What You Can Learn from the Power BI Activity Log & REST APIs

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Microsoft Data Platform MVP

Co-author: Planning a Power BI Enterprise Deployment whitepaper

Author: Power BI migration documentation

Power BI Deployment & Governance Workshop

10 live sessions over 5 weeks

Governance | Data Culture | Center of Excellence | Architecture | Deployment
Trustworthiness | Security | Data Protection | Adoption | Administration

CoatesDS.com/workshop

Agenda

What You Can Learn from the Power BI Activity Log & REST APIs

What & Why
Why we need Power BI metadata

How
Technical overview & demos
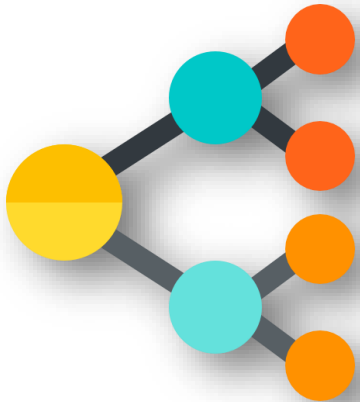
Getting Started
Tips for getting started

Q&A
Wrap-up & open Q&A

Where to Download Materials

Slides + Jupyter Notebook for Demos:
CoatesDS.com/presentations/#What-You-Can-Learn-From-Power-BI-Activity-Log

Power BI End-to-End Diagram:
CoatesDS.com/diagrams

Scope of this Session
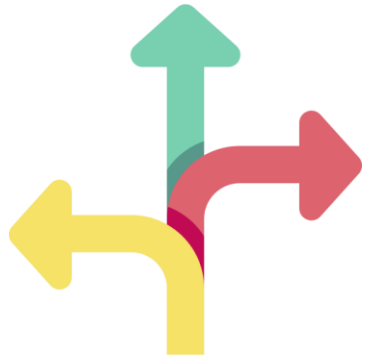
Main focus:

- Querying metadata from the Power BI Service and Data Gateway Service
- Understanding the kinds of metadata you can retrieve related to usage patterns and activities in the Power BI Service

Out of scope:

- Updating & managing the Power BI Service or Data Gateway
- XMLA endpoint
- Power BI Embedded
- Power BI Report Server
- PowerShell modules contributed by the community
- Microsoft 365 Management API
- Older PowerShell cmdlet (Search-UnifiedAuditLog)

Minimal scope:

- Exact PowerShell script syntax & techniques
- Installation & setup
- Permissions setup & requirements

Demos You'll See in this Session
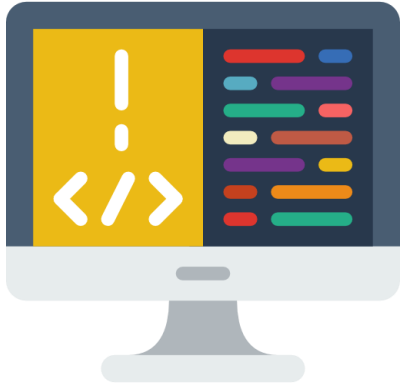
Demos are using:

- PowerShell 7.1.2 (Core) running on Windows 10 machine
- Azure Data Studio Notebook
- Azure Data Studio PowerShell Extension
- Azure Data Studio .NET Interactive Kernel for PowerShell Extension

PowerShell scripts:

