Using Power BI Metadata to mitigate data issues

Pre- steps required before starting:

Azure

- ❑ Create an Azure AD App
- ❑ Create a new security group in AD, add the app to the group.

Sharepoint

- ❑ Creation of a Sharepoint space to store the files generated.

Power BI Admin:

- ❑ Enable service principal authentication for read only admin apps.

- ❑ Enable allow service principals to use read only Power BI admin APIs in the Power BI tenant.

Request and collect the entire metadata of a tenant's PBI schema and catalog with two purposes

- GOVERNANCE: Better manage and unify the business logic used across workspaces, datasets and measures.
- ADOPTION: Automate solution that avoids manual update of information and not updated active data

Goals

- Create an easy to use process to **automate** API workflow.
- **Store** the results into JSON file into Sharepoint.
- **Transform** the metadata into structured model.
- **Use** the data in Power BI.

Building Blocks

Power Automate Flow that handles API requests and calls on scheduled daily refreshes.

- Import Power BI API Scanner
- Set up automation flows
- Run flows

Save generated files in **Sharepoint** folder.

- Save data in Sharepoint

Power BI to connect and model the data

- Connect data to Power BI
- Build data model and logic for test
- Deploy in APP
- Set alerting mechanism

Data that can be extracted

- **Workspaces**
- **Data Source**
- **Dataflows**
- **Datasets**
  - **Tables**
  - **Columns**
  - **Measures**

- **Comparisons** between different environments
- Understand and **monitor full data pipeline**
- Facilitate the identification on how **changes in data components can impact the data pipeline**

More info here