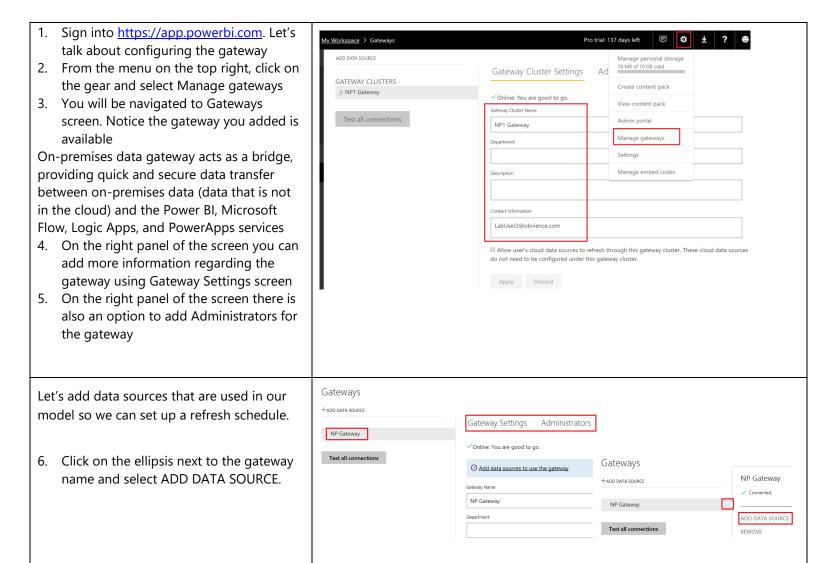
DIAD Power BI Service Demo Instructions

Prerequisites

- You must be connected to the internet
- Download a copy of the demo assets locally
- Sign up for https://app.powerbi.com
- Create DIAD workspace
- Follow lab instructions to create VanArsdel dashboard in DIAD workspace
- Publish DIAD Final Report with RLS.pbix. This will be used to demo row level security
- Install data gateway

Demo – Scheduled Refresh



We need to configure 3 data sources that are Data Source Settings used in the model. Data Source Name Dimensions 7. In the Data Source Settings page enter the name of the data as Dimensions. Data Source Type 8. From the Data Source Type drop down select File. 9. Enter following for the Full Path C:\DIAD\Data\USSales\bi_dimensions.xlsx C:\DIAD\Data\USSales\bi dimensions.xls x (if your file is in a different location The credentials are encrypted using the key stored o<mark>n</mark>-premises on the gateway server. <u>Learn more</u> change the path accordingly). 10. Enter the Windows username and johndoe password (this is typically the username Windows password and password you use to login to your machine). 11. Select Add. >Advanced settings Add Discard Once the data source is added, notice you can add Users who can access this data source. Data Source Settings Users Let's add the US Sales csv data source file. 12. Click on the ellipsis next to the gateway ✓ Connection Successful name and select ADD DATA SOURCE. Data Source Name 13. In the Data Source Settings page enter the name of the data as US Sales. Data Source Type 14. From the Data Source Type drop down select File. Full path 15. Enter following for the Full Path C:\DIAD\Data\USSales\sales.csv C:\DIAD\Data\USSales\sales.csv (if your The credentials are encrypted using the key stored o<mark>n</mark>-premises on the gateway server. <u>Learn more</u> file is in a different location change the path accordingly). 16. Enter the Windows username and

.....

>Advanced settings

Apply Discard

password (this is typically the username and password you use to login to your

machine).

Select Add.

Let's add the International Sales folder data 17. Click on the ellipsis next to the gateway

- name and select ADD DATA SOURCE.
- 18. In the Data Source Settings page enter the name of the data as International Sales.
- 19. From the Data Source Type drop down select Folder.
- 20. Enter following for the Full Path C:\DIAD\Data\InternationalSales (if your file is in a different location change the path accordingly).
- 21. Enter the Windows username and password (this is typically the username and password you use to login to your machine).

Select Add.

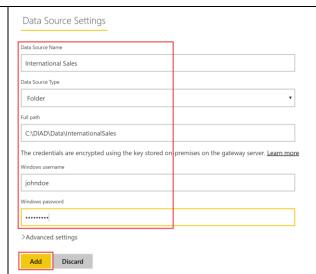
Now let's look at how refresh is going to work.

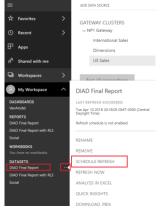
- 22. If the left panel is collapsed, expand it by clicking on the three bars below PowerBI.
- 23. Navigate to Datasets section on the left panel and locate the dataset called DIAD Final Report. Click on the ellipses and click on Schedule Refresh as shown in the screenshot.