- All scripts are demo snippets which are not production-ready
- The examples are realistic, but highly simplified for learning purposes
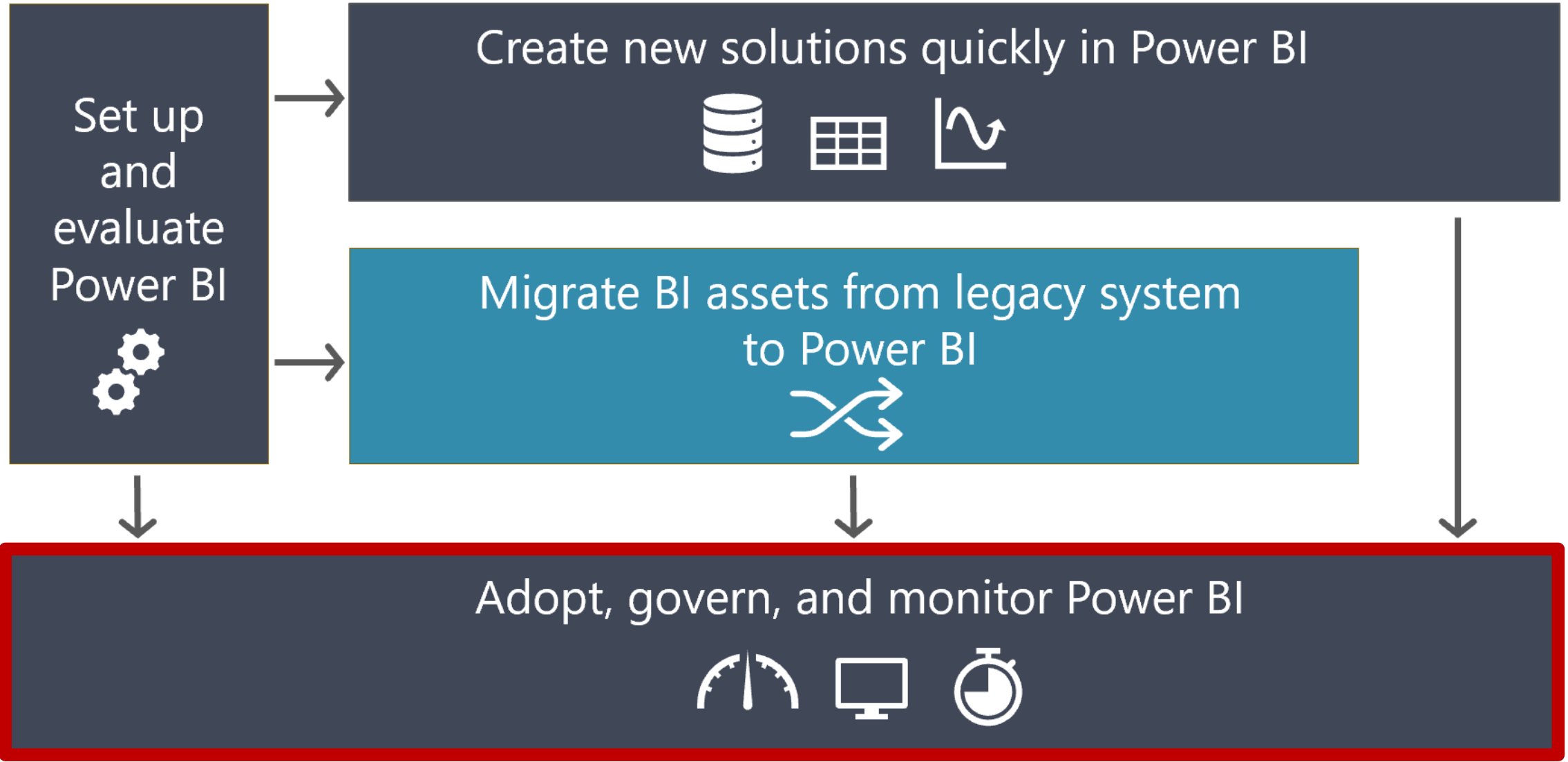
What & Why

