



Govern your
Power BI environment

Support Business Efficiency

Hylke Peek

Hylke Peek



Data Consultant



Peek Data Consultancy

 @hylkepeek

 linkedin.com/hylkepeek

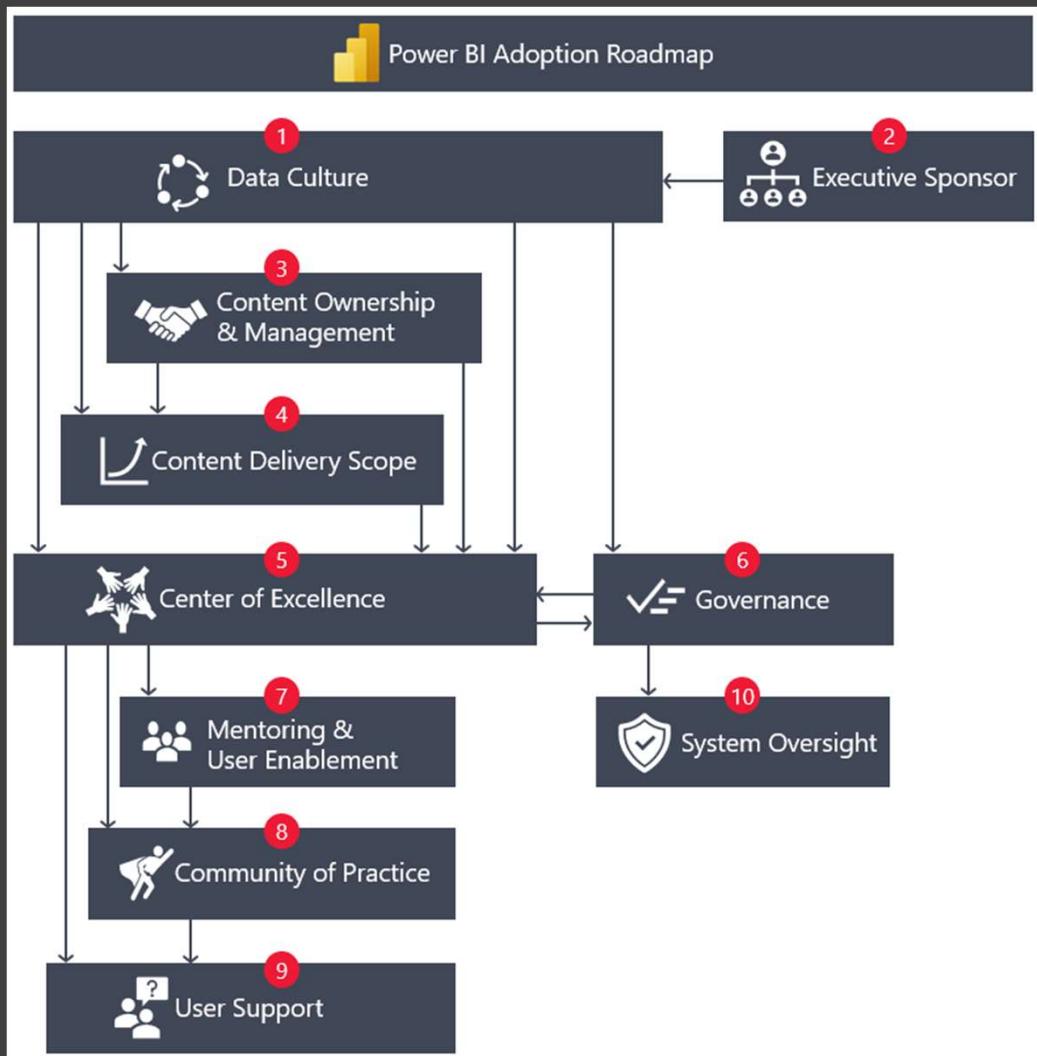
 github.com/hylkepeek

 PeekData.nl/blogs

I'm working on a lot of different stuff. Focus on **Azure** and **Power Platform**.

- Data Platform
- Data warehousing
- Analytics
- Azure data solutions
- Power Platform

Introduction to concepts



Power BI Adoption Roadmap

Maturity levels

Optimized



Power BI governance is continuously improved by measuring the governance and process feedback.

Managed



Power BI governance is supporting the changing business needs.

Defined



Power BI is governed centrally in the same way as other tooling.

Repeatable



Power BI is governed separate from other tools but consistent in different projects.

Initial



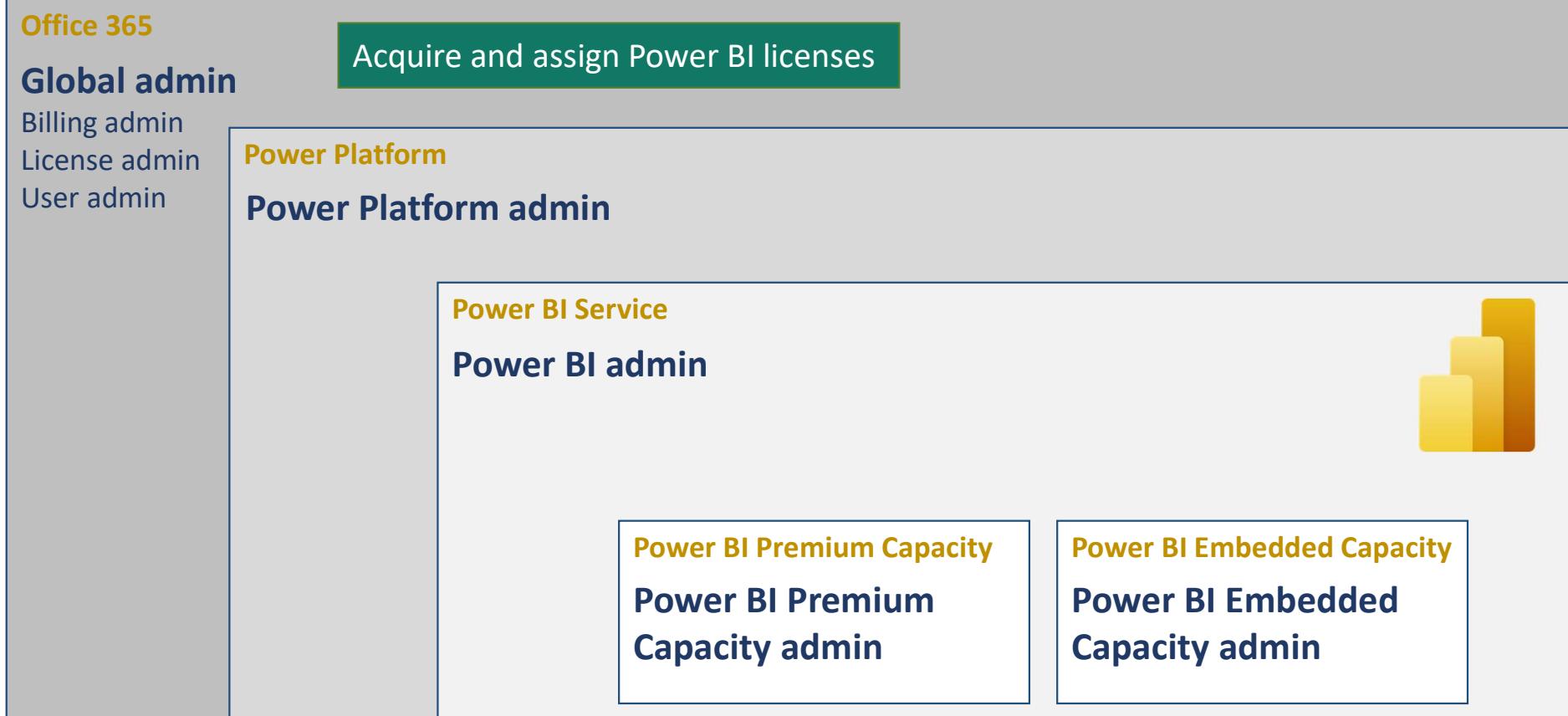
Power BI is just activated and maybe people thought about governance.



Where is your organization at this moment?

Power BI Administration

Relevant admin roles



Steps in using Power BI within an organization



Someone starts using Power BI

Licensing

Assignment

Licensing

Free

Work on your own

New Power BI report creators or report viewers in Premium Capacity environment

Pro

Share your reports and collaborate

Small/medium scale business with standard analytic requirements

Premium per user

AI and development features

Small/medium scale business with advanced analytic and/or development requirements

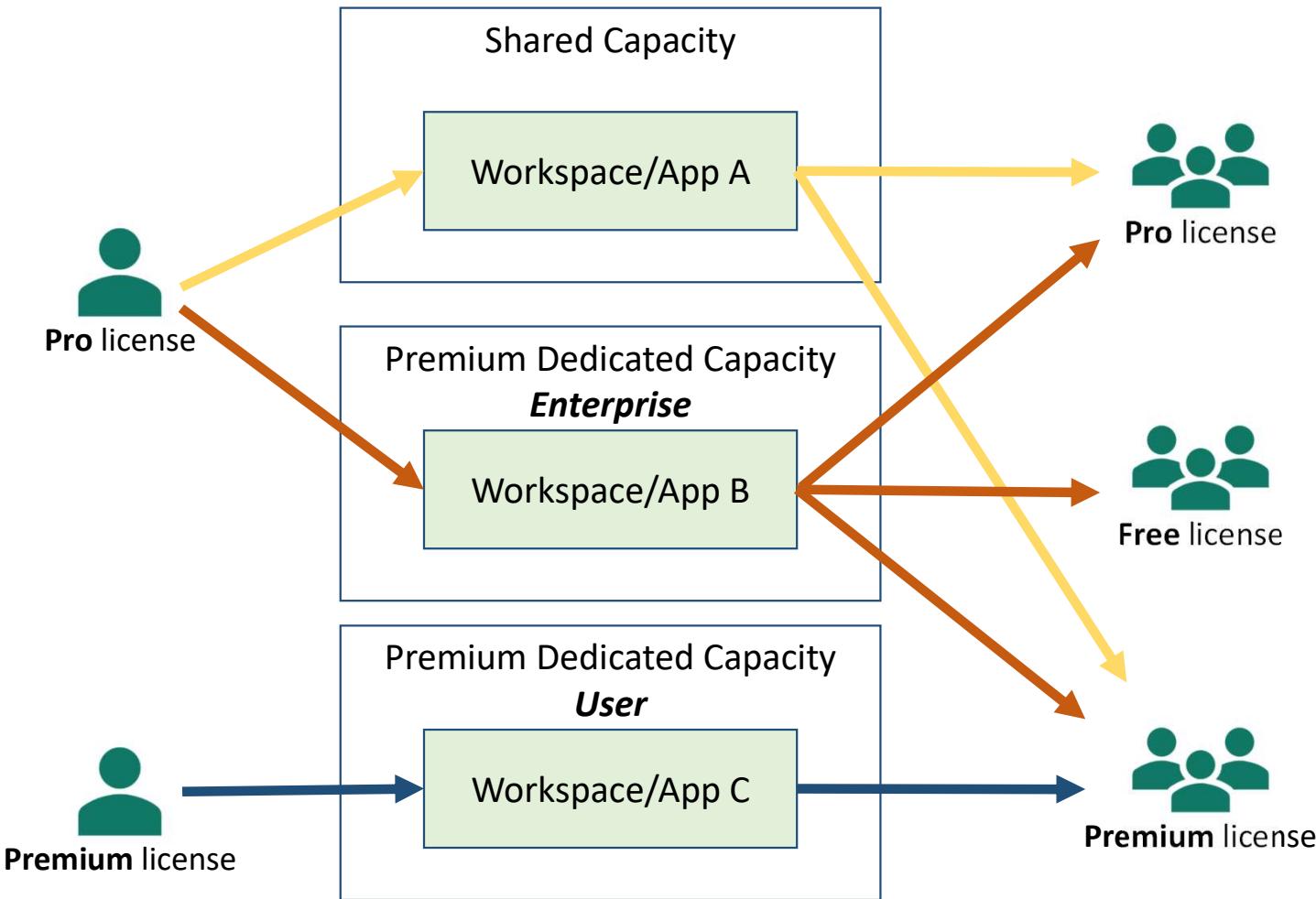
Premium Capacity

Advanced security, scalability options and many users (500+)

Enterprise scale business with advanced analytic and/or development requirements



Who can share with who?



Assign and Purchase licenses

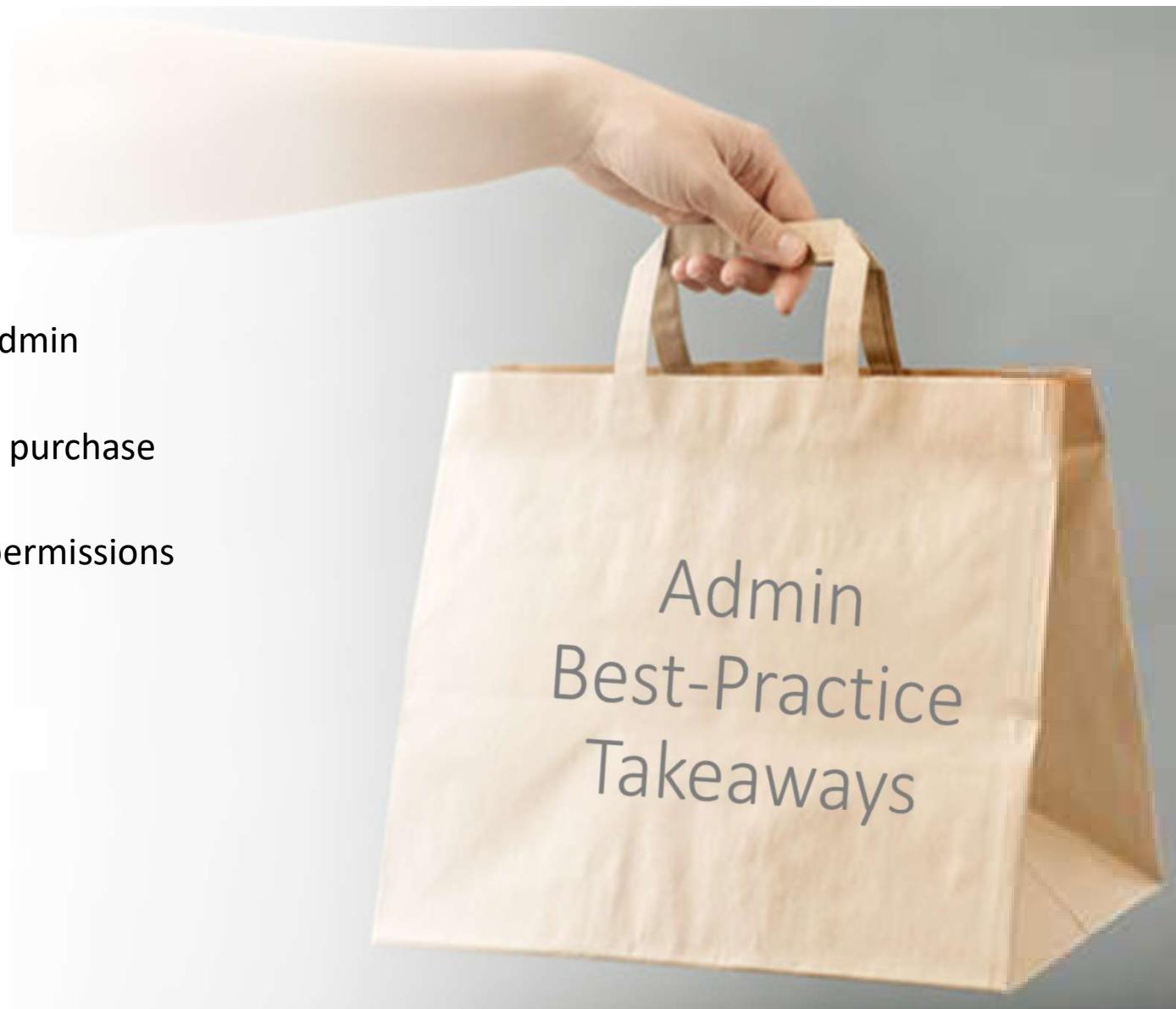
- Use the 365 admin center or Azure Portal
- Power BI Pro is part of Microsoft 365 E5
- Self-service sign-up, trials and purchasing