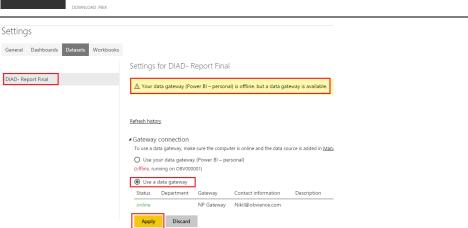
In the Settings page, you will see the Datasets section is selected.

- 24. The Power BI service has detected that you have setup a Gateway. Expand Gateway connection.
- 25. Select Use a data gateway and click Apply.

A dialog appears confirming the gateway for DIAD- Report Final has been updated.





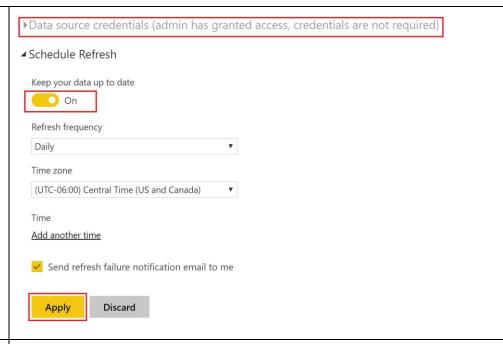


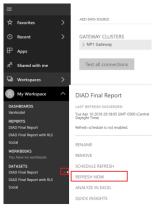
Now let's schedule data refresh. Notice that you do not have to re-enter the credentials for each data source again. Since it is set up at the gateway level.

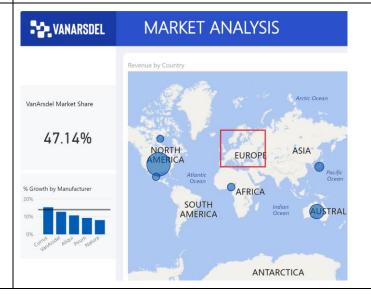
- 26. Expand Schedule Refresh section.
- 27. Enable data refresh by moving the slider below "Keep your data up to date".
- 28. There are two options for Refresh Frequency, daily and weekly. Pick Daily.
- 29. Using "Time Zone" drop down update the time zone to the appropriate selection.
- 30. Click on "Add another time" to select refresh time.
- 31. Data refresh can be scheduled on the hour or 30min.

The company has sold Germany operations. Let's remove Germany file from International Sales folder.

- 32. Delete Germany.xlsx file from \DIAD\Data\InternationalSales folder
- 33. Navigate to Datasets section on the left panel and locate the dataset called DIAD Final Report. Click on the ellipses and click on REFRESH NOW as shown in the screenshot.
- 34. Once data is refreshed, navigate back to VanArsdel Final Report
- 35. Notice in the map visual we do not have any sales for Germany







Demo - Security

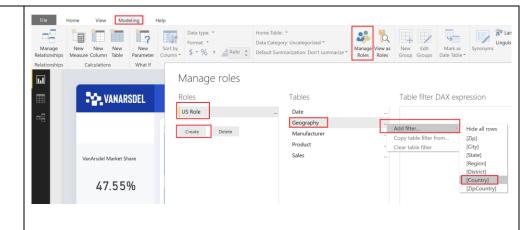
Now we have the model and report ready, we want to add security around it, so that individuals from a USA view only USA data and individuals from Mexico view only Mexico data and so forth.

- From the ribbon select Modeling -> Manage Roles.
- 2. Manage roles dialog opens. Click on Create button.
- 3. Name the role as US Role.
- 4. Click on the ellipsis next to Geography.
- 5. Select Add Filter -> [Country].

Notice a DAX Expression appears in the text area.

6. Edit the DAX Expression to [Country] = "USA".

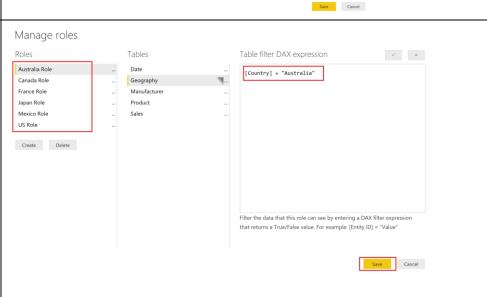
Click on the check mark on the top right corner. This will validate the DAX expression.





Similarly add roles for Australia, Canada, France, Japan and Mexico using the following DAX Expressions.

