



Azure Purview

Partner training day 2 – November 20, 2021

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CSA DATA/AI



Agenda

1. Create Azure Purview Account
2. Collections
3. Register and scan data sources
4. Search and browse
5. Lineage
6. Classification
7. Glossary
8. Insights (preview)
9. Power BI integration
10. MIP* integration
11. Resources

Create an Azure Purview account

- **Review deployment best practices:**
 - <https://docs.microsoft.com/en-us/azure/purview/deployment-best-practices>
 - If you need to deploy Azure Purview account in secure environment:
 - <https://docs.microsoft.com/en-us/azure/purview/catalog-private-link>
- **To create Azure Purview user account must be a member of:**
 - Contributor or Owner role in Azure Active Directory
- **The following resource providers must be registered:**
 - Microsoft.Purview
 - Microsoft.Storage
 - Microsoft.EventHub
 - How to register a resource provider: [Link](#)
 - Permissions to create resource group
- **Detailed list of prerequisites can be found [here](#)**
- **After Service deployment:**
 - Connect to Azure Purview Studio to [manage user permissions](#)
 - If you need to add account outside Azure Studio: [use this script](#)

Create an Azure Purview account

- You can deploy Azure Purview Account via:
 - [Azure Portal](#)
 - [PowerShell / CLI](#)
 - [.NET SDK](#)
 - [Python](#)
- If you deployed the Azure Purview account using a **service principal**, instead of a user account, you will also need grant the user **Collection Admin permissions on the root collection**:
 - With Azure CLI: *az purview account add-root-collection-admin*
 - [With PowerShell](#)



DEMO

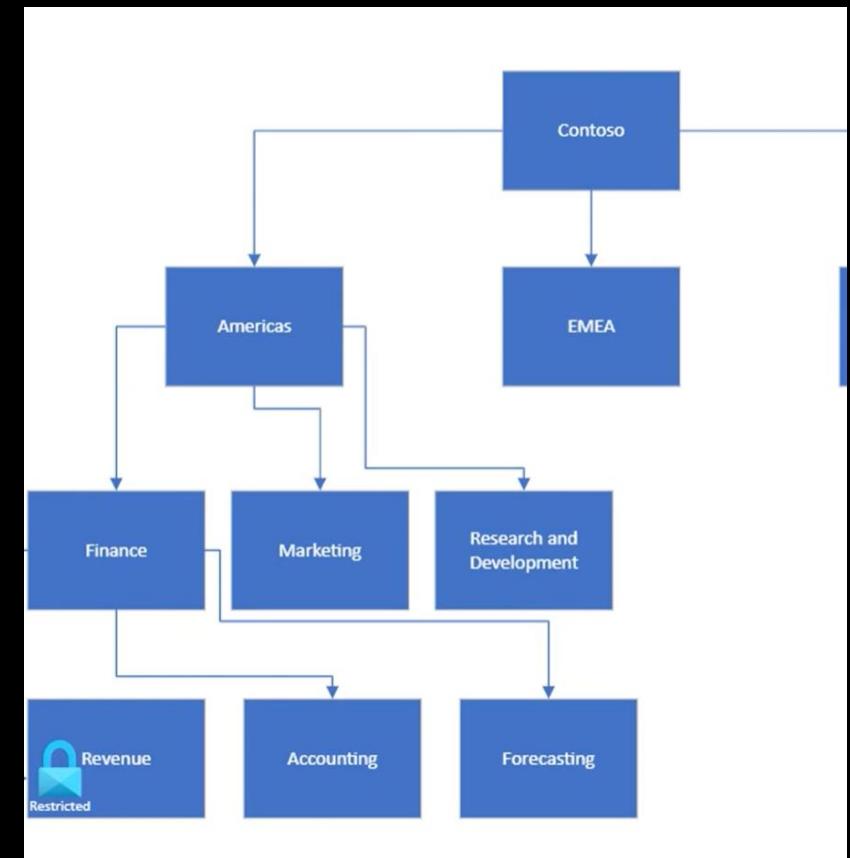
- Account creation
- Connect to Azure Purview Studio
- Collections
- Register data source
- Run a scan
- Connect to a secured collection

What is Azure Purview collection

Collections in Azure Purview can be used to **organize** assets and sources by your business's flow, but they are also the tool used to **manage access** across Azure Purview.

In order to create and manage collections in Azure Purview, you will need to be a **Collection Admin** within Azure Purview.

A user granted permissions on a collection will have access to sources and assets associated with that collection, as well as **inherit permissions** to subcollections. **Inheritance can be restricted but is allowed by default.**



	Sources Register and scan	Source management SRS, Credentials, IR, Pattern rules, External connections	Catalog Search, browse and asset details	Annotate Classification, *classification rules	Glossary	Collections Access control	Insights
Account creator All access	✓	✓	✓	✓	✓	✓	✓
Data source admin ScanRead, ScanWrite, CollectionRead	✓	✓	✗	✗	✗	READ-ONLY	✓
Collection admin CollectionRead, CollectionWrite	✗	✗	✗	✗	✗	✓	✓
Data curator DataRead, DataWrite, CollectionRead	✗	✗	✓	✓	✓	READ-ONLY	✓
Data reader DataRead, CollectionRead	✗	✗	READ-ONLY	READ-ONLY	READ-ONLY	READ-ONLY	✓

Roles

<https://docs.microsoft.com/en-us/azure/purview/catalog-permissions#roles>

- **New: Collection admins** - can edit Purview collections, their details, and add subcollections. They can also add users into other Purview roles on collections where they're admins.
- **Data source admins** - can manage data sources and data scans.
- **Data curators** - can create, read, modify, and delete catalog data assets and establish relationships between assets.
- **Data readers** - can access but not modify catalog data assets.

