



Power BI Announcements: Microsoft Fabric, A Goblin Guide

Ingest & Transform



DIRECT LAKE

- Connect to *OneLake*
- Scan Delta format (parquet files)
- High performance of Import
- Data freshness of Direct Query
- *No dataset load/refresh* required



ONELAKE EXPLORER

- OneLake shortcut on desktop
- Integrates OneLake with Windows file explorer to easily add files to OneLake with drag & drop
- "Like OneDrive for Data"



SINGLE COPY & SHORTCUTS

- One lake for entire organization
- One copy of data for multiple apps
- Shortcuts to other Data Lake storage locations virtualize & make it seem they are in OneLake



DATAFLOWS GEN2

- Improved performance
- Autosave & enhanced monitoring
- Select output destination
- Create Delta format files in OneLake
- Delphix automated compliance (data obfuscation)



MONGODB CONNECTOR

- Public preview
- Connect to MongoDB from PBI



DEFAULT DATASETS

- Power BI datasets created for Datamart, Warehouse, Lakehouse
- Use Direct Lake connection mode
- Quickly explore data & make reports
- OneLake create dataset experience



REAL-TIME REPORTING

- Report on Kusto Query Language (KQL) Queryset from a KQL db
- Real-time streaming with EventHubs and Direct Lake (since Power BI can read the data without a refresh)



WRITE-BACK-LIKE SUPPORT

- Direct Lake allows you to instantly see changes in OneLake.
- Get write-back-like experiences with Data Science notebooks & other tools using Semantic Link



COPILOT

- AI-driven transformations
- Integration with other Copilots
- Suggested transformations



Model & Analyze



.PBIP FORMAT

- Power BI Project file format
- Save .pbix as readable folder
- .PBIR (Report), .PBIDATASET
- For Source Control & collaboration
- Support all XMLA write operations



MODEL ON THE WEB

- Data modeling experience in web
- Already in preview before Build
- Power BI is moving to Delta as the native storage format
- Source control & commits from web



ONESECURITY

- Define Data security (RLS/OLS) at source in OneLake
- Single security across all compute



GIT INTEGRATION

- 2-way integration with PBI Service
- Configure with Azure DevOps Repos
- Easier collaboration and management of changes in model
- Full Source Control vision
- "Developer mode"



SEMANTIC MODEL VIEW

- Organize model objects by type
- Matrix-like folder structure
- Shows count of objects
- See perspectives & calc. groups



AUTHOR CALC. GROUPS

- Create new calculation groups
- View and edit calc. item DAX
- Calc group icon on Ribbon



DAX QUERY VIEW

- New page like 'Data view'
- Author & view DAX queries
- Tooltips show DAX of measures
- Define & develop measures
- Copilot DAX assistance / enhanced
- View, copy, interact with results
- Quick queries from data pane (i.e., for measures or top 100 rows)
- Find and replace for DAX
- Improved formula bar DAX UX



INSPECT VISUALS

- Quickly grab DAX query from visual
- Works with cross-filtering; brings along the filters
- Inspect an individual data point



HYBRID TABLES GA

- Incremental refresh type
- Partition some data import, some as DirectQuery (real-time)
- Generally available



COPILOT

- AI-driven DAX code & queries
- Natural language interactions all inside of the DAX formula bar
- AI suggestions and discussion
- Supports multiple languages



Visualize



PAGINATED DRILLTHRU

- Drillthrough experience for paginated reports
- SSRS-like feature



COPILOT

- AI-driven report creation
- Suggests prompts based on data
- Gives summaries of data/report
- Suggest decisions & actions
- Visual Copilot like super-smart narratives; includes references



Deploy

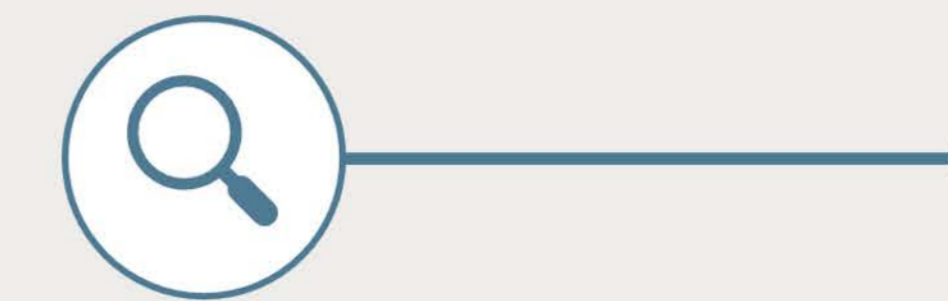


CI/CD SUPPORT

- Pro Developer experience
- Supported by PBIP, TMDL formats
- 2-way integration with PBI service
- Support pro/enterprise deployment scenarios more easily
- Deployment pipelines part of "Developer experience/mode"

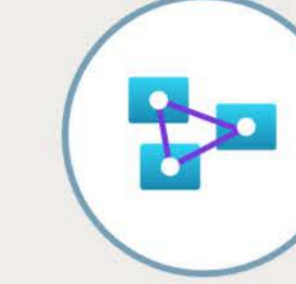


Govern & Manage



AAS MIGRATION EXP.

- Migrate AAS to Fabric
- Generally available
- Take AAS models straight to Fabric



ONELAKE DATA HUB

- Re-branding of Data Hub exp
- Available in Power BI Service navigation pane (left side)
- Explorer for data discoverability



MONITORING HUB

- New hub to track activities
- View refreshes and activities for data artifacts
- Datasets, dataflows, Datamarts
- Also lakehouse, spark job def'n, data pipelines, notebooks



ADMIN MONITORING WS

- Admin workspace
- Feature usage and adoption metrics
- Purview hub for item metrics
- Visual details on activities, items
- Datasets you can consume



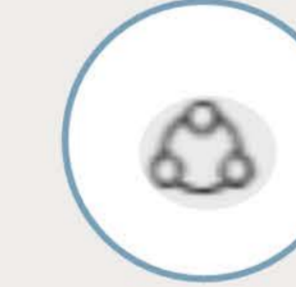
LINEAGE, ENDORSEMENT

- Extended across new item types
- Lineage: Impact analysis for Fabric i.e. see what report using what lakehouse, pipeline, etc.
- Endorsement: label quality content for better discoverability



DOMAINS

- Organize data / artifacts in verticals
- Different domains for different departments or business entities
- More functional way of governing & stratifying governance in the org.



TENANT SETTINGS API

- Get Fabric Tenant settings with API



Consume & Take Action



DATA ACTIVATOR

- New no-code tool
- Focus on going from data to action
- Monitor data in Fabric, Power BI
- Automate actions, alerts at scale



DATA SCIENCE & SEMANTIC LINK

- Semantic Link: New feature for tight integration with BI / Data Science
- SemPy Python Library access PBI dataset
- Query PBI datasets with Python/Spark
- Explore data in Power BI from notebooks
- Writeback is simple with Direct Lake



COPILOT

- Interactive experiences in reports
- Ask questions about data
- Make suggestions & recommendations
- Integration with other Copilots



COPILOT PLUGINS

- Create your own AI-driven data consumption experiences
- Interrogate data from other places like Teams with natural language
- Adjust to your needs & use-cases