Setting: AllowSelfServicePurchase	Self-service purchase	Acquire trial
Enabled	Yes	Yes
OnlyTrialsWithoutPaymentMethod	No	Yes
Disabled	No	No

- Group based licensing
 - A new person to a group gets all the required licensing automatically
 - No double licenses
 - Depending on the acquired licenses
 - Available within Azure Portal



- Split roles Office Admin and Power BI admin
- Let people use trials but no self-service purchase
- Always use groups to assign roles and permissions

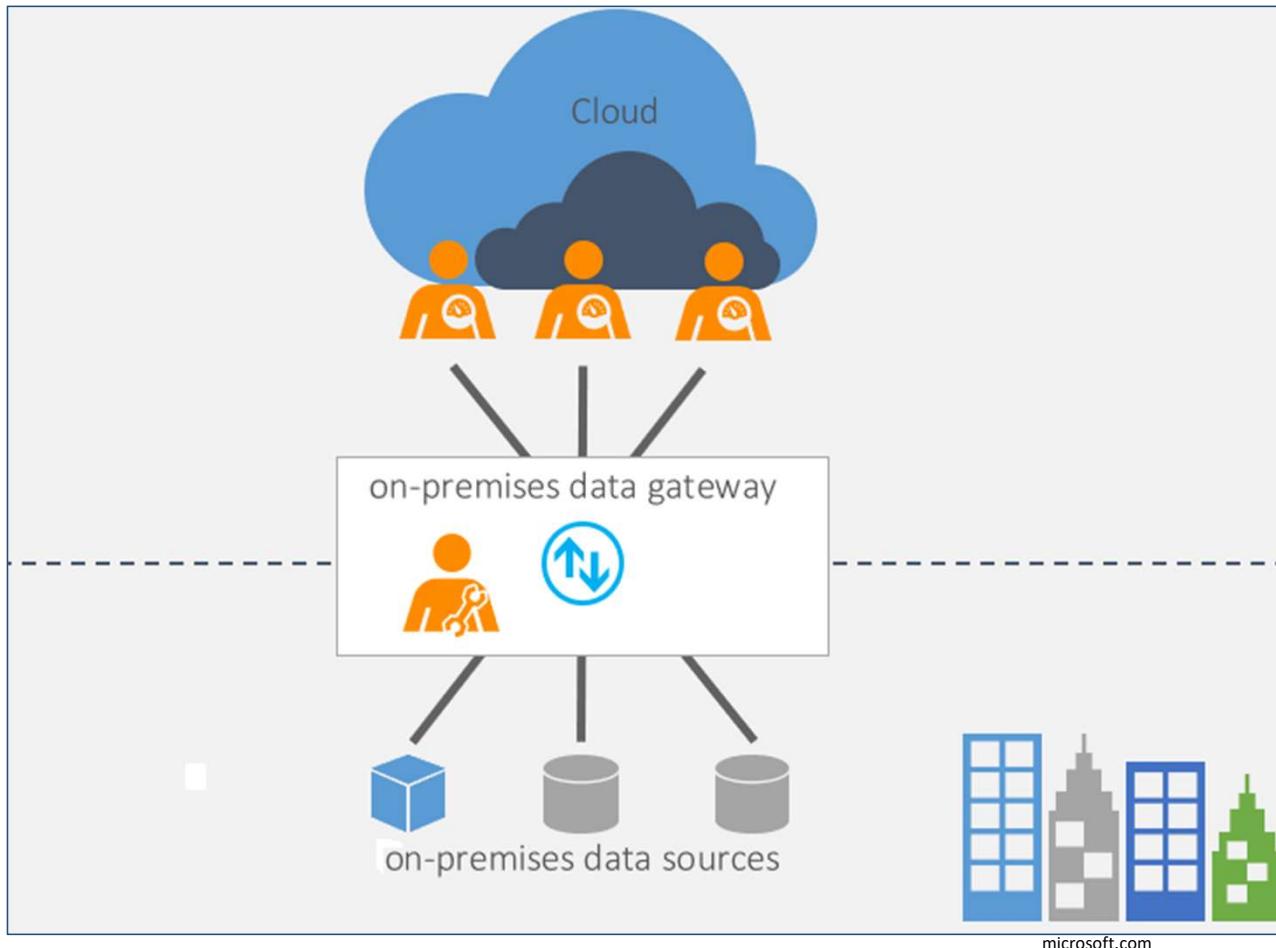


Someone starts using company sources

On-premise gateway

Azure resources

On-premise gateway



Install 1 gateway for all local sources

From this server you should be able to connect to all sources

2 nodes: Personal and Standard

You create a recovery key

You can have a cluster of gateways



Using Azure Resources



No need for a gateway

Maintain in Power BI - Data Sources

Power BI permissions ≠ Data Source permissions

- Use standard gateways
- Monitor gateway from time to time
- Save the recovery key securely



More people start using Power BI

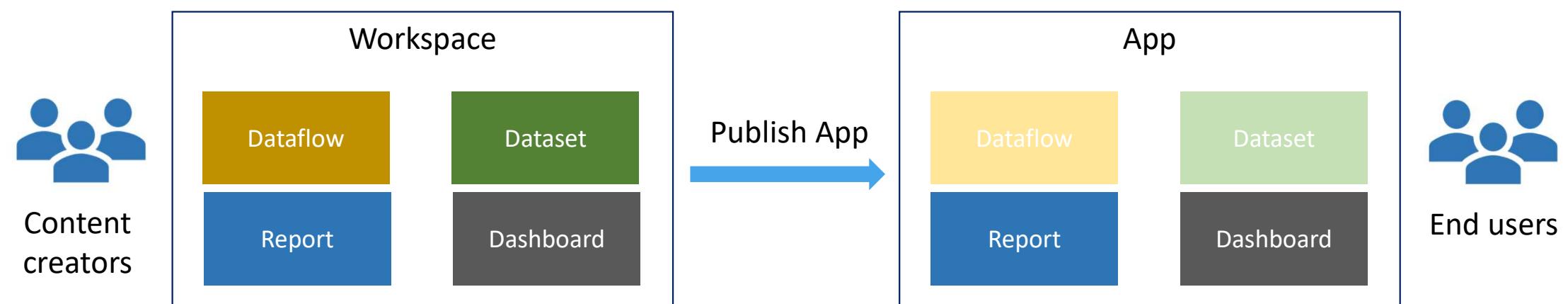
Workspace settings

Visuals

Workspaces and Apps

'Workspaces are places to collaborate with colleagues on specific content.'

'Apps are used to share content to others.'



Viewer

The screenshot shows the Power BI service interface. At the top, it displays "Power BI Synapse Fanshop". On the left is a navigation sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Knowledge center, Workspaces, and Synapse Fanshop (which is currently selected). The main area is titled "Synapse Fanshop" and contains a table with one item:

Name	Type	Owner	Refreshed	Next refresh	Endorsement	Sensitivity
Sales reporting	Report	Synapse Fanshop	9/8/22, 8:41:31 PM	—	—	—

At the bottom right of the main area, there are "Filters", "Settings", and a search bar. The overall background is dark blue.

View all reports (and dashboards)

Contributer

The screenshot shows the Power BI workspace interface for 'Synapse Fanshop'. On the left is a vertical navigation bar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Knowledge center, Workspaces, and Synapse Fanshop. The main area displays a list of content items. At the top, there are buttons for 'New' and 'Upload', and tabs for 'All', 'Content', and 'Datasets + dataflows', with 'Content' being the active tab. Below this is a table with columns for Name, Type, Owner, Refreshed, Next refresh, Endorsement, and Sensitivity. Two items are listed: 'Sales reporting' (Report, Synapse Fanshop, 9/8/22, 8:41:31 PM) and 'Sales reporting' (Dataset, Hylke Peek, 9/8/22, 8:41:31 PM). A yellow box highlights the 'Content' tab and the second dataset row.

Name	Type	Owner	Refreshed	Next refresh	Endorsement	Sensitivity
Sales reporting	Report	Synapse Fanshop	9/8/22, 8:41:31 PM	—	—	—
Sales reporting	Dataset	Hylke Peek	9/8/22, 8:41:31 PM	N/A	—	—

Create, edit, and delete all content in the workspace
Manage access for all content in the workspace

Member

The screenshot shows the Power BI workspace interface for 'Synapse Fanshop'. On the left is a navigation menu with options: Home, Create, Browse, Data hub, Metrics, Apps, Knowledge center, Workspaces, and Synapse Fanshop (which is selected). The main area displays two items: 'Sales reporting' (Report) and 'Sales reporting' (Dataset). At the top right are buttons for 'Create app' (highlighted with a yellow box), 'Access' (highlighted with a yellow box), and search. A modal window titled 'Access' is open, showing the 'Synapse Fanshop' workspace. It includes a text field for 'Add admins, members, or contributors' with a 'Learn more' link, a dropdown menu set to 'Member' (highlighted with a yellow box), and a list of users: Hylke Peek (Admin) and Sven Williams (Member). A search bar and a table for managing permissions are also visible.

Power BI Synapse Fanshop

Synapse Fanshop

+ New ▾ Upload ▾

All Content Datasets + dataflows

Name Type Owner Refreshed Next refresh Endorsement Sensitivity

Sales reporting Report Synapse Fanshop 9/8/22, 8:41:31 PM — — —

Sales reporting Dataset Synapse Fanshop 9/8/22, 8:41:31 PM N/A — — —

Access

Synapse Fanshop

Add admins, members, or contributors. [Learn more](#)

Enter email addresses

Member

Member

Hylke Peek Admin

Sven Williams Member

Manage apps

Manage some access for the workspace

Admin

Manage workspaces
Manage all access for the workspace

The screenshot shows the Power BI workspace management interface for the 'Synapse Fanshop' workspace. On the left, a sidebar lists various workspace categories: Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, Workspaces, and Synapse Fanshop (which is selected). The main content area displays two items: 'Sales reporting' (Report) and 'Sales reporting' (Dataset). The 'Access' panel is open, showing a list of users: Hylke Peek (Admin) and Sven Williams (Member). A context menu for Sven Williams is open, showing options: Admin, Contributor, Viewer, and Remove. The 'Settings' panel is also open, showing workspace details like name ('Synapse Fanshop'), description ('Describe this workspace'), and workspace image settings. Buttons for 'Delete workspace', 'Save', and 'Cancel' are at the bottom of the settings panel.

Synapse Fanshop

New Upload

All Content Datasets + dataflows

Name	Type	Owner	Refreshed	Next refresh	Endorsement	Sensitivity	Include in app
Sales reporting	Report	Synapse Fanshop	9/8/22, 8:41:31 PM	—	—	—	No
Sales reporting	Dataset	Synapse Fanshop	9/8/22, 8:41:31 PM	N/A	—	—	—

Access

Synapse Fanshop

Add admins, members, or contributors. [Learn more](#)

Enter email addresses

Member

Add

Search

NAME	PERMISSION
Hylke Peek	Admin
Sven Williams	Member

Admin
Contributor
Viewer
Remove

Settings

Synapse Fanshop

About Premium Azure connections

Workspace image

Upload Delete

Workspace name *
Synapse Fanshop

Description
Describe this workspace

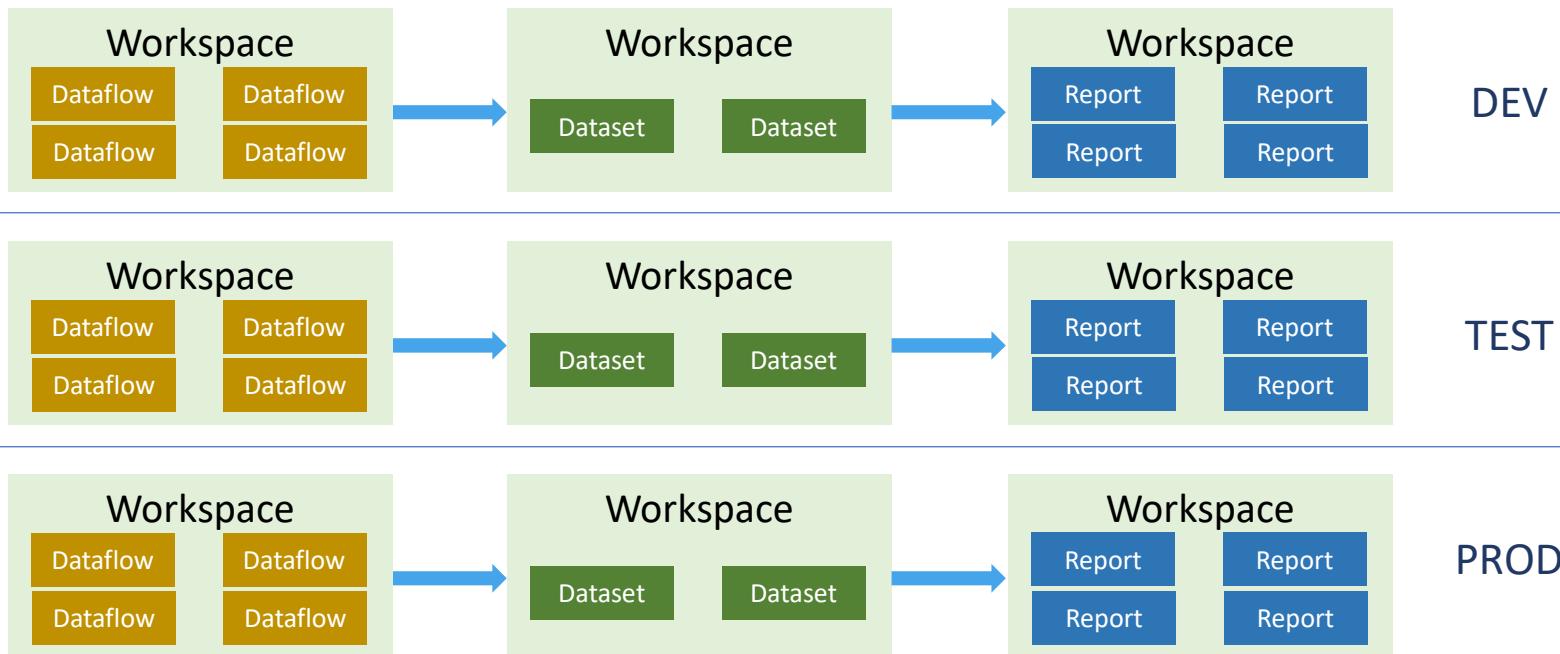
[Learn more about workspace settings](#)

Advanced

Delete workspace Save Cancel

Workspace best-practise

Each workspace has it's own purpose



Workspace Settings

Power BI Admin portal

Admin portal

- Home
- Create
- Browse
- Data hub
- Metrics
- Apps
- Deployment pipelines
- Knowledge center
- Workspaces
- My workspace

Tenant settings

Workspace settings

- >Create workspaces (new workspace experience)
Enabled for the entire organization
- Use datasets across workspaces
Enabled for the entire organization
- Block scheduled upgrade of empty workspaces
Enabled for the entire organization
- Block notifications for scheduled workspace upgrades
Disabled for the entire organization

Information protection

- Allow users to apply sensitivity labels for content
Disabled for the entire organization
- Require users to apply sensitivity labels to Power BI content (preview)
Disabled for the entire organization
- Apply sensitivity labels from data sources to their data in Power BI

Create workspace

Create workspaces (new workspace experience)
Enabled for the entire organization

Users in the organization can create app workspaces to collaborate on dashboards, reports, and other content. Even if this setting is disabled, an upgraded workspace will be created when a template app is installed.