Why we need
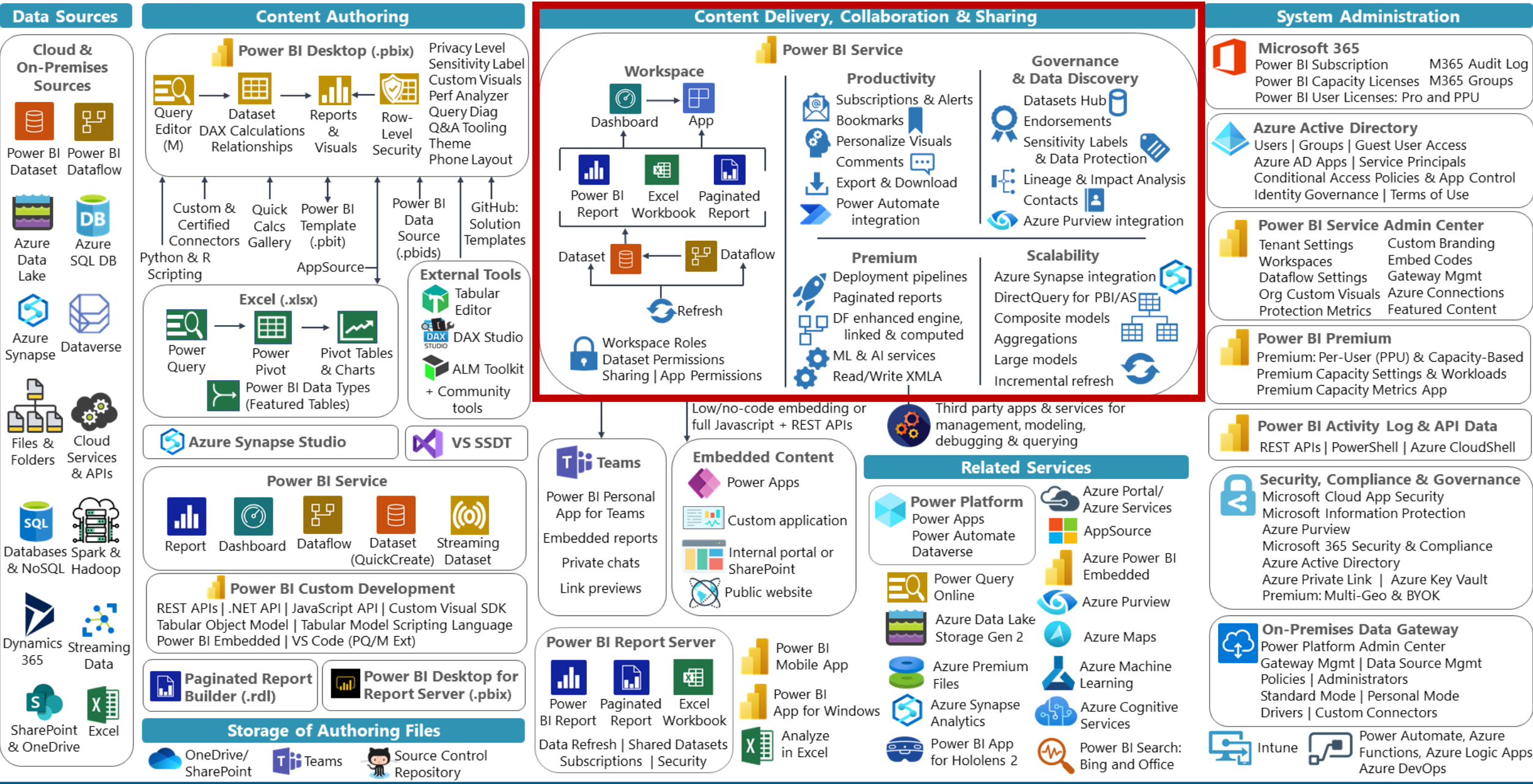Power BI metadata

Adoption, Governance & Monitoring

Set up and evaluate Power BI

Create new solutions quickly in Power BI

Migrate BI assets from legacy system to Power BI

Adopt, govern, and monitor Power BI

Power BI End-To-End: Top Features, Key Integration Points & Related Services
Last Updated: January 4, 2021

Coates Data Strategies

Data Sources

Cloud & On-Premises Sources

- Power BI Dataset
- Power BI Dataflow
- Azure Data Lake
- Azure SQL DB
- Azure Synapse
- Dataverse
- Files & Folders
- Cloud Services & APIs
- Databases & NoSQL
- Spark & Hadoop
- Dynamics 365
- Streaming Data
- SharePoint & OneDrive
- Excel

Content Authoring

Power BI Desktop (.pbix)

- Query Editor (M)
- Dataset DAX Calculations Relationships
- Reports & Visuals
- Row-Level Security

Privacy Level
Sensitivity Label
Custom Visuals
Perf Analyzer
Query Diag
Q&A Tooling
Theme
Phone Layout

- Custom & Certified Connectors
- Quick Calcs Gallery
- Power BI Template (.pbit)
- Power BI Data Source (.pbids)
- GitHub: Solution Templates

Python & R Scripting
AppSource

Excel (.xlsx)

- Power Query
- Power Pivot
- Pivot Tables & Charts
- Power BI Data Types (Featured Tables)

External Tools

- Tabular Editor
- DAX Studio
- ALM Toolkit
- + Community tools

Azure Synapse Studio

VS SSDT

Power BI Service

- Report
- Dashboard
- Dataflow
- Dataset (QuickCreate)
- Streaming Dataset

Power BI Custom Development

REST APIs | .NET API | JavaScript API | Custom Visual SDK
Tabular Object Model | Tabular Model Scripting Language
Power BI Embedded | VS Code (PQ/M Ext)

- Paginated Report Builder (.rdl)
- Power BI Desktop for Report Server (.pbix)

Storage of Authoring Files

- OneDrive/ SharePoint
- Teams
- Source Control Repository

Content Delivery, Collaboration & Sharing

Power BI Service

Workspace

- Dashboard
- App
- Power BI Report
- Excel Workbook
- Paginated Report
- Dataset
- Dataflow
- Refresh

Workspace Roles
Dataset Permissions
Sharing | App Permissions

Productivity

- Subscriptions & Alerts
- Bookmarks
- Personalize Visuals
- Comments
- Export & Download
- Power Automate integration

Governance & Data Discovery

- Datasets Hub
- Endorsements
- Sensitivity Labels & Data Protection
- Lineage & Impact Analysis
- Contacts
- Azure Purview integration

Premium

- Deployment pipelines
- Paginated reports
- DF enhanced engine, linked & computed
- ML & AI services
- Read/Write XMLA

Scalability

- Azure Synapse integration
- DirectQuery for PBI/AS
- Composite models
- Aggregations
- Large models
- Incremental refresh

Low/no-code embedding or full Javascript + REST APIs

Third party apps & services for management, modeling, debugging & querying

Teams

Power BI Personal App for Teams
Embedded reports
Private chats
Link previews

Embedded Content

- Power Apps
- Custom application
- Internal portal or SharePoint
- Public website

Related Services

Power Platform
Power Apps
Power Automate
Dataverse

- Power Query Online
- Azure Data Lake Storage Gen 2
- Azure Premium Files
- Azure Synapse Analytics
- Power BI App for Hololens 2
- Azure Portal/ Azure Services
- AppSource
- Azure Power BI Embedded
- Azure Purview
- Azure Maps
- Azure Machine Learning
- Azure Cognitive Services
- Power BI Search: Bing and Office

Power BI Report Server

- Power BI Report
- Paginated Report
- Excel Workbook

Data Refresh | Shared Datasets
Subscriptions | Security

- Power BI Mobile App
- Power BI App for Windows
- Analyze in Excel

System Administration

Microsoft 365
Power BI Subscription
Power BI Capacity Licenses
Power BI User Licenses: Pro and PPU
M365 Audit Log
M365 Groups

Azure Active Directory
Users | Groups | Guest User Access
Azure AD Apps | Service Principals
Conditional Access Policies & App Control
Identity Governance | Terms of Use

Power BI Service Admin Center
Tenant Settings
Workspaces
Dataflow Settings
Org Custom Visuals
Protection Metrics
Custom Branding
Embed Codes
Gateway Mgmt
Azure Connections
Featured Content

Power BI Premium
Premium: Per-User (PPU) & Capacity-Based
Premium Capacity Settings & Workloads
Premium Capacity Metrics App

Power BI Activity Log & API Data
REST APIs | PowerShell | Azure CloudShell

Security, Compliance & Governance
Microsoft Cloud App Security
Microsoft Information Protection
Azure Purview
Microsoft 365 Security & Compliance
Azure Active Directory
Azure Private Link | Azure Key Vault
Premium: Multi-Geo & BYOK

On-Premises Data Gateway
Power Platform Admin Center
Gateway Mgmt | Data Source Mgmt
Policies | Administrators
Standard Mode | Personal Mode
Drivers | Custom Connectors

- Intune
- Power Automate, Azure Functions, Azure Logic Apps, Azure DevOps

What Can We Do With Power BI Metadata?