Understand how to use collections and roles

- **All** access control is managed in Azure Purview's collections
- Azure Purview's collections can be found in the Studio
 - If you need to add account outside Azure Studio: [use this script](#)
- When an Azure Purview account is created, it starts with a **root** collection that has the **same name as the Purview account** itself.
 - *The root collection displayed name can be changed*
- The **creator** of the Purview account is **automatically added** as a **Collection Admin**, Data Source Admin, Data Curator, and Data Reader on this root collection, and can edit and manage this collection.
- Collection **permissions are inherited automatically** from the parent collection....

Restrict Inheritance

- Isolate a child collection from parent collection at any time, by using the “Restrict Inherited Permissions” option

The screenshot shows the Microsoft Purview Collections interface. On the left, there's a navigation pane with a 'Filter resources' search bar and a tree view of collections under 'franmerDemoPurview'. The 'Secret' collection is selected and highlighted in grey. The main panel displays the 'Secret' collection details, including its type ('Purview Collection'), actions ('Add a collection', 'Edit', 'Refresh'), and tabs ('Overview', 'Role assignments'). The 'Role assignments' tab is active. A red box highlights the 'Restrict inherited permissions' toggle switch, which is currently turned on (blue). Below the tabs, there's a section for 'Collection admins' with a plus sign icon. At the bottom, a note states: 'Collection admins can edit the collection, its details, and add subcollections. They do not inherit permissions from a parent collection. Collection admins that are automatically inherited from a parent collection can be removed from the collection.' The footer of the page says 'MICROSOFT CONFIDENTIAL – NON-DISCLOSURE AGREEMENT REQUIRED'.

Design considerations

- **Each** Purview account is created with a **default root collection**
- Collections can hold data sources, scans, assets, and role assignments
- Data sources, scans, and assets can belong to **only one collection**.
- A collections hierarchy in an Azure Purview can support as many as **300 collections**, with a maximum of **8 levels of depth**
- Currently, certain operations, like **move and rename** of a collection, **aren't allowed**

API: Collections API

- <https://docs.microsoft.com/en-us/rest/api/purview/accountdataplane/collections>
 - Create or update collection
 - Delete collection
 - Get collection
 - Get collection path
 - List child collection names
 - List collections

API: Delete a collection

Minimum API version



- **DELETE {endpoint}/collections/{collectionName}?api-version=2019-11-01-preview**
- **{endpoint}** = “<https://<AzurePurviewAccountName>.purview.azure.com/account/>”

The screenshot shows the Azure Purview Studio interface. The title bar says "Azure Purview Studio". The address bar shows a URL with a red box around the parameter "collectionName" in the query string. Below the address bar is a blue header bar with the text "rDemoPurview" and a search bar labeled "Search assets". The main content area has a title "Collections" and a subtitle "Collections are groupings of sources and assets. With a collection, you can take action on all of its content at once." On the left, there's a sidebar with a "Filter resources" button and a tree view showing "franmerDemoPurview" with "Cloud Data" and "Back-End Data" expanded, and "Secret" collapsed. On the right, there's a "Back-End Data" section with a "Purview Collection" item, and buttons for "+ Add a collection", "Edit", and "Refresh". At the bottom, there are "Overview" and "Role assignments" tabs, with "Overview" currently selected.

Collection tips

If you need to share a data source to several departments

1. Register a data source a level **parent**
2. Create **child** collections for each department
3. In the **registered data source** create a scan and assign it to the right **sub-collection**

The screenshot shows two main windows from the Microsoft Purview Data Map interface.

Left Window: Registered Data Source

- AzureDataLakeStorage** (Azure Data Lake Storage Gen2)
- Actions: New scan, Edit source, Delete source, Refresh, Edit scan, Delete
- Overview tab (selected) and Scans tab
- Info message: "If you're using self-hosted integration runtime (SHIR) for scans, make sure to update SHIR 2021, the latest version will be required to successfully run new and scheduled scans." (with a See more link)
- Scans table:

Scan name	Last run status
Scan-tlk	Completed
Scan-SecretZone-In-Public-DataLake	Completed

Right Window: Scan Configuration Dialog

Scan "AzureDataLakeStorage"

- Name ***: Scan-Franmer-SubCollection
- Connect via integration runtime ***: Azure AutoResolveIntegrationRuntime
- Credential ***: Purview MSI
- Select a collection** dropdown (highlighted with a red border):
 - franmerDemoPurview > Cloud Data > Back-End Data
 - franmerDemoPurview > Cloud Data > Back-End Data
 - franmerDemoPurview > Cloud Data > Back-End Data > Secret