Enabled

Apply to:

The entire organization

Specific security groups

Except specific security groups

Apply Cancel

Workspace Settings

Power BI Admin portal

Admin portal

- Home
- Create
- Browse
- Data hub
- Metrics
- Apps
- Deployment pipelines
- Knowledge center
- Workspaces
- My workspace

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Disabled for the entire organization
- Apply sensitivity labels from data sources to their data in Power BI

Use datasets across workspaces

Use datasets across workspaces
Enabled for the entire organization

Users in the organization can use datasets across workspaces if they have the required Build permission.

Enabled

Apply to:

The entire organization

Specific security groups

Except specific security groups

Apply Cancel

Workspace Settings

The screenshot shows the Power BI Admin portal interface. On the left is a sidebar with various navigation options: Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, Workspaces, and My workspace. The 'Workspaces' option is highlighted with a yellow box. The main content area is titled 'Admin portal' and contains a 'Tenant settings' section. This section includes several configuration items, each with a small icon and a description. One item, 'Block scheduled upgrade of empty workspaces', is also highlighted with a yellow box. Below this is another section titled 'Information protection'.

- Home
- Create
- Browse
- Data hub
- Metrics
- Apps
- Deployment pipelines
- Knowledge center
- Workspaces**
- My workspace

Power BI Admin portal

Admin portal

Tenant settings

Workspace settings

- >Create workspaces (new workspace experience)
Enabled for the entire organization
- Use datasets across workspaces
Enabled for the entire organization
- Block scheduled upgrade of empty workspaces**
Enabled for the entire organization
- Block notifications for scheduled workspace upgrades
Disabled for the entire organization

Information protection

- Allow users to apply sensitivity labels for content
Disabled for the entire organization
- Require users to apply sensitivity labels to Power BI content (preview)
Disabled for the entire organization
- Apply sensitivity labels from data sources to their data in Power BI

Some features in V2:

- Assign groups to workspace role
- Share datasets
- Templates apps (instead of organizational content packs)
- Contact lists to receive notifications

Block scheduled upgrade of empty workspaces
Block notifications for scheduled workspace upgrades

Block scheduled upgrade of empty workspaces

Enabled for the entire organization

Enable this setting to prevent classic workspaces with no content from being upgraded when an upgrade is triggered by either a Power BI admin or by the Power BI service. [Learn more](#)



Enabled

Apply

Cancel

ⓘ This setting applies to the entire organization

Block notifications for scheduled workspace upgrades

Disabled for the entire organization

Enable this setting to prevent email notifications from being sent when classic workspaces are upgraded by either a Power BI admin or by the Power BI service. [Learn more](#)



Disabled

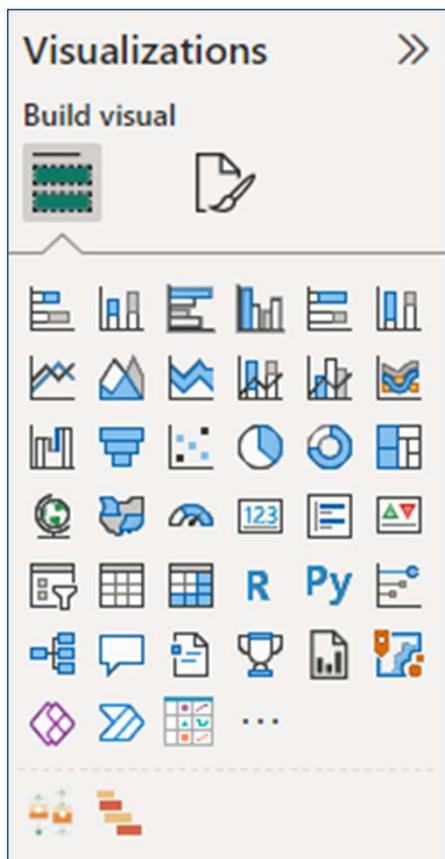
Apply

Cancel

ⓘ This setting applies to the entire organization



Visuals Settings



- How to deal with custom visuals?
 - Allow people to use them
 - Disallow downloads from custom visuals
 - Allow uncertified if policies allows you to
- Do we allow R and Python visuals?
- Which visuals can people see by default?
 - Make it easier for your end users to find the right visual

Power BI visuals

- ▷ Allow visuals created using the Power BI SDK
Enabled for the entire organization
- ▷ Add and use certified visuals only (block uncertified)
Disabled for the entire organization
- ▷ Allow downloads from custom visuals
Disabled for the entire organization

R and Python visuals settings

- ▷ Interact with and share R and Python visuals
Enabled for the entire organization

Organizational Visuals

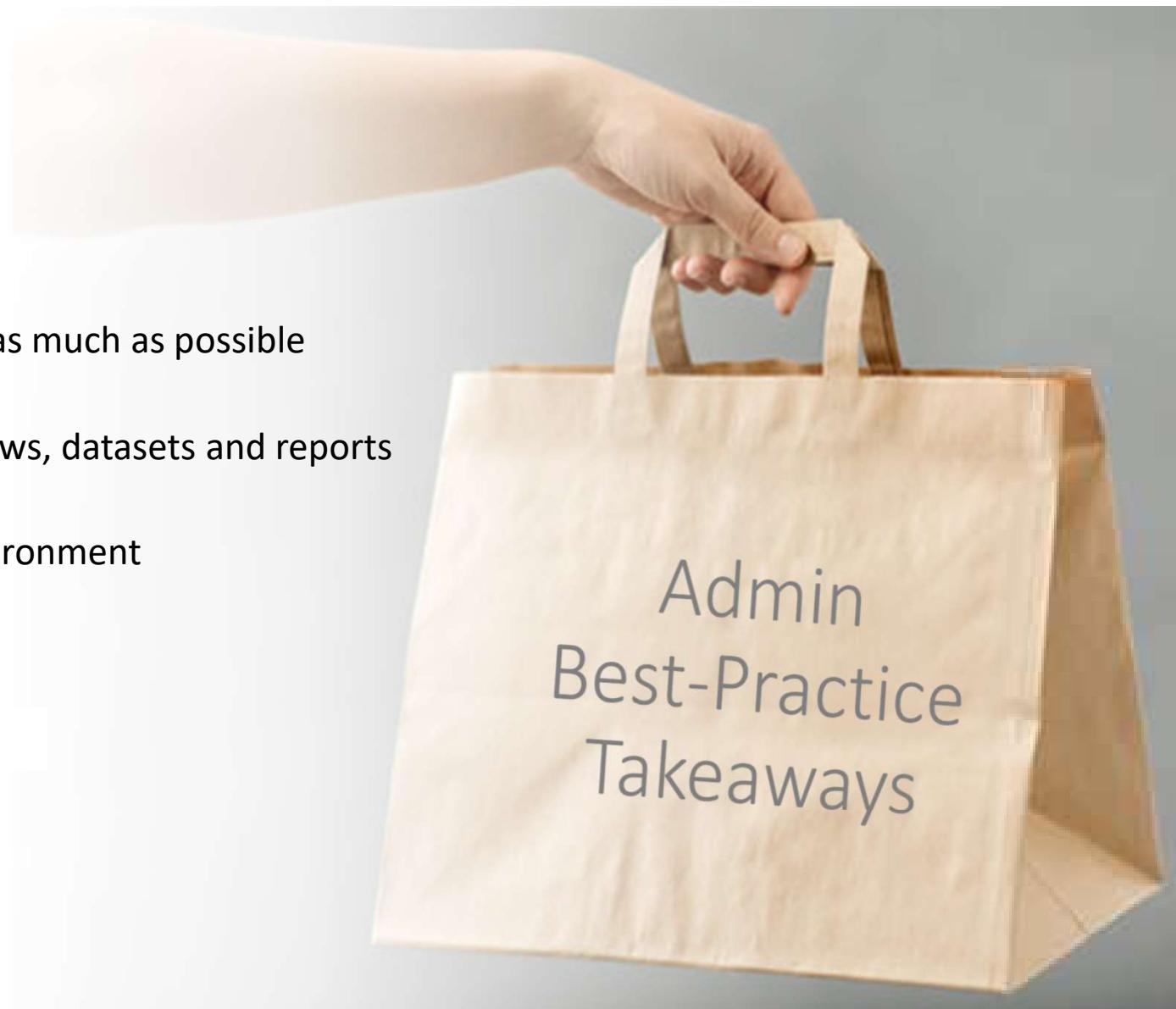
Add custom visuals and make them easy to use

The screenshot shows the Power BI Admin portal interface. On the left, there's a navigation sidebar with various options like Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, Workspaces, and Synapse Fanshop. The 'Organizational visuals' option is selected and highlighted with a blue arrow pointing from the main content area.

The main content area is titled 'Organizational visuals' and contains the following information:

- Add and manage Power BI visuals for your organization. [Learn more](#)
- Buttons for '+ Add visual', 'Refresh', and 'Export'.
- A table with columns: Visual, Source, Changed, and Visualization Pane.
- In the table, there is one item: 'Power KPI Matrix' (Source: AppSource, Changed: Jan 4, 2023), which is marked as 'Enabled'.
- Pagination controls: 'Items per page: 10', '1 - 1 of 1'.

To the right of the main content area is a 'Visualizations' catalog window. It includes a 'Build visual' section with icons for a grid and a pencil, and a large grid of various visualization icons. One specific icon, a matrix or grid icon, is highlighted with a yellow box and has a blue arrow pointing towards it from the bottom right.



- Use admin role carefully, use member as much as possible
- Create separate workspaces for dataflows, datasets and reports
- Create a set of workspace for each environment

People start sharing reports

Sharing options

Build permissions



How do you share reports with internal users?

Sharing options

Workspace



Use for collaboration only. Not for end users!

Individual content

App

Teams

Mobile App

Embedded

The screenshot shows the Power BI workspace sharing interface. At the top, it says "Power BI United FC [Development]". On the left, there's a sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The "United FC [Development]" workspace is selected. In the main content area, there's a table listing four items: "Datamodel Sales" (Report), "Datamodel Sales" (Dataset), "Fanshop Sales Data" (Dataflow), and "Reporting Sales" (Report). To the right, under the "Access" tab, there's a section for adding admins, members, or contributors. It has a text input field "Enter email addresses", a dropdown "Member", and a large green "Add" button. Below that, there's a table showing existing permissions:

NAME	PERMISSION	...
External users ⓘ	Member	...
Hylke Peek ⓘ	Admin	...
PowerBI_Access ⓘ	Admin	...

Sharing options

Workspace

Individual content

App

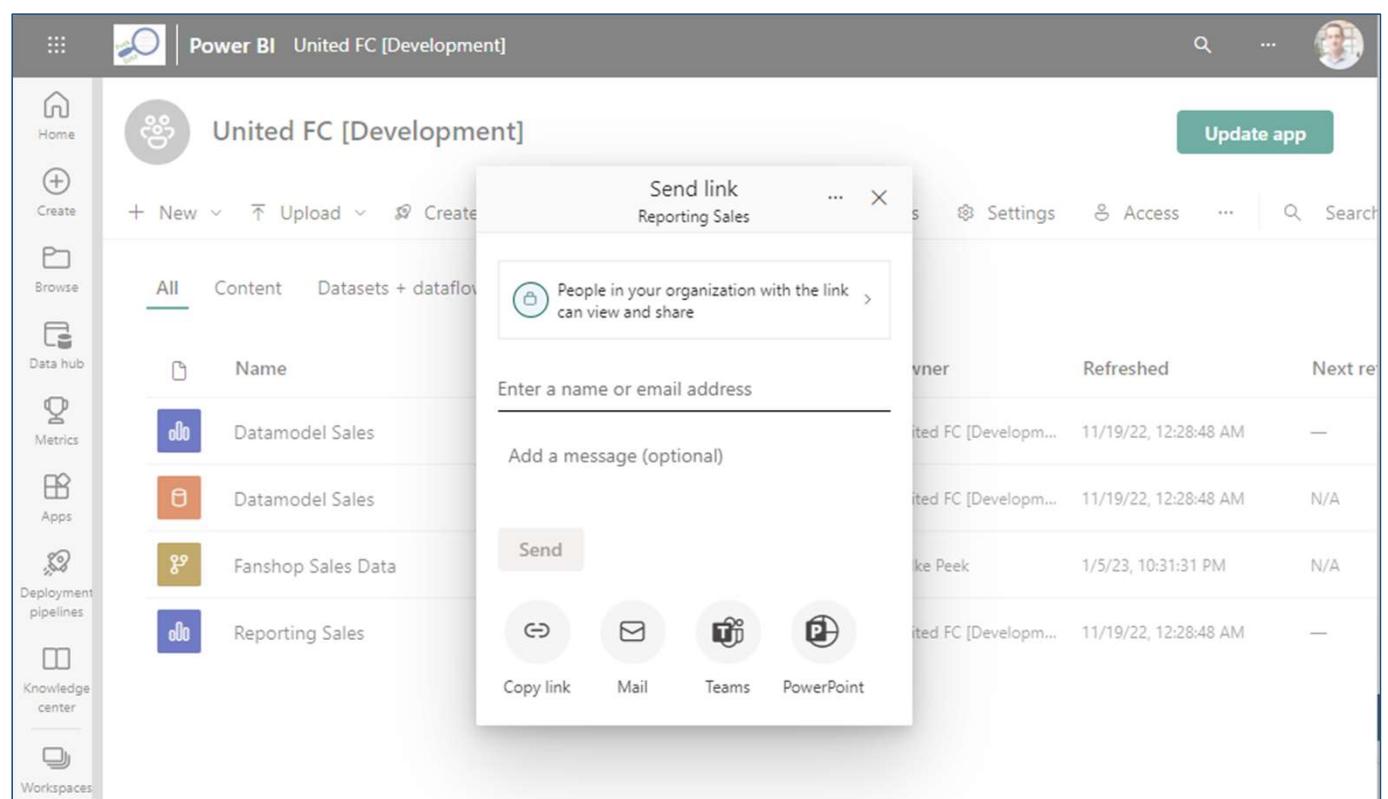
Teams

Mobile App

Embedded



Use for incidental sharing only. Maintaining permissions will be hard.



The screenshot shows the Power BI service interface for a workspace named "United FC [Development]". On the left, there's a sidebar with navigation links: Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The main content area displays a list of datasets: "Datamodel Sales", "Datamodel Sales", "Fanshop Sales Data", and "Reporting Sales". A modal window titled "Send link" is open over the list, showing the sharing details for "Reporting Sales". The modal includes a recipient input field ("People in your organization with the link can view and share"), a message input field ("Enter a name or email address"), a "Send" button, and sharing options like "Copy link", "Mail", "Teams", and "PowerPoint". The background shows a history of sharing activities.

