

Power Platform World Tour

PowerBIUG PowerAppsUG FlowUG



DATAFLOWS, PLANNING AND CERTIFIED DATASETS

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Presenter: Andrew Kinnier

- Solutions Architect
- Senturus, Inc. (senturus.com)
- Assistant Organizer NY/NJ Power BI Public User Group
- Power Platform World Tour:
 - Manhattan (2017),
 - Charlotte (2018),
 - Washington DC (2019)



Senturus Inc.

- Dashboards, reporting and visualizations
- Data preparation and modern data warehousing
- Hybrid BI environments (migrations, security, etc.)
- BI support retainer (expertise on demand)
- Software to enable bimodal BI and platform migrations
- Training and mentoring

Session Objectives & Agenda

- Discuss big picture of Dataflows, Shared and Certified Datasets
- Demo Dataflows
 - Build and publish a dataflow
 - Use the dataflow as a source to Power BI
- Other Dataflows components
- Demo Shared and Certified Datasets
 - Admin Portal
 - Shared Datasets
 - Certified Datasets

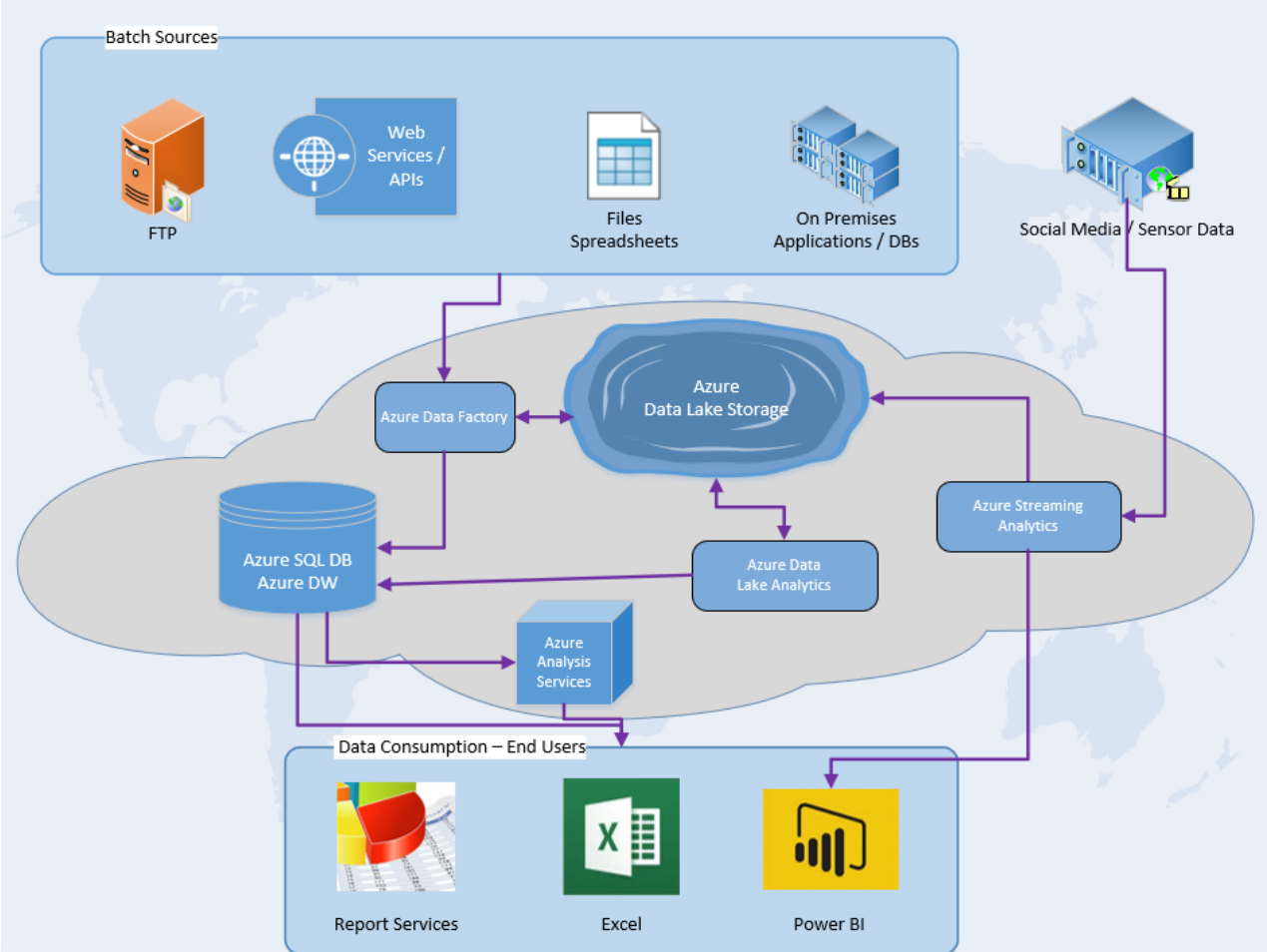
By a show of hands

- ETL/ELT Developers
 - Power Users
 - Data Consumers
 - Managers / Executives
-
- Power BI Pro
 - Power BI Premium
 - Desktop Only



Big Picture – What is the void that needs filling?