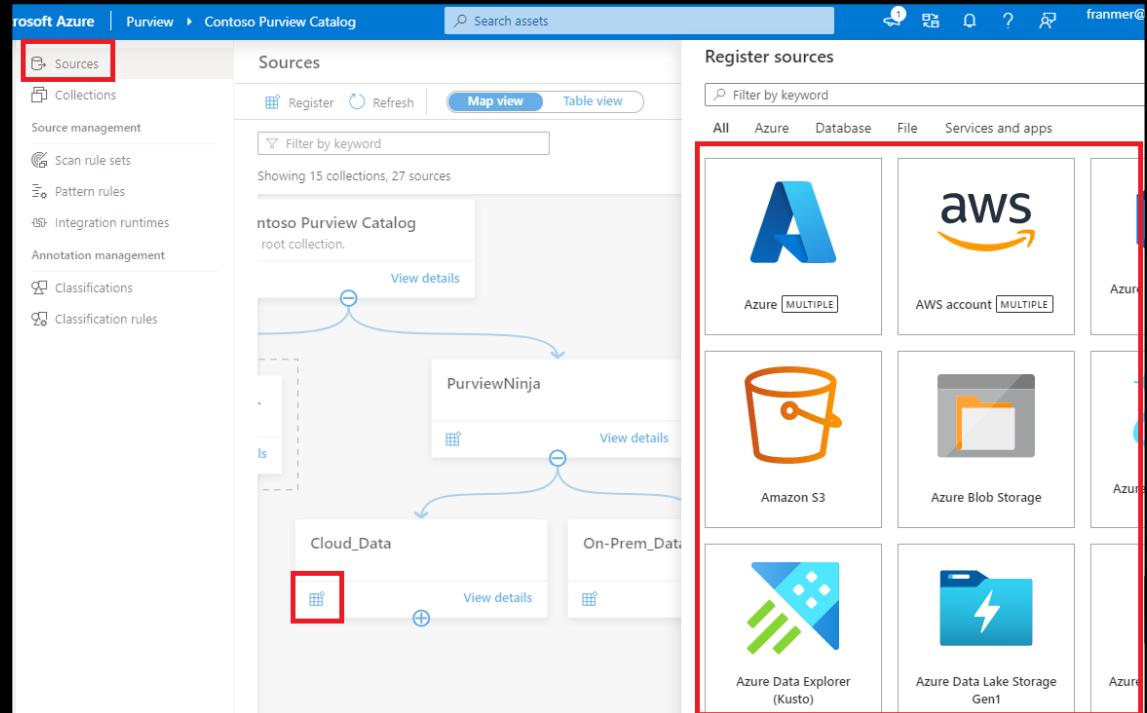
Move an asset to another collection

- Moving assets across collections is allowed if the user is granted the **Data Curator** role for the **source and destination** collections.

The screenshot shows the Power BI Data view interface for an asset named "City". The top navigation bar includes "Edit", "Refresh", "Delete", and "Open in Power BI Desktop". Below the navigation bar, there are tabs for "Overview", "Properties", "Schema", "Lineage", "Contacts", and "Related". The "Overview" tab is selected. A status message indicates the asset was updated on September 15, 2021, at 2:49 PM UTC by an automated scan. The main content area is divided into several sections: "Asset description" (No description for this asset), "Classifications" (No classifications for this asset), "Schema classifications (1)" (World Cities), "Collection path" (franmerDemo → Cloud Data → Middle-End Data), and "Hierarchy" (sqlsrvpurview.database.windows.net). A red box highlights the "Move to another collection" button in the "Collection path" section, which is part of a dropdown menu with a red arrow pointing to it.

Register data sources

- Register sources at collection level
 - But you can decide to register your source in another collection
- Give a relevant name to your data source
- *No need for credentials at this step*



Scan data sources

- After registration, you can scan your data source
- Select the collection where to send the scan result
 - Could be the collection where to click to create the scan or a child collection
 - (See [collection tips](#))
 -
- To scan a source, you need credentials:
 - Managed Identity (recommended)
 - Service Principal
 - Account Key

Scan data sources

- For sources like SQL on-prem or Teradata, "Account Key" is need. You need to use Azure Key Vault:
 - Connect Azure Key Vault to Azure Purview: documentation [here](#)
 - Grant Azure Purview to access Azure Key Vault: documentation [here](#)
 - Create a credential in Azure Purview: Documentation [here](#)

Scan data sources

- Choose the scope of your scan
 - Select all the sources or...
 - Select a specific zone:
 - Why not to create a scan for dev, another one for test,...
- Select a scan rule set
 - Select classifications to include in the scan
 - The place to add your **custom classification**