Sharing options

Workspace

Individual content

App

Teams

Mobile App

Embedded

Default and the best way to share content within the organization.

The screenshot shows the 'Power BI Apps' interface. On the left is a navigation sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps (which is selected), Deployment pipelines, and Knowledge center. The main area has a green header bar with the text 'Default and the best way to share content within the organization.' The main content area is titled 'Apps' and contains the following information:

Name	Publisher	Published	App type	Version	Endorsement
United FC [Development]	Hylke Peek	1/6/23, 10:23:38 AM	Org app	—	—
Synapse Fanshop	Hylke Peek	1/5/23, 9:48:06 PM	Org app	—	—

Sharing options

Workspace

Individual content

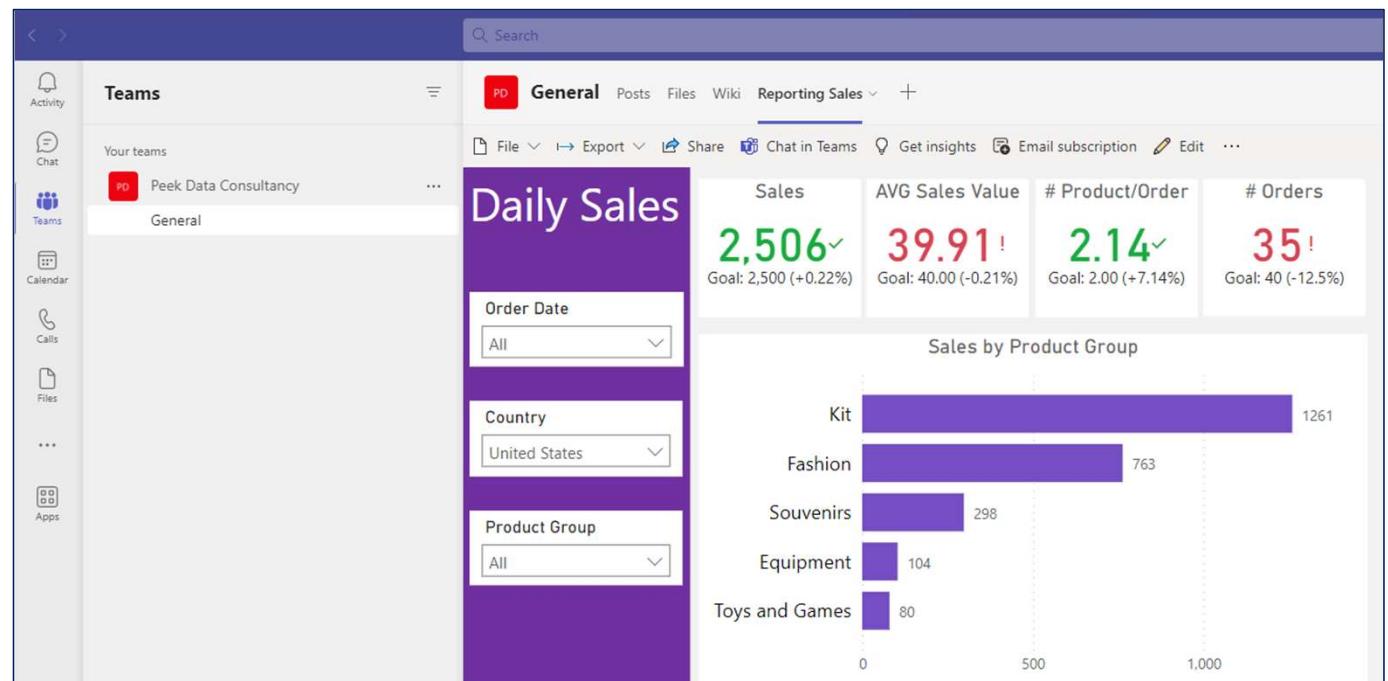
App

Teams

Mobile App

Embedded

Really good option to share content within the organization. Default enabled.



Sharing options

Workspace

Individual content

App

Teams

Mobile App

Embedded

Automatically available. You can build mobile optimized views.





Sharing options

Workspace

Individual content

App

Teams

Mobile App

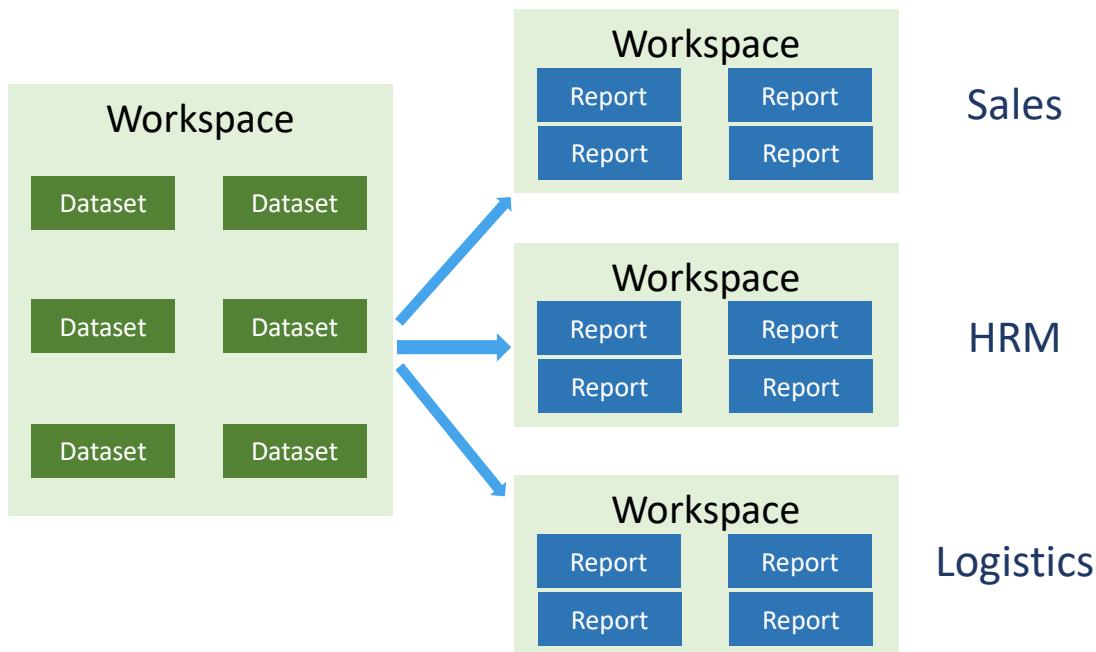
Embedded

Integrate reports in other applications.

The screenshot shows the Power BI interface with the title "Power BI United FC [Development]". On the left, there's a sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps, and Deployment pipelines. The "File" menu is open, showing options like Save a copy, Download this file, Print this page, Embed report (which is highlighted), Generate a QR code, Settings, SharePoint online, Website or portal, Publish to web (public), and Developer Playground. A blue arrow points from the "Embedded" box on the left towards the "Embed report" option in the sharing menu.

Build Permission – Shared Datasets

Re-use a dataset for multiple reports across workspaces.



Build Permission - Options

Workspace

App

Share report

Dataset

Request permission



Default permissions for Contributor, Member and Admin.

The screenshot shows the Power BI workspace interface for 'United FC [Development]'. On the left, there's a sidebar with options like Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The 'Workspaces' section lists 'United FC [Development]' and 'United FC [Development]'. The main area shows a list of content items: 'Datamodel Sales' (Report), 'Datamodel Sales' (Dataset), 'Fanshop Sales Data' (Dataflow), and 'Reporting Sales' (Report). To the right, there's a 'Access' panel with a sub-section for 'United FC [Development]'. It has a text input field 'Enter email addresses', a dropdown 'Member', and a large green 'Add' button. Below this, there's a table with columns 'NAME' and 'PERMISSION'. It lists three entries: 'External users' with 'Member' permission, 'Hylke Peek' with 'Admin' permission, and 'PowerBI_Access' with 'Admin' permission. There are also three ellipsis buttons at the end of each row.

NAME	PERMISSION
External users	Member
Hylke Peek	Admin
PowerBI_Access	Admin

Build Permission - Options

- Workspace
- App
- Share report
- Dataset
- Request permission



Set permissions through audiences during app publication.

The screenshot shows the 'Power BI Apps' interface with the 'Audience' tab selected. A specific audience named 'United FC [Development]' is highlighted. On the left, there's a navigation bar with options like Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The main area displays a 'Daily Sales' report card with metrics: Sales (2,506), AVG Sales Value (39.91), # Product/Order (2.14), and # Orders (35). Below the card is a bar chart titled 'Sales by Product Group' showing sales for Kit, Fashion, Souvenirs, Equipment, and Toys and Games. At the bottom is a table titled 'Top 5 Customers' with rows for DEV Olga J. Trau and DEV Peter Houston. On the right, there's a 'Manage Audience Access' section where 'Specific users or groups' is selected, and checkboxes for 'Allow people to share the datasets in this app audience' and 'Allow people to build content with the datasets in this app audience' are checked. A note says 'The advanced settings above are applicable to the audience including your workspace users.' At the bottom are 'Update app' and 'Cancel' buttons.

Build Permission - Options

Workspace

App

Share report

Dataset

Request permission



Set permissions when sharing individual reports.

The screenshot shows the Power BI workspace interface. A modal dialog titled "Send link Reporting Sales" is open, prompting the user to "Who would you like the link to work for?". It lists three options: "People in your organization" (selected), "People with existing access", and "Specific people". Below the list is a "Settings" section containing two checkboxes: "Allow recipients to share this report" (unchecked) and "Allow recipients to build content with the data associated with this report" (checked). The second checkbox is highlighted with a yellow border. At the bottom of the dialog are "Apply" and "Cancel" buttons.

Build Permission - Options

Workspace

App

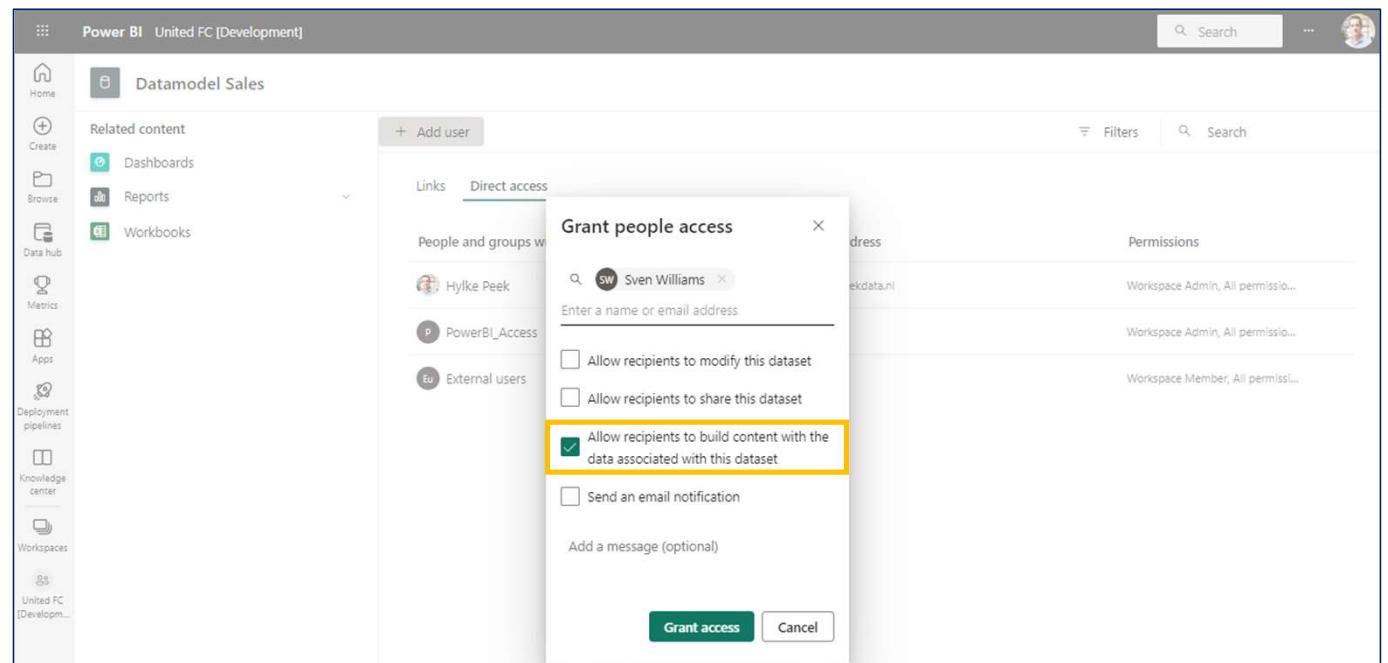
Share report

Dataset

Request permission



Set permissions to people who need access to this specific dataset.



Power BI - United FC [Development]

Datamodel Sales

Related content

- Home
- Create
- Browse
- Data hub
- Metrics
- Apps
- Deployment pipelines
- Knowledge center
- Workspaces
- United FC [Development]

Links Direct access

People and groups w...

+ Add user

Search

Filters

Search

Grant people access

Sven Williams

Enter a name or email address

Allow recipients to modify this dataset

Allow recipients to share this dataset

Allow recipients to build content with the data associated with this dataset

Send an email notification

Add a message (optional)

Grant access Cancel

dress

Permissions

ekdata.nl

Workspace Admin, All permis...

Workspace Admin, All permis...

Workspace Member, All permis...

Build Permission - Options

Workspace

App

Share report

Dataset

Request permission



A user requesting permission to the dataset.

The screenshot shows the Power BI Data hub interface. On the left, there's a sidebar with various navigation options like Home, Create, Browse, Data hub, Metrics, Apps, Knowledge center, Workspaces, and My workspace. The main area is titled 'Data hub' with the sub-section 'Recommended'. It lists three datasets: 'Datamodel Sales Dataflows', 'Sales reporting', and 'Datamodel Sales'. A modal window titled 'Request Build permissions' is open over the datasets. It contains the text: 'An email will be sent to the dataset owner requesting Build permission for this dataset.' Below this is a text input field with the placeholder 'Add a message (optional)' containing the text 'I need permission!'. At the bottom of the modal is a 'Send' button. In the top right corner of the screen, there's a Microsoft Teams-style message card. The card has a blue header with the text 'Sven Williams (sven@peekdata.nl) has requested Build access to the Power ...'. The message body says 'Microsoft Power BI <no-reply-powerbi@microsoft.com> To Hylke Peek'. It also includes a link: 'If there are problems with how this message is displayed, click here to view it in a web browser.' On the far right of the message card, there are icons for Microsoft and Power BI. The message card is timestamped at '15:31'. Below the message card, there's a table showing dataset details:

	Name	Type	Endorsement	Owner
	Sales reporting	Dataset	-	Hylke Peek
	Datamodel Sales Dataflows	Dataset	-	Sven Williams
	Datamodel Sales	Dataset	Certified	(Hidden)

At the bottom of the message card, there's a yellow 'Grant access >' button.





What would be the best way to share content in your organization? And why?