1. Adoption & usage patterns

2. Architecture overview & inventory

3. Governance, security & compliance

4. Support & user education

Adoption

Activity & System Usage *Only*
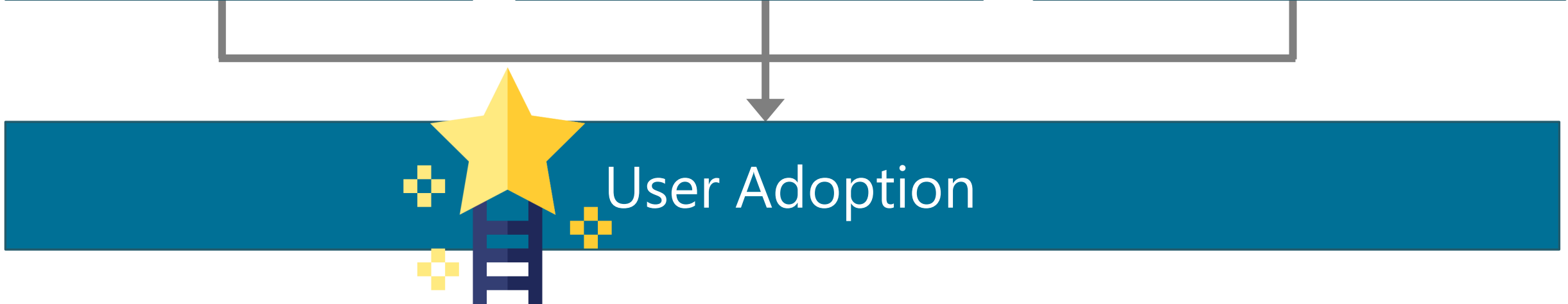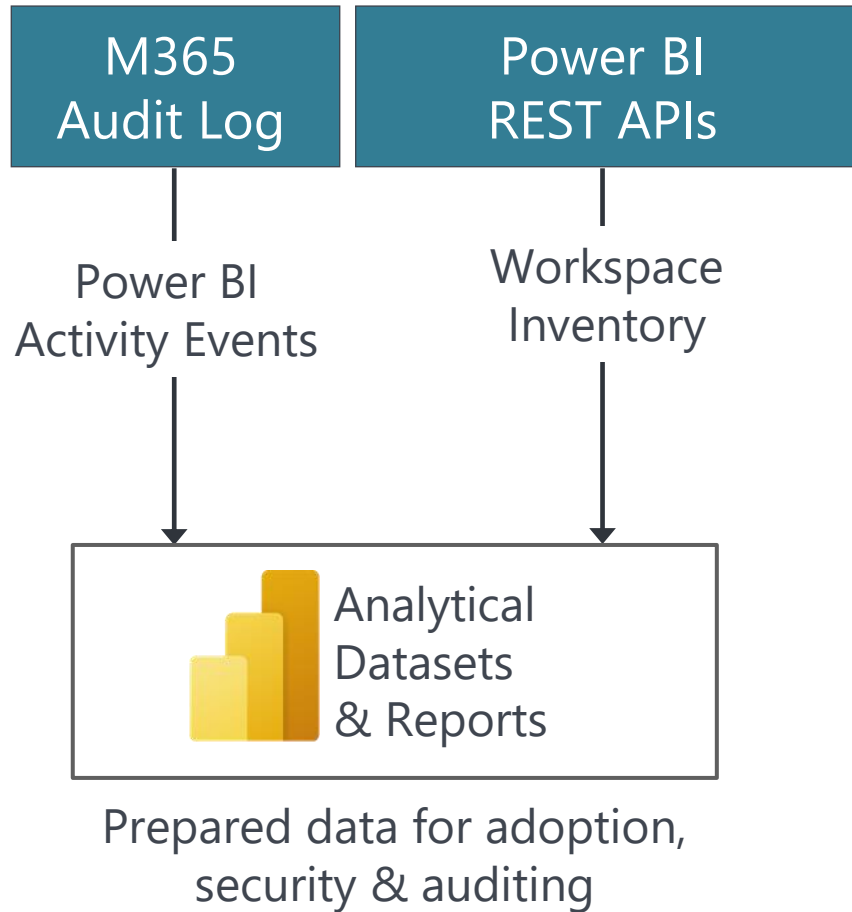
Defining User Adoption

Using the technology…

Routinely as part of job role	As it was intended to be used	In an optimal way to its fullest extent

User Adoption

① Adoption & Usage Patterns

Subcategories of adoption monitoring & measurement:

1a Usage & consumption

1b Data trustworthiness

1c User experience & usability

1d Learning & continual improvement

1e Organizational awareness & engagement

This data originates outside of Power BI so we won't focus on it in this session

1 Adoption & Usage Patterns

1a Usage & consumption

Content views (reports, dashboards, apps, workspaces) –or– users

Top n Popular content

#/% of content with active usage

#/% of content with frequent usage

#/% of underutilized content

#/% of usage increasing MoM/QoQ

User activity & license usage

#/% of users who actively publish content

#/% of users with underutilized license

Create common definitions to apply to all metrics:
Active = every month
Frequent = every week
Inactive or Underutilized = not in 3 months

1 Adoption & Usage Patterns

1b Data trustworthiness

Certified content

Ratio of datasets to reports

#/% of certified datasets

#/% of certified dataflows

#/% of certified reports

#/% of certified apps

1c User experience & usability

Ensuring optimal experience

% of refresh success for certified datasets & dataflows

#/% unused objects in workspace

% uptime for gateway cluster

2 Architecture Overview & Inventory

of workspaces, by type

# of reports, by type

# of dashboards

# of datasets

# of dataflows

# of users, by active/inactive

Gateways in use

Data sources in use

Premium capacities in use

Consider storing this type of data as snapshots over time, so you can do trending.

Combining point-in-time snapshots along with the activity log events provides a full picture.

3 Governance, Security, Auditing, Compliance

Workspace security by role

Security snapshots for users & groups

Security activity/changes

Security after user role or dept changes

Licensing snapshots at point in time

License usage / non-usage

External user activities

Power BI administrator activities

Datasets/dataflows owned by a user who is no longer active or has transferred

Contacts for a user who is no longer active or has transferred

Activity data should be accumulated for at least a year or two

Situations we want to minimize

Significant sharing from My Workspace

Significant report views from My Workspace

Many datasets published by the same author

Build permissions exists for a lot of users on a dataset which is not certified

High report views based on content which is not certified

Frequent data refresh failures

Significant use of unsanctioned data sources

Significant & recurring exports to Excel

Significant & recurring printing

Unexpected use of subscriptions

Consider contacting users when you see certain activities happening & directing them to helpful information

What Can We Do With Power BI Metadata?

1. Adoption & usage patterns
2. Architecture overview & inventory
3. Governance, security, auditing & compliance
4. Support & user education

How

Technical overview
& demos

Basic Power BI Auditing Solution

M365 Audit Log	Power BI REST APIs

Power BI
Activity Events

Workspace
Inventory

Analytical
Datasets
& Reports

Prepared data for adoption,
security & auditing

End-To-End Power BI Auditing Solution

M365 Audit Log	Power BI REST APIs		MSFT Graph REST APIs				Gateway Servers
Power BI Activity Events	Workspace Inventory & Security	Gateways & Data Sources	Apps, Capacities etc.	User Info & Service Prin	Group Memberships	Power BI Licenses	Power BI Admins	Gateway Logs

Scheduled Data Extraction Scripts

Data Lake, Storage Acct, or File System → **Auditing DB or Curated Files Area** → **Analytical Datasets & Reports** ⇢ Accessed by users (RLS)

Raw data:
Original JSON files

Accessed only by auditors & administrators

Curated & prepared data:
Historical transactions &
point-in-time snapshots

Reporting & analysis
for adoption, security
& auditing

This data is used for both:
User adoption
--plus--
Auditing & monitoring

Two Common Ways to Get Data Programmatically

PowerShell Modules

Power BI Management Module

Data Gateway Module

REST APIs

Power BI Admin REST APIs

Power BI User APIs

Power BI Embedding APIs

Power BI Management Module

Description	Module Name	Common Cmdlets
Rollup module	MicrosoftPowerBIMgmt	N/A (just a manifest)
Profile module	MicrosoftPowerBIMgmt.Profile	Connect-PowerBIServiceAccount Disconnect-PowerBIServiceAccount Invoke-PowerBIRestMethod
Admin module	MicrosoftPowerBIMgmt.Admin	Get-PowerBIActivityEvent
Capacities module	MicrosoftPowerBIMgmt.Capacities	Get-PowerBICapacity
Data module	MicrosoftPowerBIMgmt.Data	Get-PowerBIDataset Get-PowerBIDataSource Get-PowerBIDataflow
Reports module	MicrosoftPowerBIMgmt.Reports	Get-PowerBIReport Get-PowerBIDashboard
Workspaces module	MicrosoftPowerBIMgmt.Workspaces	Get-PowerBIWorkspace

Supported for:

Windows PowerShell 3.0+

Or

PowerShell Core 6.0+

PowerShell Gallery: https://www.powershellgallery.com/packages/MicrosoftPowerBIMgmt
Cmdlets Reference: https://docs.microsoft.com/en-us/powershell/power-bi/overview
GitHub: https://github.com/microsoft/powerbi-powershell

Data Gateway Module

Description	Module Name	Common Cmdlets
Rollup module	DataGateway	Get-DataGatewayCluster Get-DataGatewayClusterStatus Get-DataGatewayClusterDataSource Get-DataGatewayClusterDataSourceStatus Get-DataGatewayClusterDataSourceUser Get-DataGatewayInstaller Get-DataGatewayTenantPolicy
Profile module	DataGateway.Profile	Connect-DataGatewayServiceAccount Disconnect-DataGatewayServiceAccount Resolve-DataGatewayError