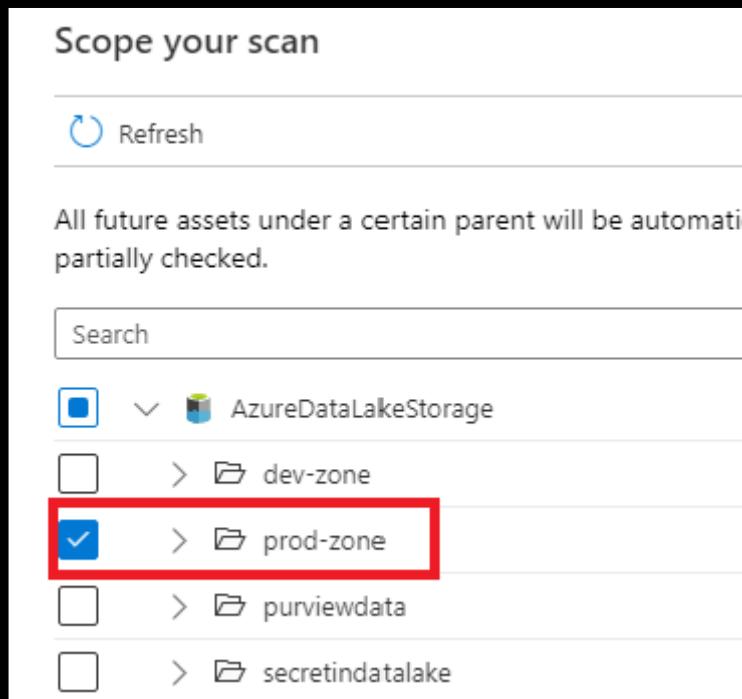
Scope your scan

Refresh

All future assets under a certain parent will be automatically partially checked.

Search

- AzureDataLakeStorage
 - dev-zone
 - prod-zone
 - purviewdata
 - secretindatalake



FranmerScanRuleSet
Latest version (updated on 09/28/21 05:17 PM)

Basics

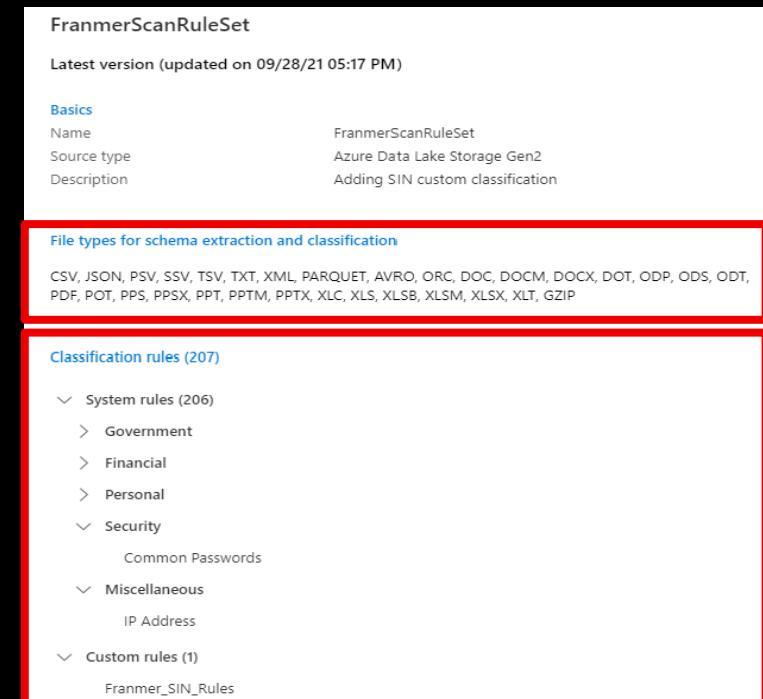
Name	FranmerScanRuleSet
Source type	Azure Data Lake Storage Gen2
Description	Adding SIN custom classification

File types for schema extraction and classification

CSV, JSON, PSV, SSV, TSV, TXT, XML, PARQUET, AVRO, ORC, DOC, DOCM, DOCX, DOT, ODP, ODS, ODT, PDF, POT, PPS, PPSX, PPT, PPTM, PPTX, XLC, XLS, XLSB, XLSM, XLSX, XLT, GZIP

Classification rules (207)

- System rules (206)
 - Government
 - Financial
 - Personal
- Security
 - Common Passwords
- Miscellaneous
 - IP Address
- Custom rules (1)
 - Franmer_SIN_Rules





DEMO

- Explore the catalog



Data catalog >

Search results for *

Source types : all

Instances : all

Clear all filters

Collection

- Franmer Demo Purview 87
- Front-End Data 68
Franmer Demo Purview > Cloud Data
- Back-End Data 41
Franmer Demo Purview > Cloud Data
- SQL Server 41
Franmer Demo Purview > On-Premise Data
- Middle-End Data 35
Franmer Demo Purview > Cloud Data
- Storage 12
Franmer Demo Purview > Cloud Data > B...
- Secret 4
Franmer Demo Purview > Cloud Data > Ba...
- Secret 2
Franmer Demo Purview > Cloud Data > Mi...

Showing 1-25 out of 290 results



PaimentInfo

Azure SQL Table

mssql://sqlsvrpurview.database.windows.net/TicketReservationDB/dbo/PaimentIn...



Customers

Azure SQL Table

mssql://sqlsvrpurview.database.windows.net/TicketReservationDB/dbo/Customer...