- Don't share reports to end-users through a workspace
- Keep control over people who have build permissions

People want to share with external users

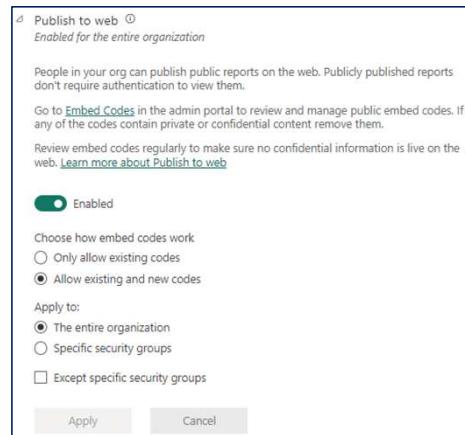
Few number of users

Power BI Embedded

Custom Branding

Few number of Users – Public Sharing

1. Enable setting in admin portal



2. Publish report or dashboard to Web

The screenshot shows the Power BI service interface. A context menu is open over a report, with the 'Publish to web (public)' option highlighted. A modal window titled 'Embed in a public website' provides instructions and a 'Create embed code' button.

3. Copy the url or html

The screenshot shows the 'Success! Your report is ready to share' dialog. It displays the URL (https://app.powerbi.com/view?r=eyJrIjoiMTdiNzcoI), an iframe code, and other sharing options like placeholder image and default page selection.

4. A new embed code has been created!

The screenshot shows the Power BI Admin portal's 'Embed Codes' section. It lists the newly created embed code for the 'Reporting Sales - Daily Sales' report by 'United FC [Development]'. The status is 'Active'.

Few number of Users – View content (B2B)

1. Enable setting(s) in admin portal

The screenshot shows two sections of the Azure Admin Portal under 'Power BI' settings:

- Allow Azure Active Directory guest users to access Power BI**: Enabled for the entire organization. Apply to: The entire organization.
- Invite external users to your organization**: Enabled for the entire organization. Apply to: The entire organization.

2. Invite user in AAD

The screenshot shows the 'New user' creation page in the Microsoft Azure Active Directory. The 'Select template' section has 'Invite user' selected. The 'Identity' section contains the following fields:

- Name: Hylke Peek
- Email address: hylke@denofdata.com
- First name: (empty)
- Last name: (empty)

3. User receives an email (and accepts)

The screenshot shows an email from Microsoft to Hylke Peek. The subject is 'Hylke Peek heeft u uitgenodigd voor toegang tot toepassingen in de organisatie'. The email body includes:

- From: Microsoft-uitnodigingen namens Peek Data Consultancy
- To: Hylke Peek | Den of Data
- Date: di 20-9-2022 10:09
- Message: Onderneem alleen actie naar aanleiding van deze e-mail als u de persoon en organisatie vertrouwt die hieronder worden weergegeven. In zeldzame gevallen kunnen individuele personen frauduleuze uitnodigingen ontvangen van kwadevillige gebruikers die zich voordoen als legitime bedrijven. Als u deze uitnodiging niet verwacht, ga dan voorzichtig te werk.
- Sender: Hylke Peek (hpeek@peekdata.nl)
- Organization: Peek Data Consultancy
- Domain: peekdata.nl

At the bottom, there is a button labeled 'Uitnodiging accepteren'.

4. Add user to an audience

The screenshot shows the 'Manage Audience Access' page for the 'United FC [Development]' audience. Under 'Grant access to':

- Entire organization (radio button is off)
- Specific users or groups (radio button is on):
 - Hylke Peek | Den of Data (highlighted in a callout box)

Below the list, there is a 'Workspace users' section.

Data security is possible for these external users!

Few number of Users – Manage content (B2B)

1. Enable setting(s) in admin portal

Allow Azure Active Directory guest users to edit and manage content in the organization
Enabled for a subset of the organization

Users can invite Azure Active Directory business-to-business (B2B) guest users to have the browse experience and request access to content. [Learn more](#).

Enabled

Apply to:

The entire organization
 Specific security groups

External users Enter security groups

Except specific security groups

Only guest users who meet the criteria can edit and manage content in the organization

2. Copy and share link

App link

United FC [Development]

Give people the link below, or direct them to Apps > Get apps in the Power BI service.

<https://app.powerbi.com/Redirect?action=OpenApp&appid=e8d45a8e->

3. Add user to workspace

Access

United FC [Development]

Add admins, members, or contributors. [Learn more](#)

Enter email addresses

Member

Search

NAME	PERMISSION	...
External users	Member	...
Hylke Peek	Admin	...
PowerBI_Access	Admin	...

The external users should use the link provided!

Power BI Embedded

The screenshot shows a Power BI dashboard titled "Peek Data Consultancy" set against a background of a cloudy sky over a field with wind turbines. The dashboard includes the following components:

- Daily Sales:** A summary card showing Sales (2,506), AVG Sales Value (39.91), # Product/Order (2.14), and # Orders (35). It also displays a goal for each metric.
- Order Date:** Filter dropdown set to "All".
- Country:** Filter dropdown set to "United States".
- Product Group:** Filter dropdown set to "All".
- Sales by Product Group:** A horizontal bar chart showing sales for Kit (1,261), Fashion (763), Souvenirs (298), Equipment (104), and Toys and Games (80).
- Sales by State:** A map of the United States where states are colored orange based on sales volume.
- Top 5 Customers:** A table listing customer details: DEV Olga J. Trau, DEV Peter Houston, DEV Janaina Barreiro, DEV Chad J. Tedford, and DEV Lee J. Chapla.
- State Performance:** A table showing state-wise performance metrics: Illinois, Michigan, Missouri, Oregon, Texas, Utah, Washington, and Wyoming.

Embed reports, dashboards, and tiles in a custom application

Can be used for internal and/or external users.

Embed your content for customers



'App owns data'



Use your own authentication method



App users don't need a Power BI license



The app doesn't use the client credentials to authenticate to Power BI but a service principal

Setup

1. Get Power BI Embedded or Premium

The screenshot shows the Microsoft Azure Marketplace page for 'Power BI Embedded'. It includes the service summary, user reviews (3.9 rating), and a 'Create' button.

2. Admin settings

The screenshot shows the 'Developer settings' section of the Power BI Admin settings. It lists two items: 'Embed content in apps' (Enabled for the entire organization) and 'Allow service principals to use Power BI APIs' (Enabled for a subset of the organization).

3. Service Principal

The screenshot shows the 'API permissions' section for a service principal named 'Peek Data Embedded App'. It lists permissions granted to the 'Azure Active Directory Graph' and 'Power BI Service'.

API / Permissions name	Type	Description
App.Read.All	Delegated	View all Power BI apps
Content.Create	Delegated	Create content
Dashboard.Read.All	Delegated	View all dashboards
Dashboard.ReadWrite.All	Delegated	Read and write all dashboards

4. Workspace settings

The screenshot shows the 'Settings' dialog box for a workspace named 'United FC Embedded'. It includes sections for 'About', 'Premium' (selected), and 'Azure connections'. Under 'Premium', it shows license mode (Embedded selected), capacity selection (pbepeekdatashopsales - West Europe), and workspace connection (powerbi://api.powerbi.com/v1.0/myorg/United%20FC%20Embedded). A 'Copy' button is at the bottom.

Custom branding

Custom branding

Customize the look of Power BI for your whole organization. Learn more

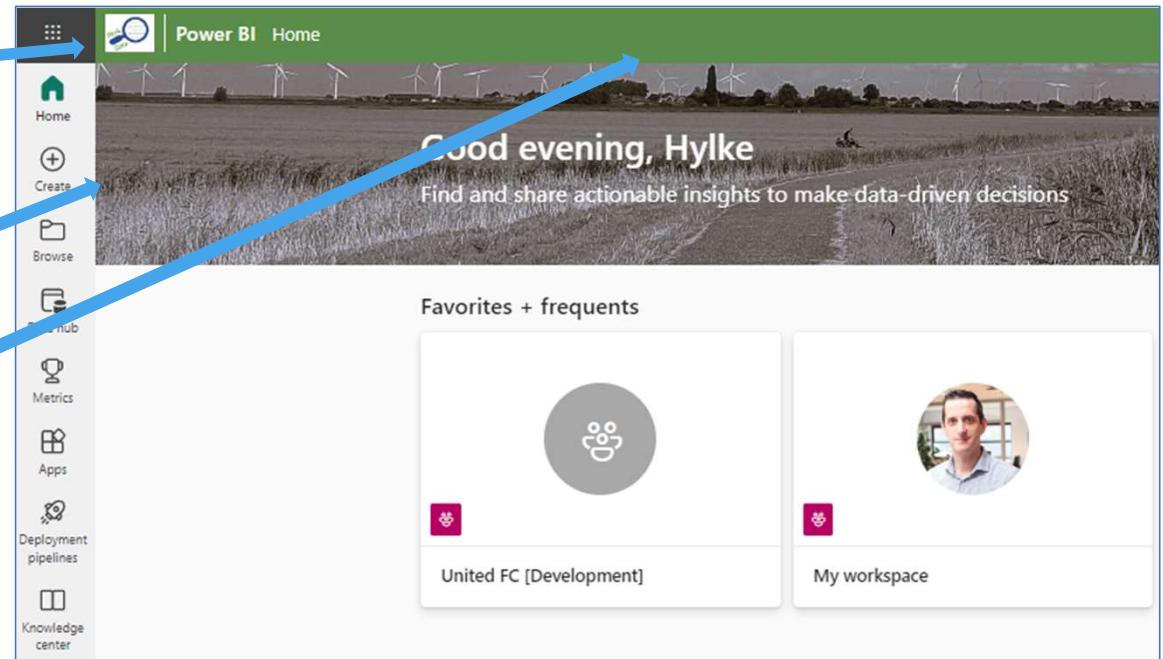
Logo
For best results, upload a logo that's saved as a .png or .jpg, 1 MB or smaller, and at least 200 x 30 pixels.



Cover image
For best results, upload a cover image that's saved as a .jpg or .png, 1 MB or smaller, and at least 1920 x 160 pixels.



Theme color
 #5B8E4A

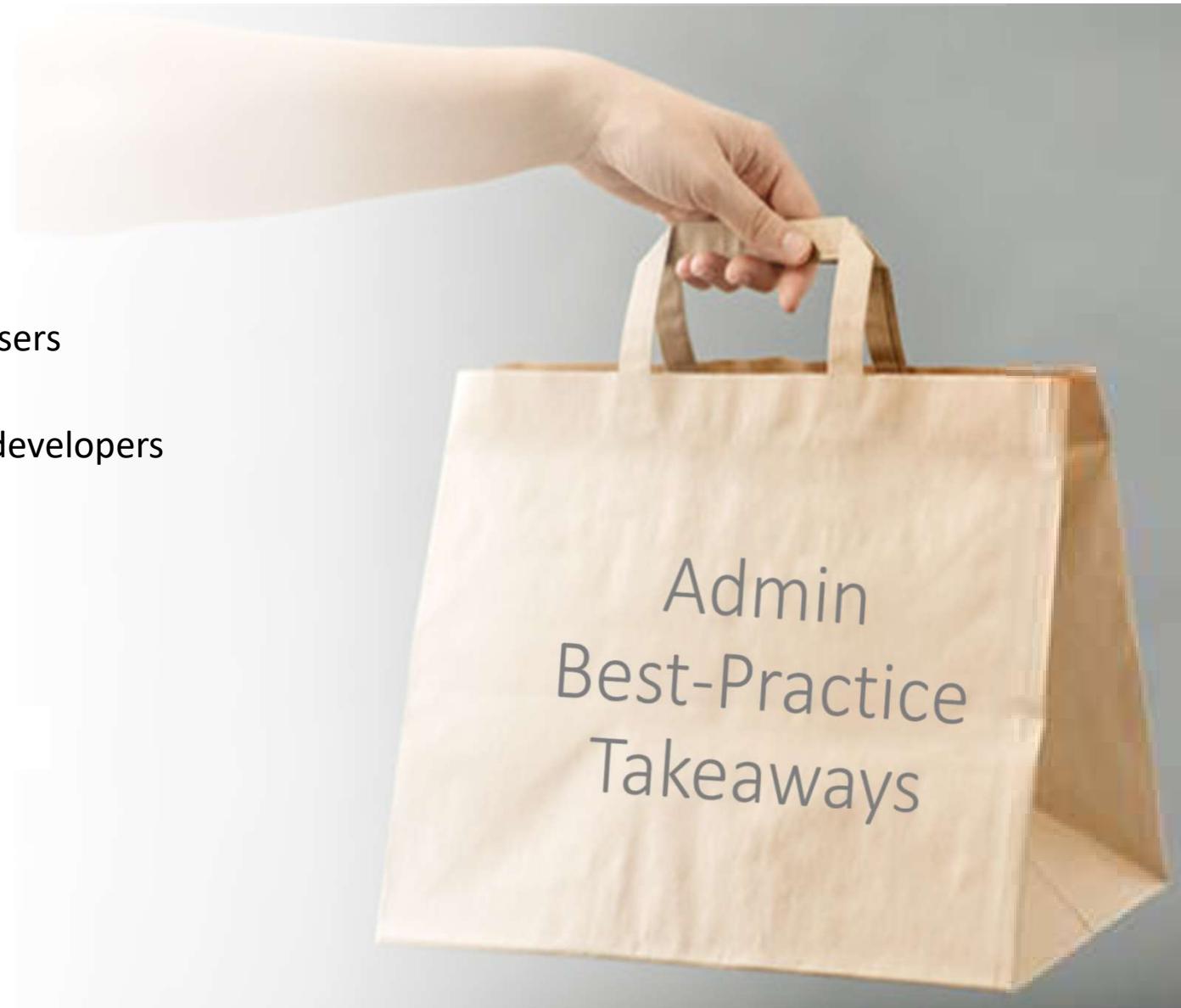


The screenshot shows the Power BI Home page with a green header bar. The header displays the 'Power BI' logo and the text 'Home'. Below the header, there is a banner with a landscape image of wind turbines and the text 'Good evening, Hylke' followed by 'Find and share actionable insights to make data-driven decisions'. To the right of the banner, there is a section titled 'Favorites + frequents' containing two items: 'United FC [Development]' and 'My workspace', each with a small thumbnail image. On the far left, a vertical sidebar lists various navigation options: Home, Create, Browse, Content hub, Metrics, Apps, Deployment pipelines, and Knowledge center. Blue arrows from the 'Custom branding' interface on the left point to the 'Logo', 'Cover image', and 'Theme color' sections on the right side of the screenshot.

This is visible for everyone and can't be overwritten.



- Create separate group(s) for external users
- Discuss different sharing options with developers





Some Power BI administration questions.



Premium

When is Power BI Premium relevant?