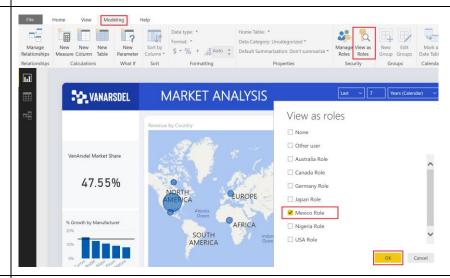
Australia Role	[Country] = "Australia"
Canada Role	[Country] = "Canada"
Germany Role	[Country] = "Germany"
Japan Role	[Country] = "Japan"
Mexico Role	[Country] = "Mexico"
Nigeria Role	[Country] = "Nigeria"



7. Once you add all the roles, click on **Save** button.

Power BI Desktop provides the capability to validate the roles you created. This helps us view the reports as a different role and make sure it's formatted right for that role.

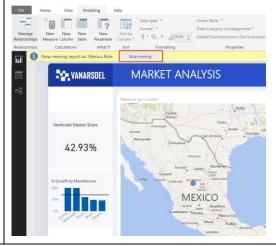
- 8. From the ribbon, select Modeling -> View as Roles.
- 9. View as roles dialog appears. Select Mexico Role.
- 10. Click OK.



Notice now you are viewing as a person with Mexico Role would view.

11. Click on Stop viewing to exit Mexico Role view.

We will add users to these roles in the service. You should have already



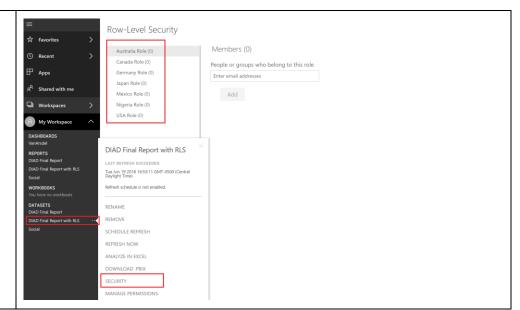
As a pre-demo step you have published DIAD Final Report with RLS.pbix to the service

Navigate to DIAD Final Report with RLS dataset and select the ellipsis

Select SECURITY

Notice the roles we created in the pbix file are visible. This is where users can be assigned to troles.

When a user assigned to a role logs into the service, their experience will be like what we saw in View Roles feature.



Power BI Service

Walk through Power BI Service layout Power Bl (8) My Workspace Pro trial: 13 days left □ □ □ . Your Power BI service workspace is made up of: navigation bar Lab User2 dashboard with tiles Q&A question box help and feedback buttons dashboard title Office 365 app launcher Power BI home buttons Additional dashboard actions Talk about ability to publish the report to **☆** Favorites Power BI Service C Recent Navigate to the browser where ⊕ Apps https://app.powerbi.com is open Talk about the 3 main sections in Power BI Shared with me Service ☐ Workspaces

My Workspace

DASHBOARDS

REPORTS DIAD Final Report WORKBOOKS DATASETS

Power BI Service - Dashboards

Dashboards

Reports

Datasets

Dashboards provides information that is most important to the business In the navigation pane, your dashboards are listed under the Dashboards heading Each listed dashboard represents a customized view of some subset of the underlying datasets Dashboard is a collection of tiles that are pinned from Reports by mouse over the



ONE dashboard...

· can display visualizations from many different

CLASSIFICATION

Mid

· can display visualizations from many different reports

desired chart and clicking on the Push Pin Icon

Each tile displays a single visualization that is created from the data in one of the underlying dataset(s)

To permanently pin a tile to a dashboard, user must be the report owner
Dashboards are not interactive the same way the reports are, they cannot be filtered
Clicking on a tile links back to the report page where the chart resides
Each tile in a dashboard can link to a different report. Each report connects to a specific data set. Hence a dashboard can be a collection of tiles from multiple data sets
Tiles in a dashboard can be resized and rearranged

Power BI Service - Reports

Navigate to DIAD- Report Final and talk about features of Report

Reports are a collection of charts

A report can have multiple pages

A page consists of a canvas that is used to view/edit charts and a filter

Reports can be created from scratch within Power BI or can be imported with datasets and with shared dashboards

There are 2 ways to view and interact with reports: Reading View and Editing View. Only the report creator can open Editing View for a report

Reports are interactive – when an element of a chart is clicked, the rest of the report will update to reflect the relative contribution of the element that has been selected

Each report connects to a specific data set

Page level filters can be applied to a report. These filters apply to all the chart elements in the page

Each chart can have its own filters that apply only to the chart

Each chart has configuration options like Data Labels, Title, Data Colors, etc.