Report Hotel Reservation

Azure Purview Label

 Power BI Dataset<https://app.powerbi.com/groups/a1dae627-6553-4eff-be5b-1b8d1a170e6e/data...>

Rapport_Products

Azure Purview Label

 Power BI Dataset<https://app.powerbi.com/groups/a1dae627-6553-4eff-be5b-1b8d1a170e6e/data...>

Copy data

Azure Synapse Copy Activity

Copy hotel reviews from data lake to Azure SQL Database

</subscriptions/97d2f5fa-dae1-425d-8d85-0a86a8b6e8ff/resourceGroups/AzureP...>

dboCustomers.txt

Azure Data Lake Storage Gen2 Path

<https://franmerstoragepurview.dfs.core.windows.net/purviewdata/SouthBridge/...>

Search and browse

Catalog

After sources have been scanned you can search and browse your catalog

Use filter and facets to quickly find what you are looking for or discover assets



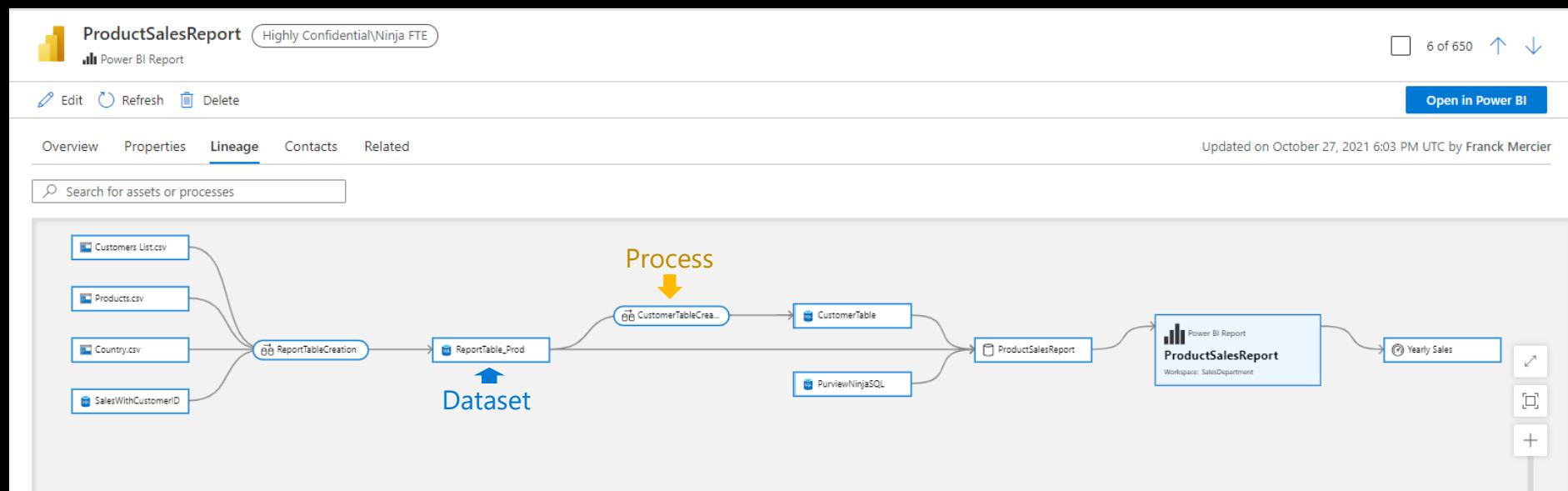
DEMO

- Lineage

Lineage

- Lineage in Purview includes datasets and processes:

- **Dataset**: A dataset (structured or unstructured) provided as an input to a process. For example, a SQL Table, Azure blob, and files (such as .csv and .xml), are all considered datasets. In the lineage section of Purview, datasets are represented by **rectangular boxes**.
- **Process**: An activity or transformation performed on a dataset is called a process. For example, ADF Copy activity, Data Share snapshot and so on. In the lineage section of Purview, processes are represented by **round-edged boxes**.



Lineage

- Supported systems:

Data processing system	Supported scope
Azure Data Factory	Copy activity Data flow activity Execute SSIS package activity Azure Purview drops lineage if the source or destination uses an unsupported data storage system.
Azure Synapse Analytics	Copy activity Data flow activity
Azure Data Share	Share snapshot
Data storage system	Supported scope
Teradata	Stored procedures
Data analytics & reporting system	Supported scope
Power BI	Datasets, Dataflows, Reports & Dashboards

Lineage

- Setup lineage:
 - Azure Data Factory (ADF):
 - Create a [new Azure Data Factory connection](#) from Azure Purview studio
 - To push lineage, [ADF used managed identity](#) => **grant the data factory's managed identity Data Curator role on Purview root collection**
 - Azure Purview drops lineage if the source or destination uses an unsupported data storage system. [See copy activity support](#).
 - Currently, data flow lineage doesn't integrate with Purview [resource set](#)
 - Full details [here](#)
 - Azure Synapse pipeline:
 - Synapse workspace's managed identity is used to authenticate lineage push operations from Synapse workspace to Purview => **Grant the Synapse workspace's managed identity Data Curator role on your Purview root collection**
 - Support Copy Data and Data Flow
 - Azure Purview drops lineage if the source or destination uses an unsupported data storage system
 - Currently, data flow lineage doesn't integrate with Purview [resource set](#)
 - Full details [here](#)

Lineage status

The screenshot shows the Microsoft Azure Data Factory interface. The left sidebar has a 'Pipeline runs' item selected, indicated by a red box. The main area displays a pipeline run for 'TrainingPipeline - Activity runs'. A modal window titled 'Lineage status details' is open, showing a status of 'Succeeded' with a green checkmark icon, also highlighted with a red box. The table below lists one activity run: 'Training Data Flow' of type 'Data flow' started at 11/4/21, 4:53:43 PM, which also has a 'Succeeded' status and a red box around its icon.