500+ users



Enterprise scale:

- Multiple large models (100 GB+)
- Geographic distribution



Development requirements

- Deployment pipelines
- XMLA-endpoint
- Dataflows



Advanced Analytics

Power BI Premium Features

Platform	Data	Development	End-user
Capacity	Automatic aggregations	Deployment pipelines	Datamarts
Auto scale V-Cores	Asynchronous refresh	Dataflows	Insights
BYOK	Hybrid tables	XMLA endpoint	Advanced AI
Multi-geo deployment	Query caching	Power BI embedded	
Back-up and restore	Model size limit		

Power BI Premium Features

Platform	Data	Development	End-user
Capacity	Automatic aggregations	Deployment pipelines	Datamarts
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Multi-geo deployment	Query caching	Power BI embedded	
Back-up and restore	Model size limit		

Capacity – Embedded vs Premium

	Embedded	Premium
Use case	Embed visuals into their own applications for external users.	Same as Embedded. And share content within your organization at enterprise level.
Licensing	Same as Premium, but using A SKUs	Same as Embedded, but using EM and P SKUs
Billing	Hourly	Monthly / Yearly
Other	Missing some features like Power BI Report server and Unlimited content sharing	All features

Capacity - Licensing

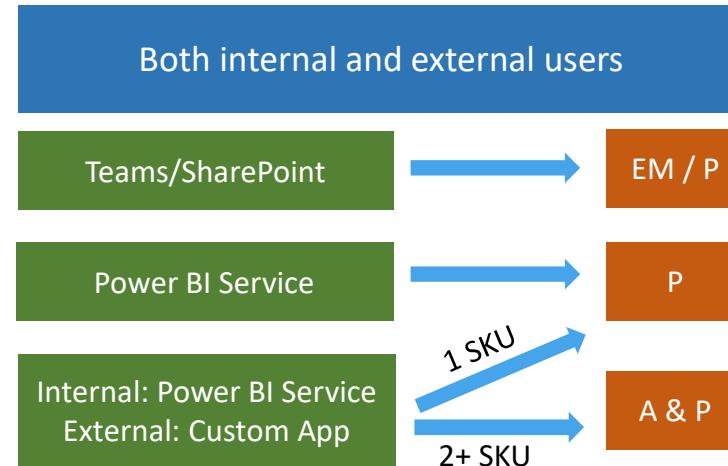
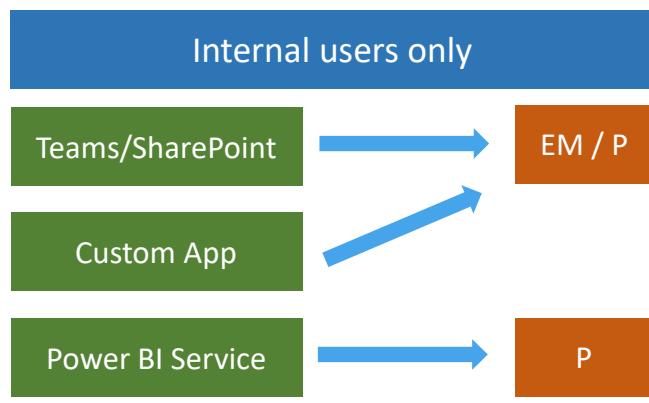
A set of resources for exclusive use. Previously known as '*Dedicated Capacity*'.

Capacity SKUs	Dataset				Dataflow		Export API
	V-cores	Max memory (GB)	DirectQuery/Live connection (per second)	Max memory per query (GB)	Model refresh parallelism	Dataflow parallel tasks	
EM1/A1	1	3	3.75	1	5	4	20
EM2/A2	2	5	7.5	2	10	8	25
EM3/A3	4	10	15	2	20	16	35
P1/A4	8	25	30	6	40	32	55
P2/A5	16	50	60	6	80	64	95
P3/A6	32	100	120	10	160	64	175
P4/A7	64	200	240	10	320	64	200
P5/A8	128	400	480	10	640	64	200

Microsoft.com

You can have multiple SKUs.

Which capacity do I need?



Assign workspaces to a capacity

High workloads

Premium Capacity P3 (32 vCores)

App and Workspace
Sales

App and Workspace
Finance

App and Workspace
Production

Low workloads

Shared Capacity

Personal
Workspaces

App and Workspace
Inventory

Multiple capacities

You buy a total capacity size, not just 1 capacity.

Premium Capacity P3 (32 vCores)

App and Workspace
Sales

App and Workspace
Finance

App and Workspace
Production



Premium Capacity P2 (16 vCores)

App and Workspace
Sales

Premium Capacity P1 (8 vCores)

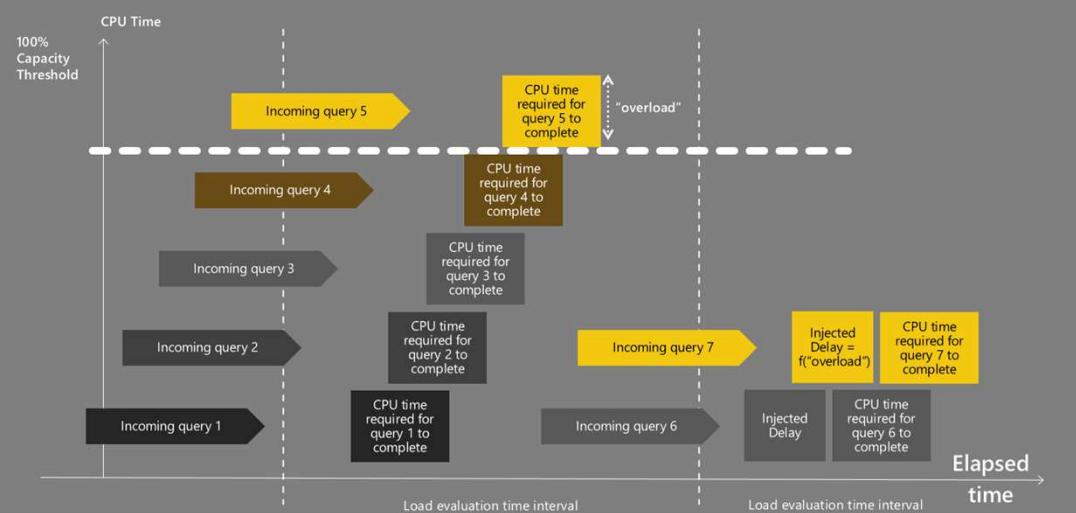
App and Workspace
Finance

Premium Capacity P1 (8 vCores)

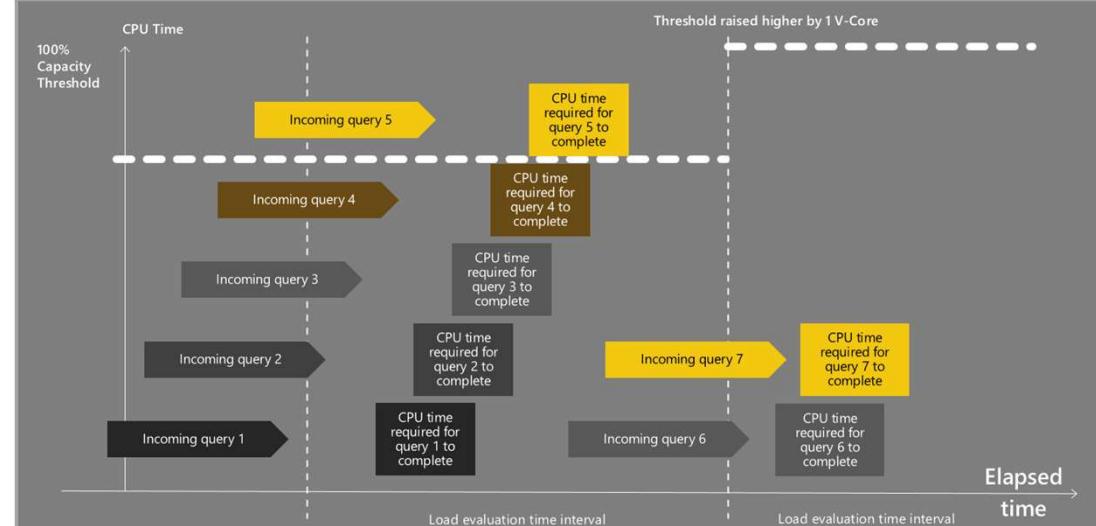
App and Workspace
Production

Auto-scale V-Cores

Overload



Autoscale



Microsoft.com

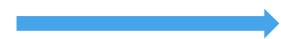
Microsoft.com

Capacity needed is calculated by:

- Calculations completed within the 30 seconds interval
- Average of background processes over the last 24 hours (Data refreshes, subscriptions, XMLA-writes)

Configure Auto-scale

Resourcegroup in azure



Create a new resourcegroup or use an existing one.

Microsoft Azure Search resources, services, and docs (G+/-) ...

Home > Resource groups > Create a resource group X

Basics Tags Review + create

Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. [Learn more](#)

Project details

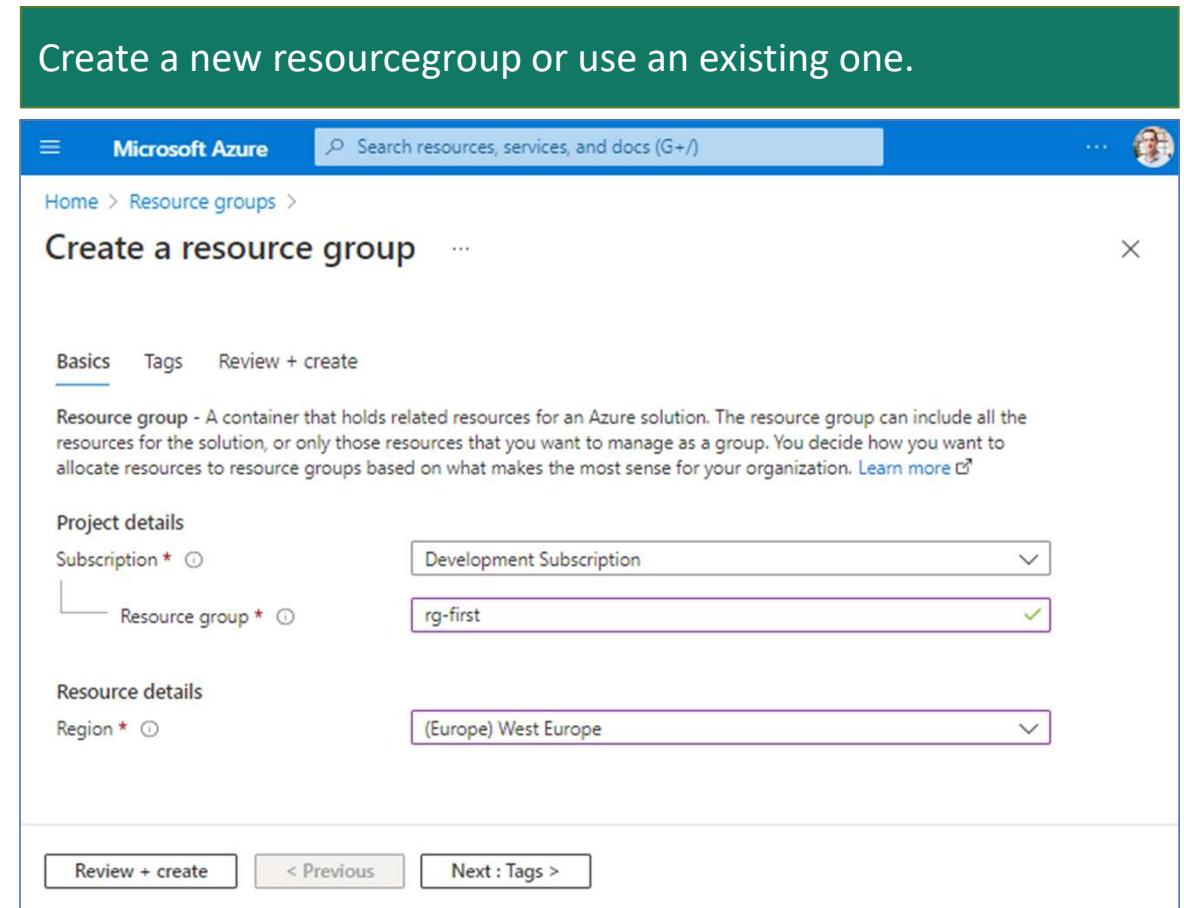
Subscription * Development Subscription

Resource group * rg-first ✓

Resource details

Region * (Europe) West Europe

Review + create < Previous Next : Tags >

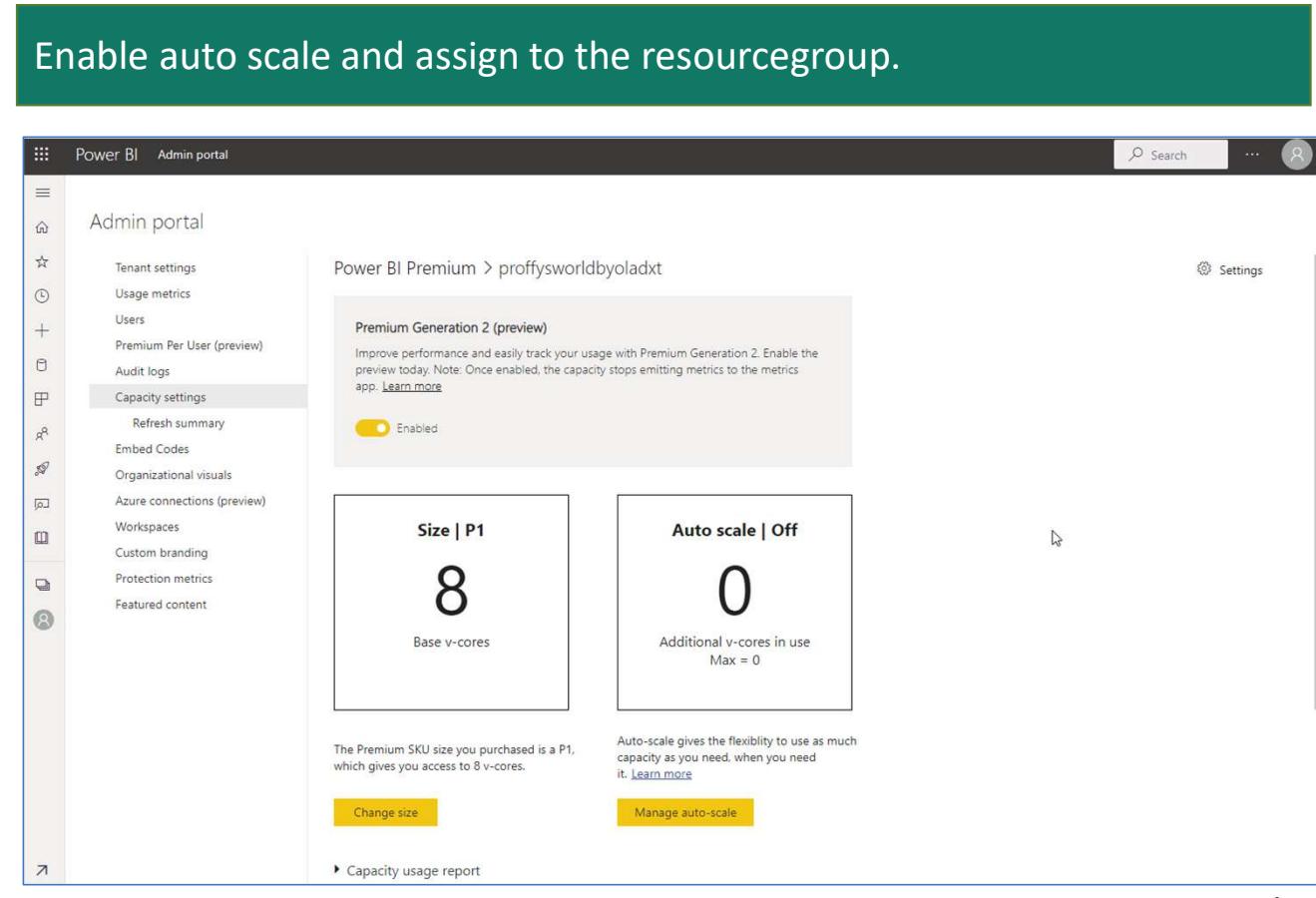


Configure Auto-scale

Enable Auto-scale



Enable auto scale and assign to the resourcegroup.