Enterprise Level BI



A cube is a cube is a cube is a cube (or a dataset)

Personal BI – Power BI Desktop

Resides on local computer (desktop/laptop). Each .pbix file contains both the dashboard and cube. Size limit is based on your computer resources. Ex: 8GB



Team BI – Power BI Service

Online portal for sharing content. Separates dashboards from cube allowing for many reports to be created from a single cube. Limits cube size to 1 GB. Allows for row-level security

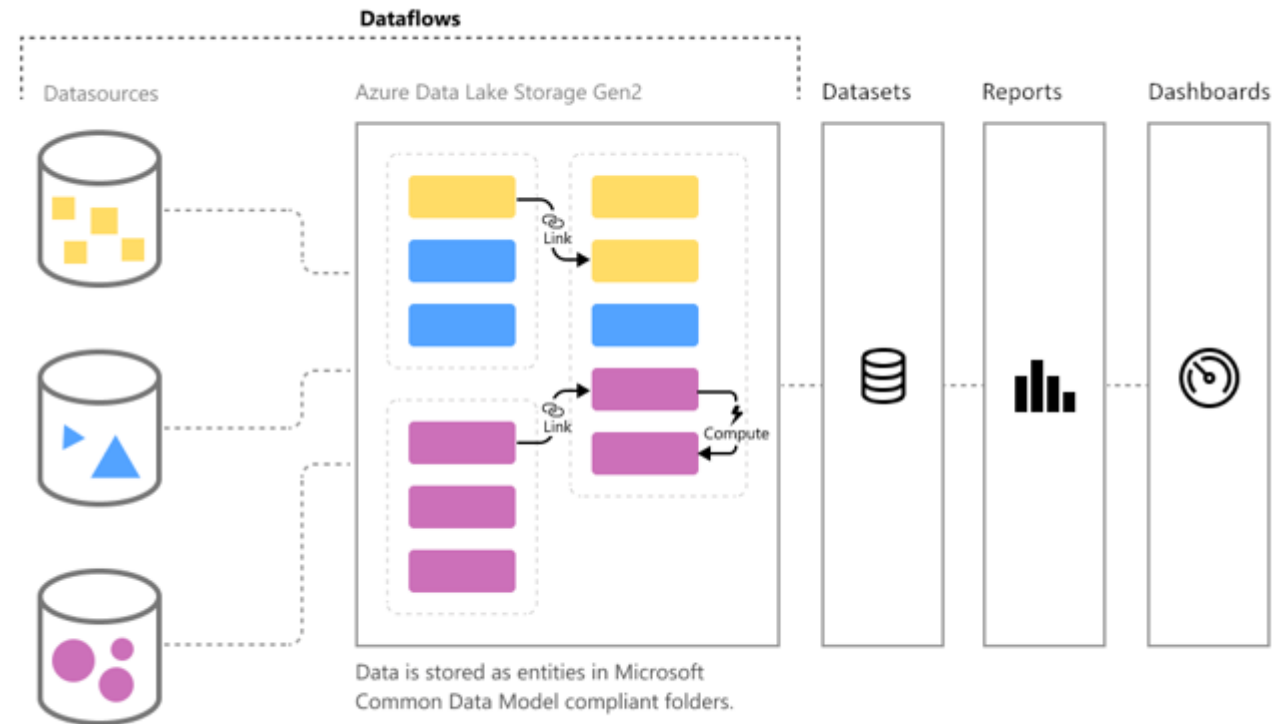


Enterprise BI

Desktop or Service connects to Production cube in a separate environment (on-prem, cloud). Single source of truth. Size of cube limited by server resource. Ex: 64GB



Dataflows – bridge the gap between Enterprise and Self-Service Power BI



Dataflows

A large audience is seated in a conference room, facing a stage with multiple projection screens. The room is well-lit with recessed ceiling lights. The audience is diverse in age and appearance, and many are looking towards the stage. The stage area is partially obscured by the large text overlay.

Dataflows

- Power Query (Query Editor) in the cloud and separated from Power BI
- Dataflows Extract Data from the sources and persist (save) data in the cloud. Behind the scenes it is storing the data in Azure Data Lake Gen2
- Common Data Model
- Dataflow Demo

Dataflows - Pro and Premium

- <https://docs.microsoft.com/en-us/power-bi/service-dataflows-overview>
- Show Incremental Refresh
- Schedule Refresh
- Linked Dataflows

Shared and Certified Datasets

A large audience is seated in a conference room, facing a stage with presentation screens. The room is well-lit with recessed ceiling lights and large windows on the right side. The audience is diverse in age and appearance, and many are looking towards the stage. The overall atmosphere is professional and focused.

Shared Datasets

- Allows Datasets to be used in Power BI desktop and published to a different Workspace
- The dataset is not recreated in the new workspace, it has a link in the new workspace that points back to the published dataset in the other workspace
- Advantage
 - no more recreating the same dataset and publishing up your Power BI Service environment
 - Saves on space and compute power
- Demo

Certified Datasets

- Gives the organization a way to stamp approval at multiple levels
 - Default – pot luck – it could be in development, untested, etc. – use at your own risk
 - Promoted – anyone can Promote their datasets – it is signaling to other users that the creator of the dataset has tested and completed the dataset – you can use it with some comfort level
 - Certified – only Certified Administrators can attach this level to a dataset – Tells the user that the organization has tested and QA'd the dataset with accordance to company business rules

Planning

- Administrator Roles have expanded
 - An organization can allow an administrator to certify a dataset. The person needs to have some Power BI background and an understanding of the organizations data to be able to give a stamp of approval. Choose wisely.
- Dataflow Developers
 - Identifying the Power BI Power Users
 - Reusing their work in dataflow development
- Workspaces
 - Have separate workspaces for Dataflows
 - Allow shared workspaces across the Organization
- Training
 - Train Power Users and Data Consumers on the distinctions of Endorsement