ONE report...

- can be associated with multiple dashboards (tiles pinned from that one report can appear on multiple dashboards).
- can be created using data from one dataset. (the slight exception to this is that Power BI Desktop can combine more than 1 dataset into a single report and that report can be imported into Power BI)

Power BI Service - Datasets

Navigate to Datasets and talk about the features:

A dataset is data uploaded into the Power BI service from an online or on-premises data source. A dataset is created when Get Data is used to connect and upload data In the navigation pane, the datasets you've connected to are listed under the **Datasets** heading

To connect to a dataset, click **Get Data** (at the bottom of the navigation pane) or click the plus icon (next to the **Datasets** heading). Follow the instructions to connect to the specific source and have a dataset created. The new dataset is added to the left navigation pane with a yellow asterisk Dataset can be refreshed on demand Dataset can also be set on a scheduled refresh

Dataset can be scheduled to refresh daily or weekly

Multiple refreshes in a day or week can be scheduled



ONE dataset...

- can be used over and over.
- can be used in many different reports.
- Visualizations from that one dataset can display on many different dashboards

Power BI Service

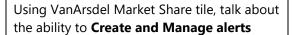
Navigate to VanArsdel dashboard Using the VanArsdel dashboard, 2 reports -DIAD Final Report and Social and the 2 data sets DIAD Final Report and Social explain the relationship between the Dashboard, Reports and Datasets

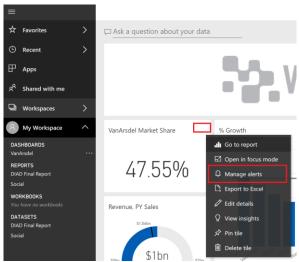


Talk about how the tiles have been created from the reports

Talk about how clicking on dashboard tile navigates to the respective report page Using ...by Year, Manufacturer line chart talk about In **Focus mode** and **Quick Insights**





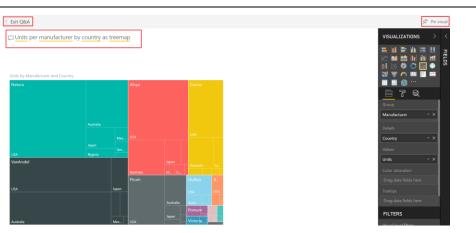


Talk about Q&A

Enter Units – talk about the card visual Enter Units per manufacturer – talk about the bar chart

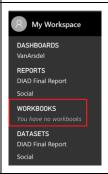
Units per manufacturer by country as treemap