Power BI Admin portal

Admin portal

Tenant settings

Usage metrics

Users

Premium Per User (preview)

Audit logs

Capacity settings

Refresh summary

Embed Codes

Organizational visuals

Azure connections (preview)

Workspaces

Custom branding

Protection metrics

Featured content

Power BI Premium > proffysworldbyoladxt

Premium Generation 2 (preview)

Improve performance and easily track your usage with Premium Generation 2. Enable the preview today. Note: Once enabled, the capacity stops emitting metrics to the metrics app. [Learn more](#)

Enabled

Size | P1

8

Base v-cores

The Premium SKU size you purchased is a P1, which gives you access to 8 v-cores.

[Change size](#)

Auto scale | Off

0

Additional v-cores in use
Max = 0

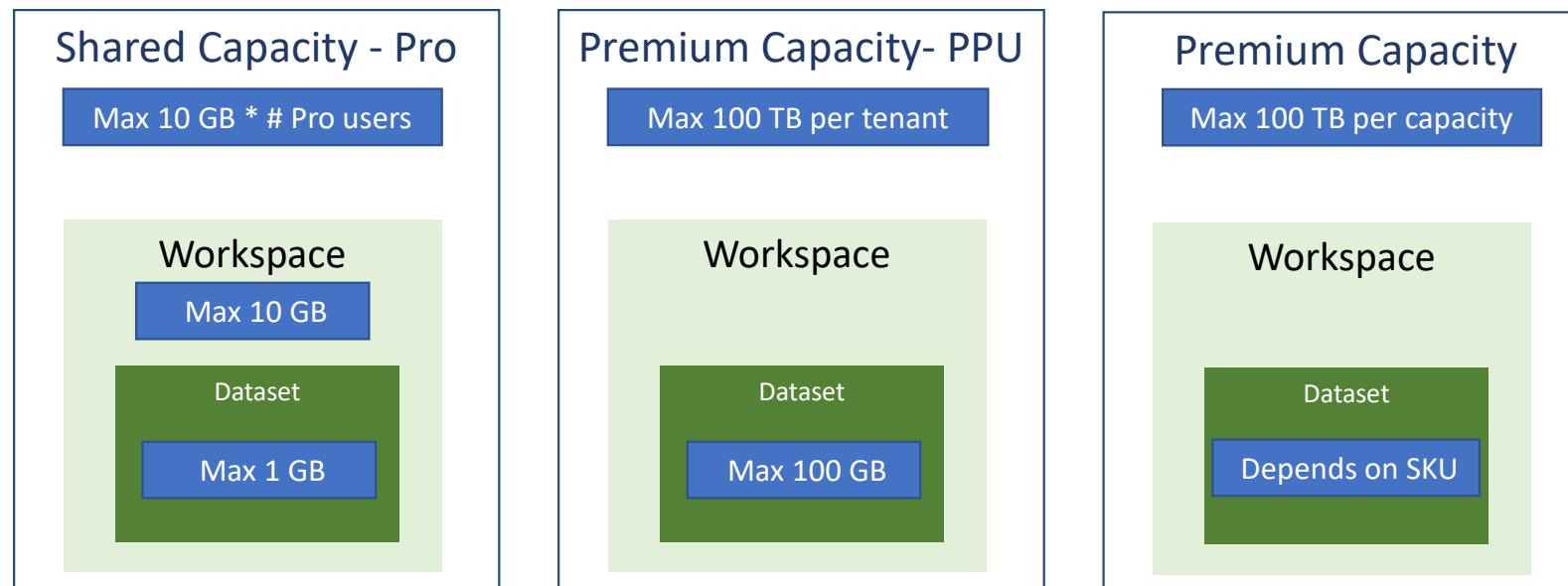
Auto-scale gives the flexibility to use as much capacity as you need, when you need it. [Learn more](#)

[Manage auto-scale](#)

Capacity usage report

Microsoft.com

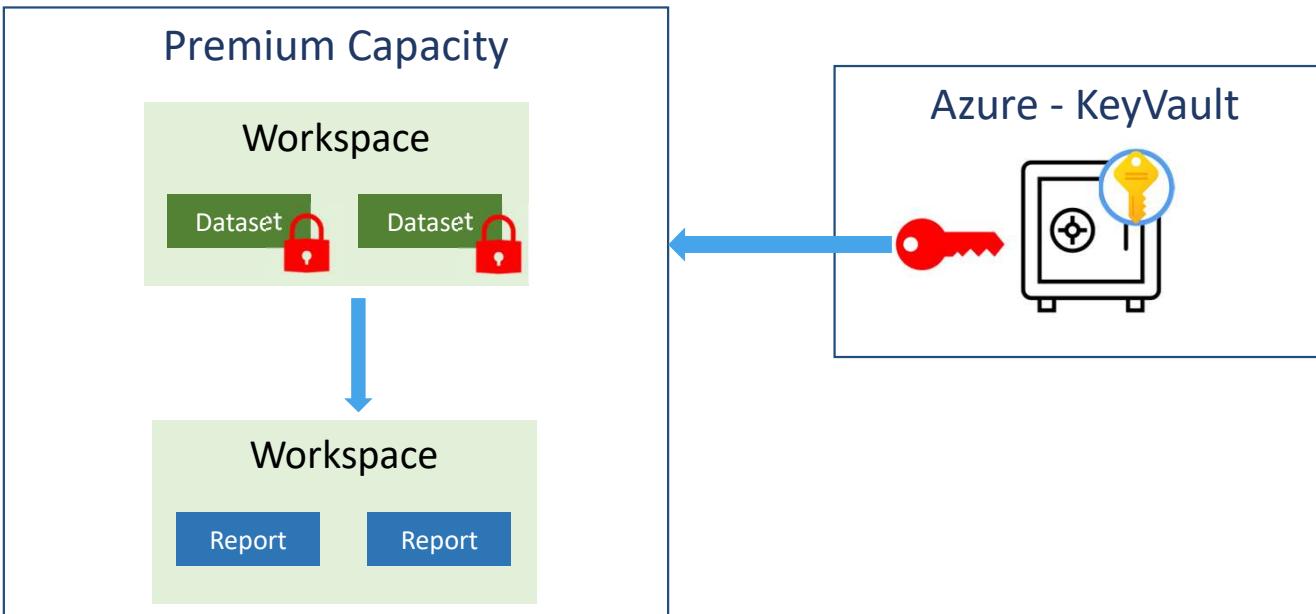
Capacity and Model size limit



P1 → +- 25 GB
P2 → +- 50 GB
P3 → +- 100 GB
P4 → +- 200 GB
P5 → +- 400 GB

BYOK

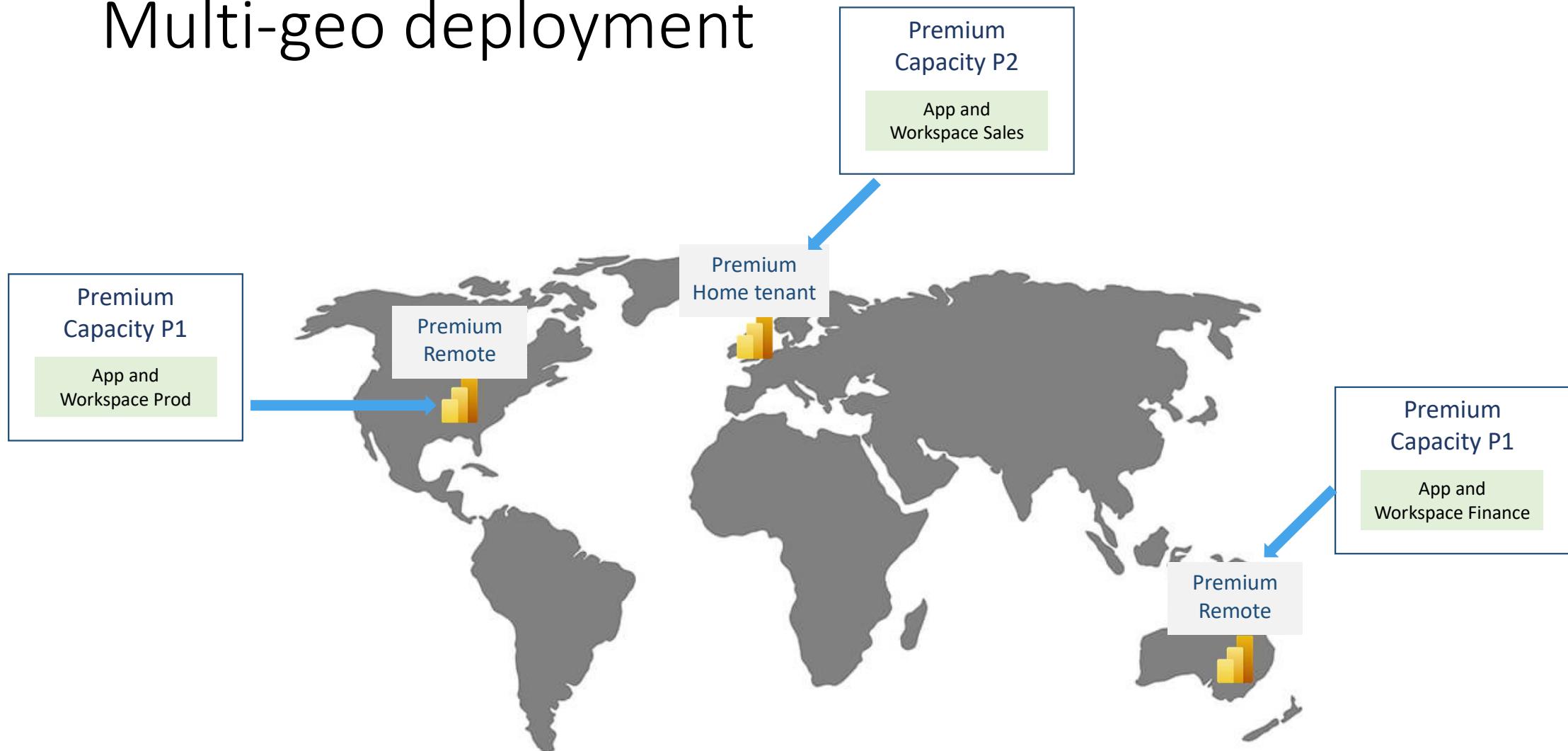
Use your own key to encrypted data at rest for imported datasets



Not available for:

- Live connections
- Other objects like reports, streaming datasets, and Excel-workbooks.
- Power BI Goals

Multi-geo deployment



Multi-geo deployment

Supports residency requirements

Region is not 1 location

All workspace content resides in that region

You can change regions for capacities

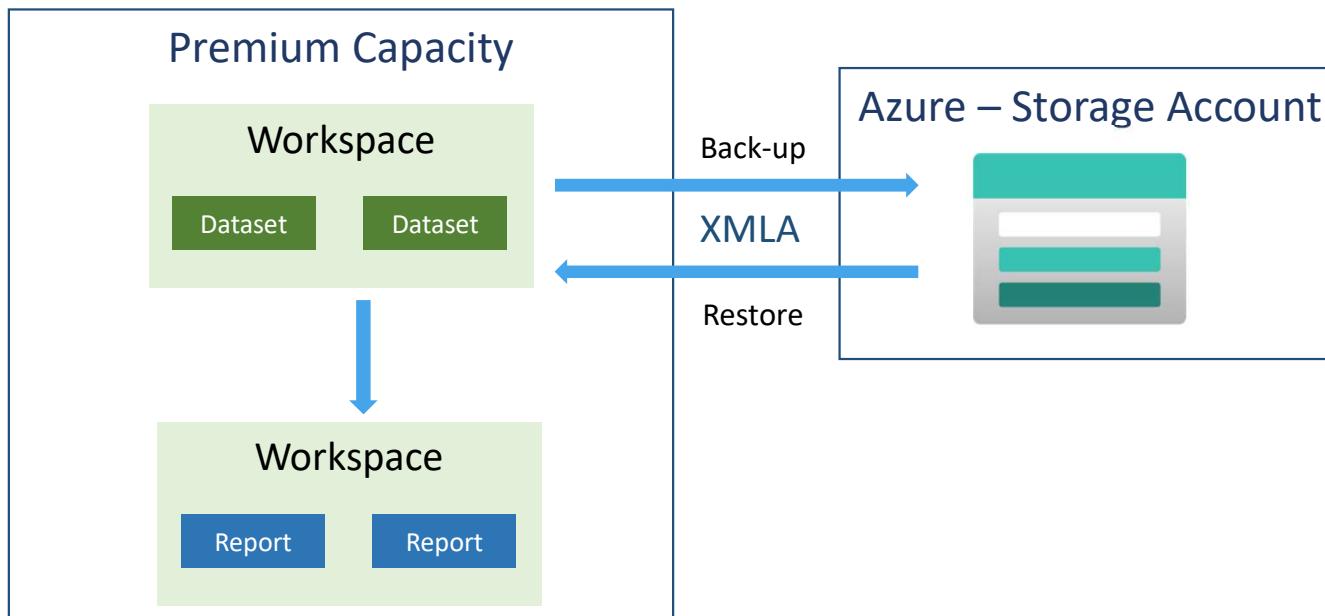
Dataflows isn't supported on remote regions



Stored in Capacity Region	Always stored in Home Region
Data models	Excel Workbooks
Query cache	Metadata like tile names, permissions and credentials

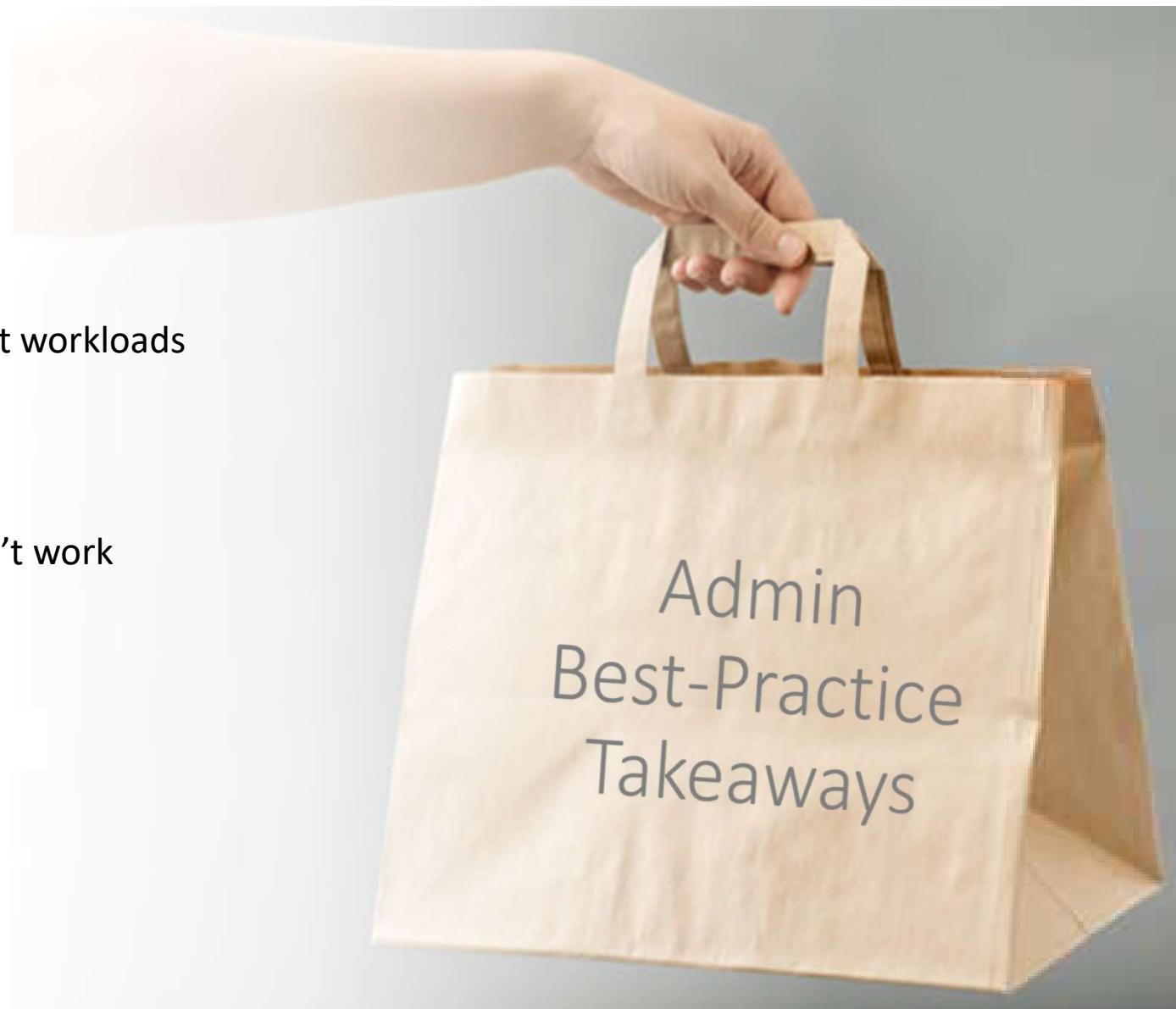
Back-up and restore

Back-up and restore dataset using your storage account



Use SQL Server Management Studio (**SSMS**), **PowerShell** or any other tool that can handle XMLA-endpoints.