Supported for:
PowerShell Core 7.0+

PowerShell Gallery: https://www.powershellgallery.com/packages/DataGateway

Cmdlets Reference: https://docs.microsoft.com/en-us/powershell/gateway/overview

Power BI REST APIs

Operation Groups	
Admin	Embed Token
Apps	Gateways
Available Features	Groups
Capacities	Imports
Dashboards	Push Datasets
Dataflow Storage Accounts	Reports
Dataflows	Template Apps
Datasets	Users

REST API Reference: https://docs.microsoft.com/en-us/rest/api/power-bi/

Power BI Activity Log: https://docs.microsoft.com/en-us/power-bi/admin/service-admin-auditing

How the APIs are Named

Type of API	Example API	Scope
User	Get Report	My workspace – one report
User	Get Reports	My workspace – all reports
User	Get Report in Group	One workspace – one report
User	Get Reports in Group	One workspace – all reports
Admin	Get Reports as Admin	Organization – all reports
Admin	Get Reports in Group as Admin	One workspace – all reports

User API   = based on permissions of the executing user or service principal
Admin API = requires Power BI admin/organization-level permissions

Calling the Power BI REST API from Management Module

Simplest way to handle authentication:

①

Cmdlet from Power BI Management Module:

Connect-PowerBIServiceAccount

→

②

Cmdlet from Power BI Management Module:

Invoke-PowerBIRestMethod

→

③

Standard PowerShell Functionality:

Data parsing, exporting, etc…

⬇⬆

URL for Power BI REST API
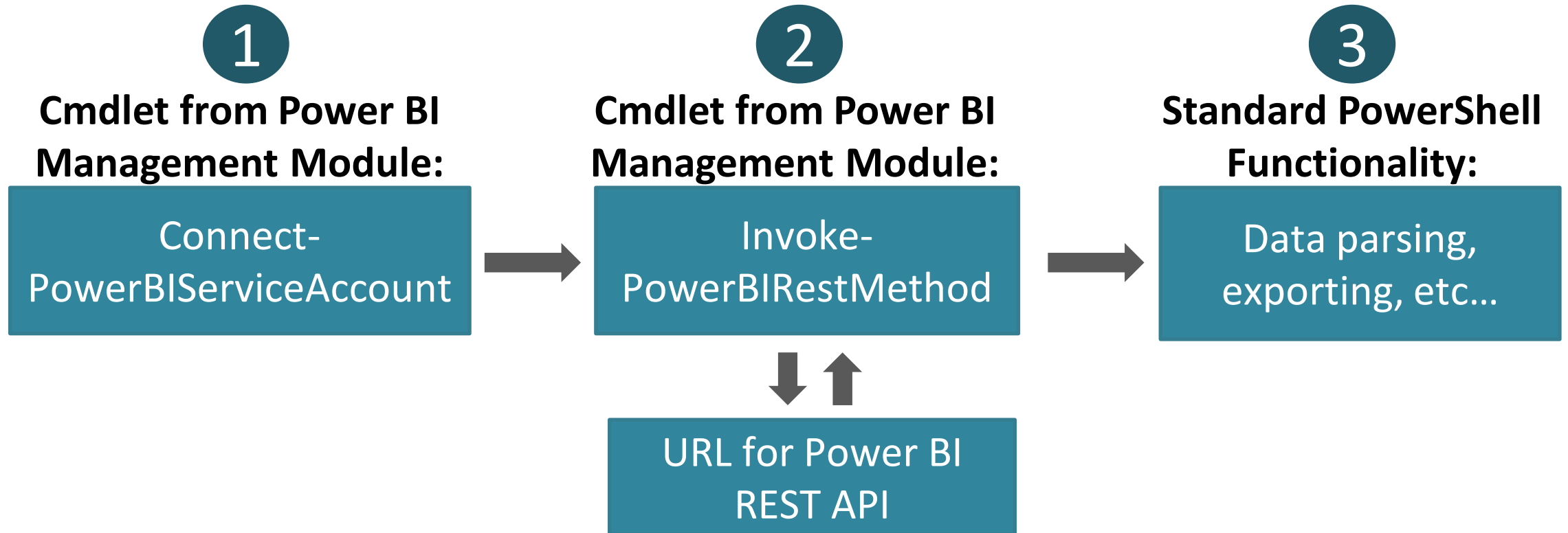
```
https://api.powerbi.com/v1.0/myorg/admin/Groups?$top=5000&
$expand=datasets,dataflows,reports,dashboards,workbooks,users
```

PowerShell-Specific Syntax

1

Cmdlet from Power BI Management Module:

Connect-PowerBIServiceAccount

2

Cmdlet from Power BI Management Module:

Invoke-PowerBIRestMethod

URL for Power BI REST API

3

Standard PowerShell Functionality:

Data parsing, exporting, etc…

```
https://api.powerbi.com/v1.0/myorg/ admin/Groups?%24top=5000&
%24expand=datasets,dataflows,reports,dashboards,workbooks,users
```

Summary of Ways We Can Get Data

Method of Authentication	PowerShell Cmdlets	API Requests
Power BI Management Module	Various cmdlets (ex: Get-PowerBIWorkspace)	Invoke-**PowerBI**RestMethod
OAuth2	N/A	Invoke-RestMethod