All pipeline runs > TrainingPipeline - Activity runs

TrainingPipeline

List Gantt

Rerun Rerun from activity Training Data Flow Rerun from failed activity Refresh Update pipeline

Data flow Training Data Flow

+

Activity runs

Pipeline run ID 69fb316f-b13b-421a-a1dd-56fa830d90a6

All status

Showing 1 - 1 of 1 items

Activity name	Activity type	Run start	Duration	Status	Lineage status	Error	Log
Training Data Flow	Data flow	11/4/21, 4:53:43 PM	00:04:56	✓ Succeeded			

Lineage status details

Status ✓ Succeeded

Learn more about Azure Purview integration [🔗](#)

Custom lineage

- It's possible to create custom lineage though REST API
 - Register an Azure Active Directory APP
 - Add the app as a Data Curator in the root collection
- Best place to start:
 - <https://github.com/wjohnson/pyapacheatlas>



DEMO

- Classification

Classification

- During scan, Azure Purview will also classify your assets:
 - Azure Purview provides a large set of default system classifications
 - It's possible to create custom classifications: [here](#)
- Custom classification rules can be built with:
 - Regular Expression (RegEx) rules:
 - RegEx for Social insurance Number: ^[0-9]{3} [0-9]{3} [0-9]{3}\$
 - You can use a file to generate your RegEx
 - Use a dictionary file:
 - File that contains all possible values for the classification you're creating in a single column.
- **Don't Forget to add your custom classification to a scan rule set!!**

Business Glossary

Benefits

- Understand business context associated with data in the organization
- Bulk Import glossary terms from existing data dictionaries easily
- Flexible business terms definition with custom attributes per business domain
- Browse & Search your data estate from a business lens
- Import and export features

<input type="checkbox"/>	Name	Term template	Status	Definition	Stewards	Experts	Last updated	Action
<input type="checkbox"/>	Adatum Corporation Retail Foundation	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Adatum Corporation Retail-curated Content	System default	Approved	Transactional c...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Administrative and Support and Waste Manageme...	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Advisory Services (AS)	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Ancillary	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Applied Technology (AT)	System default	Approved	Internal facing ...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Architectural and Engineering	System default	Approved	Industry involvi...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Arts, Entertainment, and Recreation	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Asset Management	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Assurance	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Assurance Professional Practice	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Audit	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Automotive	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Banking	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	BCU Datalden1	System default	Approved	dfsdfsdf	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Benefit Plan Services	System default	Approved	Delivery Unit (D...	-	-	08/27/2021 16:13	...
<input type="checkbox"/>	Business Unit (BU)	System default	Approved	Adatum Corpor...	-	-	08/27/2021 16:13	...

Business Glossary

- Establishing hierarchical business glossary to achieve the following:
 - Define parent-child relationship between terms.
 - Same term name can be created in different parents to contextualize them as per organization needs.

Glossary >

Glossary terms

+ New term Manage term templates Edit Import terms Export terms Delete Refresh List view **Hierarchical view**

Market Dev e X Term template : All Status : All Contact : All

Showing 6 terms

<input type="checkbox"/>	Name	Term template	Status	Definition	Stewards	Experts	Last updated	Action
<input type="checkbox"/>	Market Development and Sales (MDS)	System default	Approved	Internal facing ...	Mike Flasko , +1 more	Gaurav Malhotra	06/25/2021 12:27	...
<input type="checkbox"/>	Market Development and Sales - Europe	Sales Template	Approved	Internal facing ...	-	-	02/25/2021 10:49	...
<input type="checkbox"/>	Market Development and Sales - North Am...	Sales Template	Approved	Internal facing ...	-	-	02/25/2021 10:54	...
<input type="checkbox"/>	Market Development - Central US	System default	Draft	Market Develo...	-	-	02/25/2021 10:55	...
<input type="checkbox"/>	Market Development and Sales - Midwe...	System default	Draft	-	-	-	02/26/2021 15:44	...

Business Glossary

Understand business context associated with data in the organization

The screenshot shows the Microsoft Purview Data Catalog interface for the Adatum Corp glossary. The top navigation bar includes 'Microsoft Azure' and 'Purview' with a dropdown for 'Adatum Corp'. A search bar at the top right says 'Search assets'. The main content area displays the 'Market Development and Sales (MDS)' term. The term is marked as 'Approved' with a green checkmark. Below the title, there are buttons for 'Edit', 'Delete', and 'Refresh'. The 'Overview' tab is selected, while 'Related' and 'Contacts' tabs are available. The 'Formal name' is listed as 'Market Development and Sales (MDS)'. The 'Definition' section describes MDS as an internal facing Business Unit (BU) in Adatum Corporation Retail, supporting growth objectives through marketing and media channels. The 'Acronym' section notes there is no acronym for this term. A red box highlights the 'Catalog assets' section, which shows '6 assets associated with "Market Development and Sales (MDS)"' and a 'View assets' link. To the right of the term details, there are sections for 'Parent' (no parent term), 'Last updated' (08/27/2021 16:13 by Naga Krishna Yenamandra), 'Created on' (08/27/2021 16:13 by Naga Krishna Yenamandra), and 'Resources' (no resources). The top right corner shows the user's email 'nayenama@microsoft.com' and a Microsoft profile icon.