Talk about the ability to format the pin the Q&A visual to the dashboard

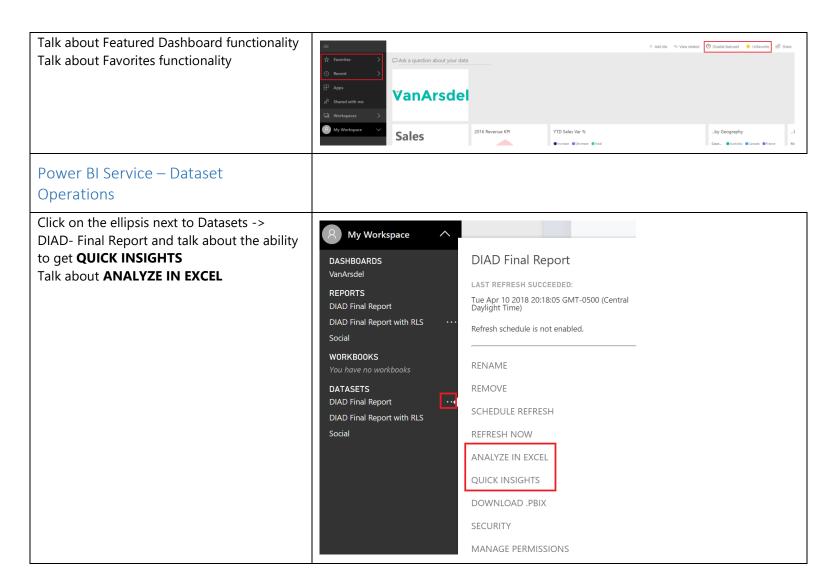


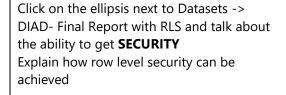
Power BI Service – Excel Workbooks

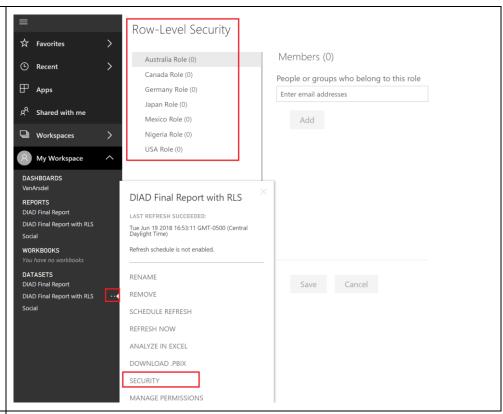
Navigate to WORKSBOOKS section and talk about the ability to publish excel workbooks



Power BI Service – Personization

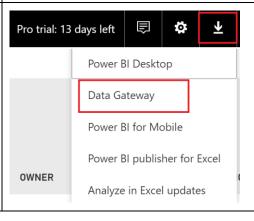


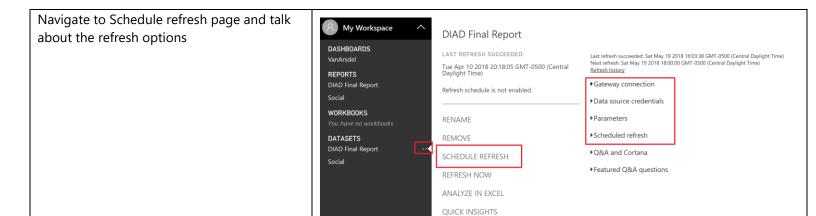




Power BI Service – Refresh Data

Talk about Gateway and the two options available – personal mode and non-personal mode





DOWNLOAD .PBIX
SECURITY

MANAGE PERMISSIONS

Power BI Service - Share Dashboard

Navigate to Share Dashboard screen

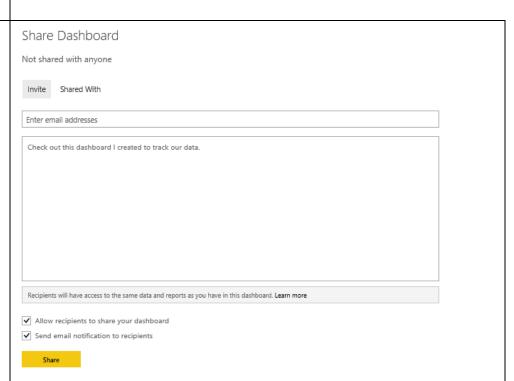
Only users within your organizations are allowed to have access to the shared dashboard

After the dashboard has been shared, option is provided to send an email to the recipients with a link that they will have to click on to accept the share

Users accessing shared dashboard do not edit permissions

If a shared dashboard has reports, you will NOT see the report listed in the navigation pane

To open the report, from the shared dashboard, click one of the tiles. If the report owner created the tile from a report, the report opens. If the report owner created the tile from Q&A, the Q&A page opens



Power BI Service – Collaboration and Distribution using Apps

Navigate to Create App Workspace screen and talk about Collaboration

Collaboration in Power BI is done by creating apps

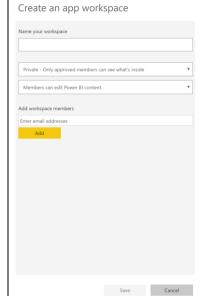
Default group is My Workspace. This group is the user's personal workspace, it cannot be used for collaboration

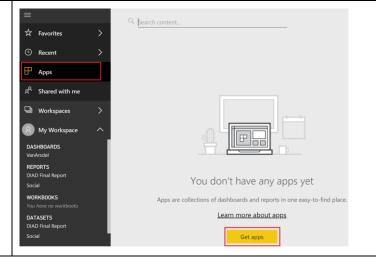
Private or Public app is created for collaboration. In a private app only approved members have access

Creating a app also creates an Office 365 group with all the collaboration artifacts (OneDrive, mailbox, etc)

User can be a member of multiple apps Members of an app can create/edit dashboards, reports, datasets based on the permission

Talk about the ability to distribute and install apps





Apps can be shared across organizations Screenshot shows a sample email B2B invite

From: Microsoft Power BI (No Reply)
Sent: Tuesday, May 15, 2018 11:11 AM
To: Charles Sterling <<u>chass@microsoft.com</u>>

Subject: Charles Sterling has shared Power BI App 'DIAD' with you

Here's the App that Charles shared with you

View App in Power BI: DIAD



Microsoft Corporation
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