Advantages of PowerShell Cmdlets:
- ✓ Easier to get started
- ✓ Handles things like pagination automatically
- ✓ Output more human readable by default

Advantages of API Requests:
- ✓ A lot more data is available
- ✓ Displays newer data faster
- ✓ One less layer of obfuscation if language/tool flexibility is desirable

Power BI Activity Events

Common Examples of Activity Events		
Add Content: Create App Create Folder (workspace) Create Report	**Delete Content:** Unpublish App Delete Folder (workspace) Delete Report	**Edit Content:** Edit Dataset Update Dataflow Rename Dashboard
View Content: View Report Analyze In Excel Analyzed by External Application	**Export Content:** Download Report Export Report Export Artifact	**Refresh Content:** Refresh Dataset Set Scheduled Refresh Request Dataflow Refresh
Security: Create Group (workspace) Generate Embed Token Create Email Subscription	**Manage Content:** Edit Certification Permission Sensitivity Label Applied Assign Workspace to Pipeline	**Administration**: Migrate Workspace Into Capacity Update Gateway Upgrade Workspace

Activity Log Reference: https://docs.microsoft.com/en-us/power-bi/admin/service-admin-auditing

Activity Log Examples: https://docs.microsoft.com/en-us/power-bi/guidance/admin-activity-log

Power BI Activity Events

Several ways to get the detailed activity events:

- PowerShell cmdlet: Get-PowerBIActivityEvent ⬅ **First choice: easiest**
- Power BI REST API: Get Activity Events API ⬅ **Second choice**
- Microsoft 365 Compliance Center: unified audit log search
- Microsoft 365 Management API
- Microsoft Cloud App Security *(if MCAS is integrated with Power BI Service)*
- PowerShell cmdlet: Search-UnifiedAuditLog *(shouldn't be used anymore)*
- A 3rd party solution such as Power BI Sentinel

Activity Log Reference: https://docs.microsoft.com/en-us/power-bi/admin/service-admin-auditing
Activity Log Examples: https://docs.microsoft.com/en-us/power-bi/guidance/admin-activity-log
Activity Events API: https://docs.microsoft.com/en-us/rest/api/power-bi/admin/getactivityevents

Getting Started

Tips for
getting started

Getting Started Tips

Decide what is most important to measure. Considerations:

- What does **success** mean?
- What behavior do you want to **encourage**?
- What do you want people to **start** doing?
- What do you want people to **stop** doing?

Getting Started Tips

Decide how you want to handle authentication:

- A domain account (could be a service account) who is granted Power BI administrator rights. And/or

- Service principal (aka Azure AD app). This is considered a better security practice, but not all admin APIs are supported yet.

Getting Started Tips

Start storing the activity log data right away if you aren't already.

Plan to accumulate history of at least 2 years to measure adoption, trends, changes, as well as for auditing purposes.

Getting Started Tips

Consider accumulating workspace snapshots on a regular basis (ex: weekly). For large tenants, this needs to be done efficiently to minimize # of API calls. Options:

- Get-PowerBIWorkspace cmdlet from the Power BI Management Module with the –Include All parameter
- The admin groups API with the $expand parameter
- New GetModifiedWorkspaces API

Getting Started Tips

Extract the **original raw data** without any filters or formatting.

Since new events arrive regularly, use JSON format to allow for a flexible schema since new auditing attributes are introduced regularly.

Getting Started Tips

Retain the **original raw data** files in a secure location. Preferably an immutable location which allows no modifications or deletions.

This allows you to:

- Accommodate new attributes with a flexible schema
- Re-parse the data when you become aware of new auditing data, or if you want to reload
- Rely on this data for formal auditing if required

Getting Started Tips

Use the data regularly enough to know what your "normal" is. This allows you to recognize fairly quickly when something unusual begins to occur so you can take action.

This works best when:
- The Power BI administrator has a thorough understanding of how the system is used, and
- Time is allocated for & understanding the data

Getting Started Tips

Release reports based on the curated/prepared data for users in the business units to help them understand the impact of their solutions. Incorporate row-level security if necessary.

The built-in usage metrics reports are helpful, but the dataset we create can be far more powerful.

Wrap-Up

The Importance of Power BI Metadata

The Power BI metadata from the Activity Log and the REST APIs are critical for:

- ✓ Monitoring adoption efforts
- ✓ Understanding usage patterns of content
- ✓ User support, education, and identifying training opportunities
- ✓ Identifying suspicious usage patterns
- ✓ Change tracking
- ✓ Documenting the architecture & objects deployed to Power BI
- ✓ Internal & external auditing support
- ✓ Monitoring data trustworthiness levels
- ✓ Tracking effectiveness of license usage
- ✓ Governance, auditing & oversight activities

Q&A

Finding More Info from Melissa

Slides: CoatesDS.com/Presentations

Diagrams: CoatesDS.com/Diagrams

Blog: CoatesDS.com/Blog-Posts

Videos: YouTube.com/c/CoatesDataStrategies

Twitter: @CoatesDS | @SQLChick

Governance Training: CoatesDS.com/Workshop

Release Plan Items to Watch

Azure Monitor Integration

https://docs.microsoft.com/en-us/power-platform-release-plan/2020wave2/power-bi/azure-monitor-integration

Connect to a Log Analytics workspace for long-term storage. First priority for the public preview: queries & processing operations from query engine.