Microsoft Azure | Purview > Adatum Corp

Search assets

Data catalog > Glossary terms >

Market Development and Sales (MDS)

Term | System default

Approved

Edit Delete Refresh

Overview Related Contacts

Formal name

Market Development and Sales (MDS)

Parent

No parent term for this term

Last updated

08/27/2021 16:13 by Naga Krishna Yenamandra

Created on

08/27/2021 16:13 by Naga Krishna Yenamandra

Catalog assets

6 assets associated with "Market Development and Sales (MDS)"

View assets

Resources

No resources

Business Glossary

Flexible business terms definition per business domain

Microsoft Azure | Purview > Adatum Corp

Search assets

Data catalog >

Glossary terms

+ New term Manage term templates Edit Import terms Export terms Delete Refresh

Filter by keyword Term template : All Status : All Contact : All

Showing 114 terms

Name	Term template	Status	Definition
Adatum Corporation Retail Foundation	System default	Approved	Delivery Unit (D...
Adatum Corporation Retail-curated Content	System default	Approved	Transactional c...
Administrative and Support and Waste Manageme...	System default	Approved	Adatum Corpor...
Advisory Services (AS)	System default	Approved	Delivery Unit (D...
Ancillary	System default	Approved	Adatum Corpor...
Applied Technology (AT)	System default	Approved	Internal facing ...
Architectural and Engineering	System default	Approved	Industry involvi...
Arts, Entertainment, and Recreation	System default	Approved	Adatum Corpor...
Asset Management	System default	Approved	Adatum Corpor...
Assurance	System default	Approved	Delivery Unit (D...
Assurance Professional Practice	System default	Approved	Delivery Unit (D...
Audit	System default	Approved	Delivery Unit (D...
Automotive	System default	Approved	Adatum Corpor...
Banking	System default	Approved	Adatum Corpor...
BCU Datalden1	System default	Approved	dfsdfsdf
Benefit Plan Services	System default	Approved	Delivery Unit (D...
Business Unit (BU)	System default	Approved	Adatum Corpor...

Manage term templates

System Custom

+ New term template Refresh

You can create new term template with custom attributes and manage them here.

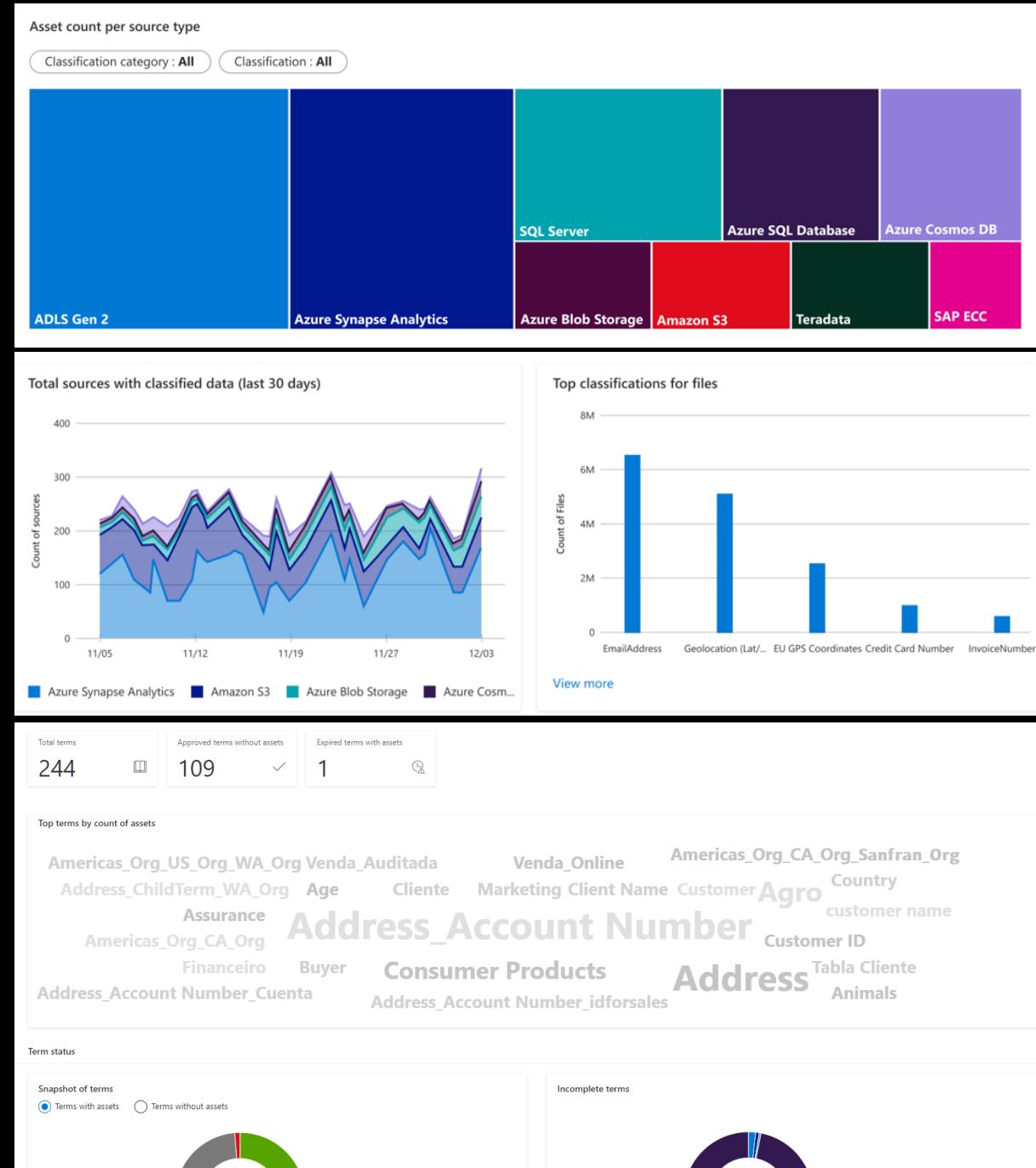
Attribute name	Field type	Description
Banking Template	Text	
Bank Location *	Single choice	
CountryDetails	Single choice	
Customer Template	Text	
Tier	Single choice	
Human Resources Template	Single choice	
MachineManufacturer	Multiple choice	
ManufacturingTemplate	Single choice	
Sales Template	Text	