Custom visual monitoring

https://docs.microsoft.com/en-us/power-platform-release-plan/2020wave2/power-bi/power-bi-custom-visual-monitoring-administrators

Monitor which users, reports or dashboards are using a custom visual.

Release Plan Items to Watch

Data lineage, impact, and API enhancements

https://docs.microsoft.com/en-us/power-platform-release-plan/2021wave1/power-bi/data-lineage-impact-api-enhancements

Asyncronous admin APIs to efficiently scan Power BI artifacts & lineage.

Incremental admin API to only scan workspaces changed since last API call.

Embedding Power BI into a Jupyter notebook

https://docs.microsoft.com/en-us/power-platform-release-plan/2020wave2/power-bi/embed-power-bi-jupyter-notebook

Learning Resources

Just Thorning Blindbæk

https://justb.dk/blog/2021/02/extracting-the-power-bi-activity-log-with-data-factory/

Extracting the Power BI activity log data using Azure Data Factory. Be sure to use the version (at the bottom) to send raw data to a storage account, rather than parsing directly to a DB table (goal is to avoid losing any data).

Tom Martens

https://www.minceddata.info/2021/01/03/the-power-bi-service-admin-mapping-the-hive/

Extracting the Power BI activity log data using Azure Automation.

Learning Resources

Gilbert Quevauvilliers

https://www.fourmoo.com/2020/02/12/how-you-can-store-all-your-power-bi-audit-logs-easily-and-indefinitely-in-azure/

Extracting the Power BI activity log data using Azure Functions.

Nassim Kasdali (Microsoft Power BI team)

https://github.com/kasdali/pbila

Power BI Log Analytics Starter Kit

Learning Resources

Dev Camp Labs (Ted Pattison from Power BI Customer Advisory Team)

https://www.powerbidevcamp.net/

https://github.com/PowerBiDevCamp/PowerBI-PowerShell-Tutorial

See Ted's Sept. 24, 2020 session on Writing PowerShell Scripts for Power BI.

It uses Windows PowerShell still, but shares lots of good tips nonetheless.

Brett Powell (Insight Quest)

https://insightsquest.com/

https://github.com/BrettP76/Insight-Quest-Examples

Brett has lots of examples to learn from in his GitHub repositories.

Learning Resources

Parker Stevens 4-Part Series

Part 1: https://www.youtube.com/watch?v=cTqFNg_y9Iw

Part 2: https://www.youtube.com/watch?v=2RZkc_qrV1g

Part 3: https://www.youtube.com/watch?v=Z4E2jSZ4r6A

Part 4: https://www.youtube.com/watch?v=BxKIJL5baAU

A few considerations:

- Some flaws from part 1 are fixed in part 2, so watch the first two parts before you build too much out.

- The technique used has some serious security concerns so if you use this approach, strenuously protect the PBIX file.

- Only 30 days of history can be accumulated using this technique.

Learning Resources

Aaron Nelson (Microsoft)

https://github.com/SQLvariant/Demos/tree/master/Presentations/
PowerShell-for-PowerBI

Aaron uses notebooks to illustrate various techniques.

Guy In a Cube (Microsoft)

Power BI REST API No-Code Options

https://www.youtube.com/watch?v=fXbJeIY2CgE

Power BI Service Principals 101

https://www.youtube.com/watch?v=1SO19uik1rw&t=310s

References

Operations available in the Power BI activity log
https://docs.microsoft.com/en-us/power-bi/admin/service-admin-auditing#operations-available-in-the-audit-and-activity-logs

PowerShell cmdlets, REST APIs, & .NET SDK for Power BI admin
https://docs.microsoft.com/en-us/power-bi/admin/service-admin-reference

Working with PowerShell in Power BI
https://powerbi.microsoft.com/en-us/blog/working-with-powershell-in-power-bi/

Announcing APIs and PowerShell Cmdlets for Power BI Administrators
https://powerbi.microsoft.com/en-us/blog/announcing-apis-and-powershell-cmdlets-for-power-bi-administrators/

References

Power BI Management Module: Download Module from PowerShell Gallery
https://www.powershellgallery.com/packages/MicrosoftPowerBIMgmt

Power BI Management Module: Documentation
https://github.com/Microsoft/powerbi-powershell

Power BI Management Module: Cmdlet Reference
https://docs.microsoft.com/en-us/powershell/power-bi/overview?view=powerbi-ps

References

Data Gateway Module: Download Module from PowerShell Gallery
https://www.powershellgallery.com/packages/DataGateway

Data Gateway Module: Cmdlet Reference
https://docs.microsoft.com/en-us/powershell/module/datagateway/?view=datagateway-ps

On-Premises Data Gateway Management
https://powerbi.microsoft.com/en-us/blog/on-premises-data-gateway-management-via-powershell-public-preview/

References

Power BI REST API Reference
https://docs.microsoft.com/en-us/rest/api/power-bi/

Power BI REST API with 'Try It' Tool
https://azure.microsoft.com/en-us/updates/power-bi-rest-api-tryit-tool/

Announcing New Admin APIs and Service Principal Authentication to Make for Better Tenant Metadata Scanning
https://powerbi.microsoft.com/en-us/blog/announcing-new-admin-apis-and-service-principal-authentication-to-make-for-better-tenant-metadata-scanning/