OK

Data Insights

Benefits

- Intended to help users such as Chief Data Officers quickly understand their data estate at large and gain key insights such as where sensitive data resides
- Asset Insights to see where all data resides across a range of data sources. Scan Insights to track successful, failed, cancelled scans over a period. Glossary insights to understand changes made to business terms and how much coverage glossary has over your data map
- Sensitive data Insights to simplify compliance risk assessment across operational and transactional data sources. Assess risk and derive audit trails of data qualified by sensitivity and business relevance
- You can leverage API to create your own report with Power BI





DEMO

- Glossary
- Insights (preview)

Create Power BI reports with Azure Purview data

- Prerequisites
 - [Register](#) an Azure Active Directory (AAD) application
- From Power BI, use a M blank query
 - And use a query like this:

let

```
url = "https://login.microsoftonline.com/<YOUR TENANT ID>/oauth2/token",
myGrant_type = "client_credentials",
myResource = "73c2949e-da2d-457a-9607-fcc665198967", //It could also be "https://purview.azure.net"
myClient_id = "<YOUR CLIENT ID>",
myClient_secret = "<YOUR CLIENT SECRET>",

body = "grant_type=" & myGrant_type & "&resource=" & myResource & "&client_id=" & myClient_id & "&client_secret=" & myClient_secret,
tokenResponse = Json.Document(Web.Contents(url,[Headers = [{"Content-Type"]="application/x-www-form-urlencoded"}], Content = Text.ToBinary(body) ] )),
```

→ Use your AAD application to get an authentication token

```
data_url = "https://<YOUR AZURE PURVIEW ACCOUNT NAME>.scan.purview.azure.com/datasources?api-version=2018-12-01-preview",
AccessTokenHeader = "Bearer " & tokenResponse[access_token],
```

```
Source = Json.Document(Web.Contents(data_url, [Headers=[Authorization= AccessTokenHeader,"Content-Type"]="application/json"])),
value = Source[value],
#"Converted to Table" = Table.FromList(value, Splitter.SplitByNothing(), null, null, ExtraValues.Error),
in
#"Converted to Table"
```

→ Use the token to connect to Azure Purview



DEMO

- Create a Power BI report with Azure Purview data
 - https://github.com/franmer2/AzurePurviewChargeBackReport_Us

MIP* + Power BI + Azure Purview

DEFINE your MIP Labels
And policies

PROTECT asset using
MIP encryption

CREATE your Power BI
Reports and
Dashboards

SCAN, CLASSIFY
and **LABEL**
With **Azure Purview**
MIP



There is NO magic

1. Setup Power BI To [Enable MIP Sensitivity labels](#) and [Enable Apply sensitivity labels from data sources to their data in Power BI \(preview\)](#)
2. [Create and apply sensitive label](#)
3. Classify your Azure SQL and Azure Synapse [data using Azure Purview labels](#)
 1. Be careful! Still a **manual** step
4. Create your report on top of classified and labeled Azure SQL or Azure Synapse sources
 1. Today, just **import** mode is supported
 2. After first publish, refresh the dataset from Power BI Service



DEMO

- Integration with Power BI service
- Create report from protected data source



BONUS DEMO

- Use the API

Resources

- Create and manage collection:
 - <https://docs.microsoft.com/en-us/azure/purview/how-to-create-and-manage-collections>
- Best practices: collection architecture
 - <https://docs.microsoft.com/en-us/azure/purview/concept-best-practices-collections>
- Catalog permissions
 - <https://docs.microsoft.com/en-us/azure/purview/catalog-permissions>
- API
 - <https://docs.microsoft.com/en-us/rest/api/purview/accountdataplane/collections>

Resources

- Ignite 2021, what's new:
 - <https://techcommunity.microsoft.com/t5/azure-purview/what-s-new-in-azure-purview-at-microsoft-ignite-2021/ba-p/2915954>
- Azure Purview Lab:
 - <https://github.com/tayganr/purviewlab>
- Secure Azure Purview with Private link
 - <https://docs.microsoft.com/en-us/azure/purview/catalog-private-link>