- Use multiple capacities to split different workloads
- Use large data format as default
- Use auto scale when other options don't work

Development

XMLA-endpoint

Dataflows

Incremental Refresh

Power BI Rest API

Query Caching

Deployment

External Tools



XMLA-endpoint

A connectivity channel between applications and the SSAS engine running Power BI datasets



Premium Capacity

Workspace

Dataset

Dataset

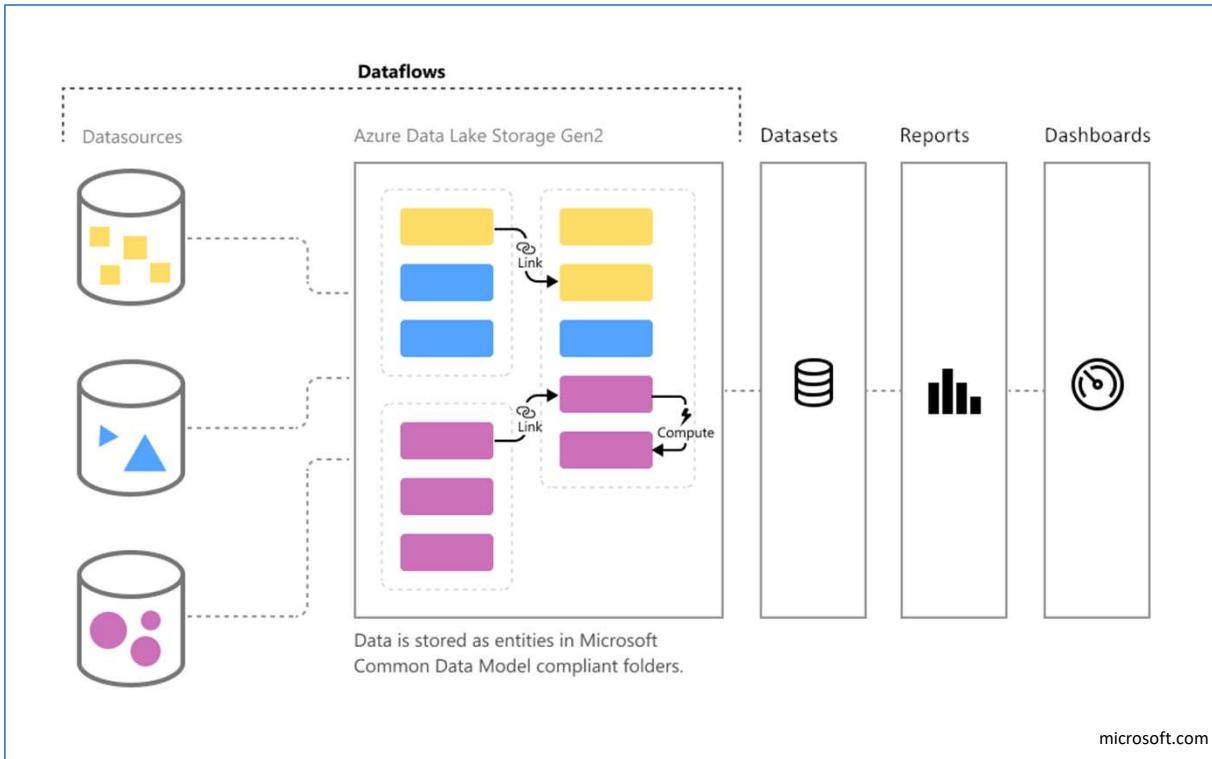
Why use this?

Using other tools for development

Querying for monitoring

Automated deployment

Dataflows



Why use this?

Reuse integration and transformation

Reuse output in other applications

Deliver a defined set of entities to analysts who can build their own models

Perform ETL at scale in Power BI

It's not a replacement for a datamart or datamodel!

Dataflows and ADLS Gen2

1. Set Tenant-assigned ADLS Gen2 account

Admin portal

Tenant settings
Usage metrics
Users
Premium Per User
Audit logs
Capacity settings
 Refresh summary
Embed Codes
Organizational visuals
Azure connections
Workspaces
Custom branding
Protection metrics
Featured content

Connect to Azure resources

▫ Tenant-level storage
 Connect an Azure Data Lake Gen2 storage account. [Learn more](#)
 Subscription 5adfc066-d6af-41ab-b19f-7451f9a75ba1
 Resource group rg-peekdata-unitedfc
 Storage account saapeekdatashopsales
 Configured by Hylke Peek on 2023-01-23T12:00:00Z
 Disconnect from Azure

▫ Workspace-level storage permissions
 Allow workspace admins to connect their own storage account

Save **Cancel**

First assign a storage before creating a dataflow

Unassign ADLS involves manual recreation

2. Assign storage to workspace

Settings

United FC [Development]

About Premium **Azure connections**

▫ Storage
 Connect an Azure Data Lake Gen2 storage account. [Learn more](#)
 Connect to Azure
 Use the default Azure connection

3. Create dataflow

Power BI United FC [Production] Fanshop Sales Data | ...

Tables Machine learning models

TABLE NAME	TABLE TYPE	ACTIONS
Customer	Custom	
Product	Custom	
Productgroup	Custom	
SalesorderDetail	Custom	
SalesorderHeader	Custom	

4. Check-out your data in ADLS

Search for resources Refresh All

Upload Download Open Preview New Folder Select All Copy Paste

powerbi > United FC [Production] > Fanshop Sales Data

Name	Access Tier	Last Modified
Customer.csv.snapshots		
Product.csv.snapshots		
Productgroup.csv.snapshots		
SalesorderDetail.csv.snapshots		
model.json.snapshots		
SalesorderHeader.csv	Hot (inferred)	
model.json	Hot (inferred)	



Dataflows: Enhanced compute engine

Optimize the use of dataflows

Perform direct queries over dataflow entities

Reduce refresh time of long-running dataflows using joins, distinct, filters, and group by

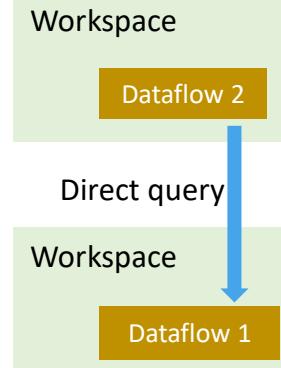
Disabled

Enabled

Optimized

Default disabled. Enables when dataflow is referenced by a table or other dataflow

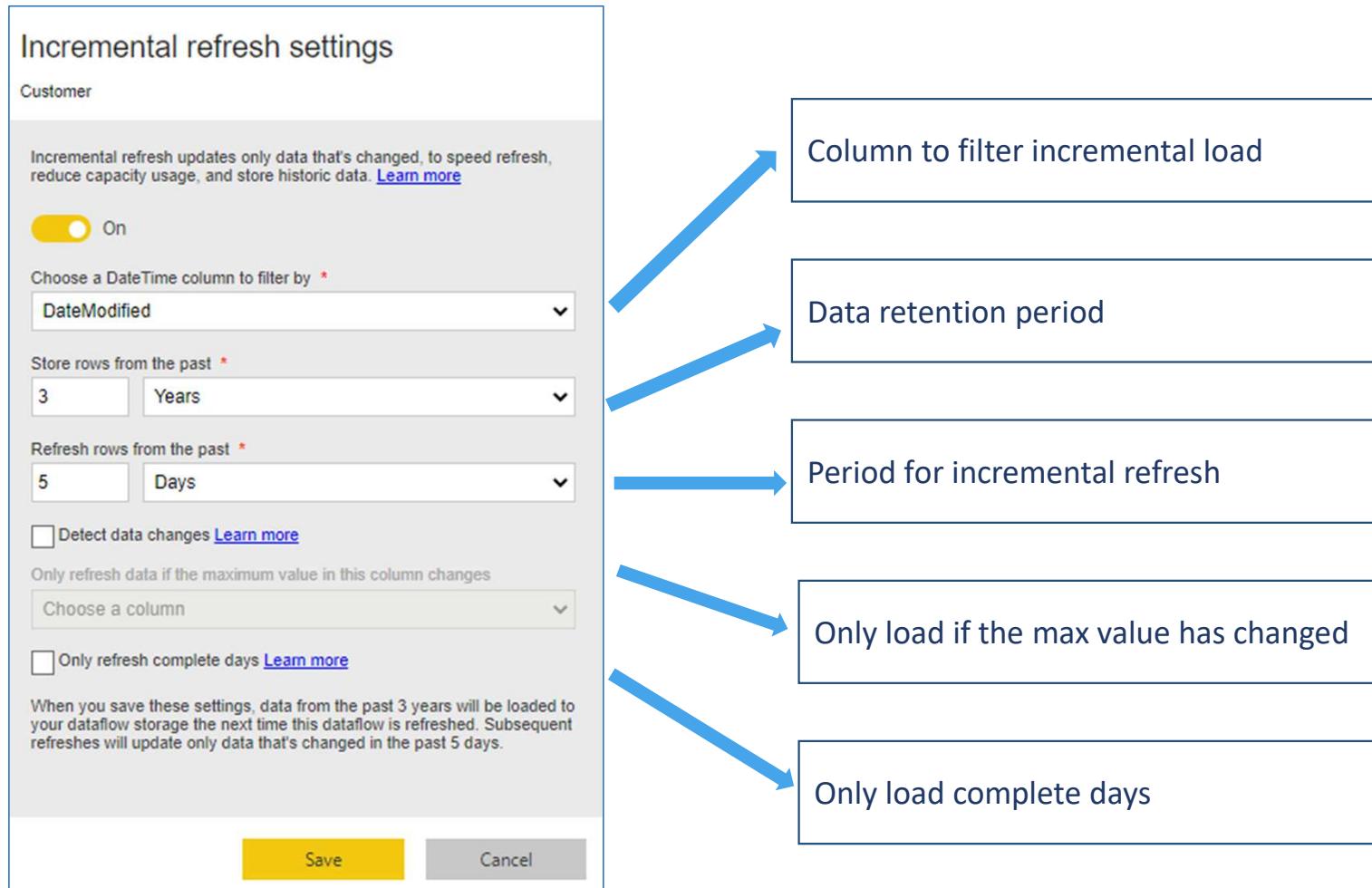
Premium Capacity



It only works on top of a dataflow and within the capacity!



Incremental Refresh



Power BI Rest Api

A (huge) set of web services that can work with Power BI objects



Automate deployment



Monitoring



Automate management tasks



Embed reports in custom apps



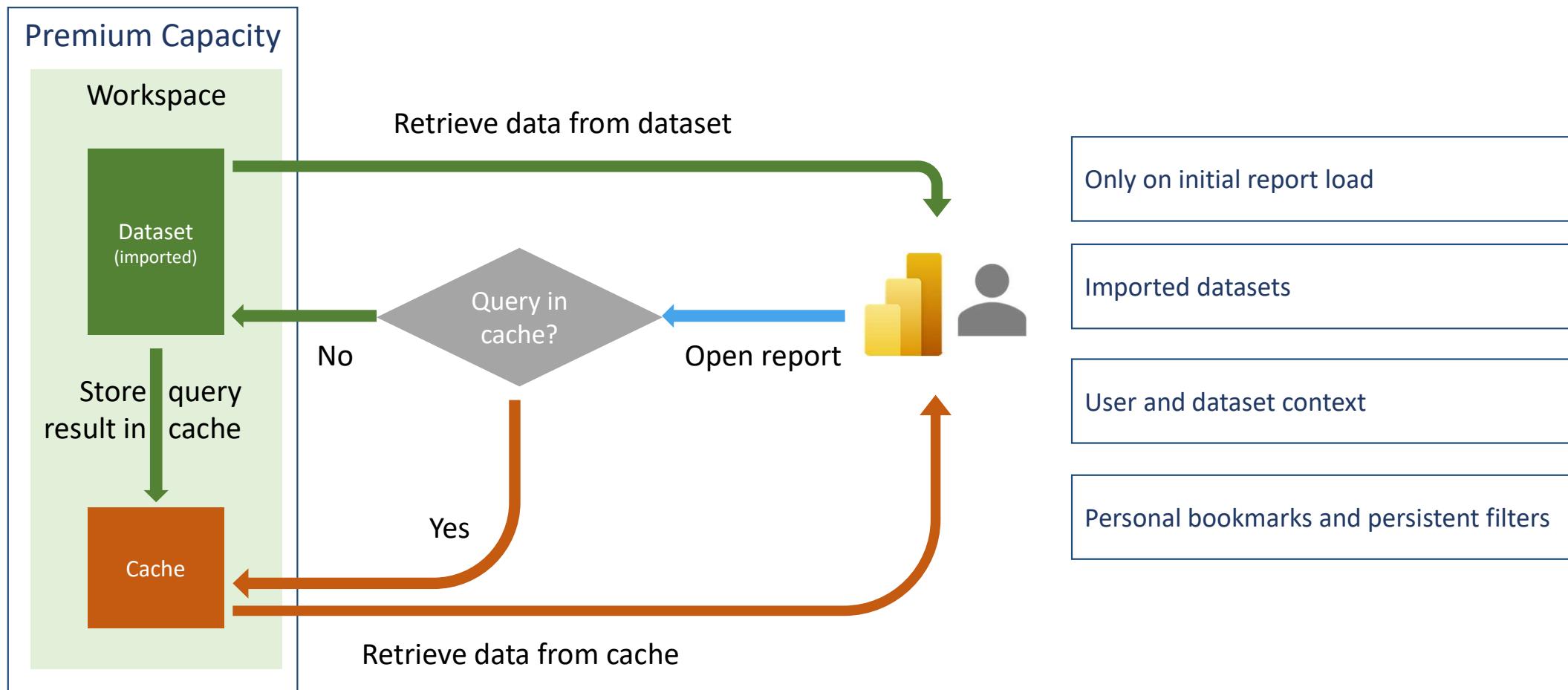
Refresh datasets



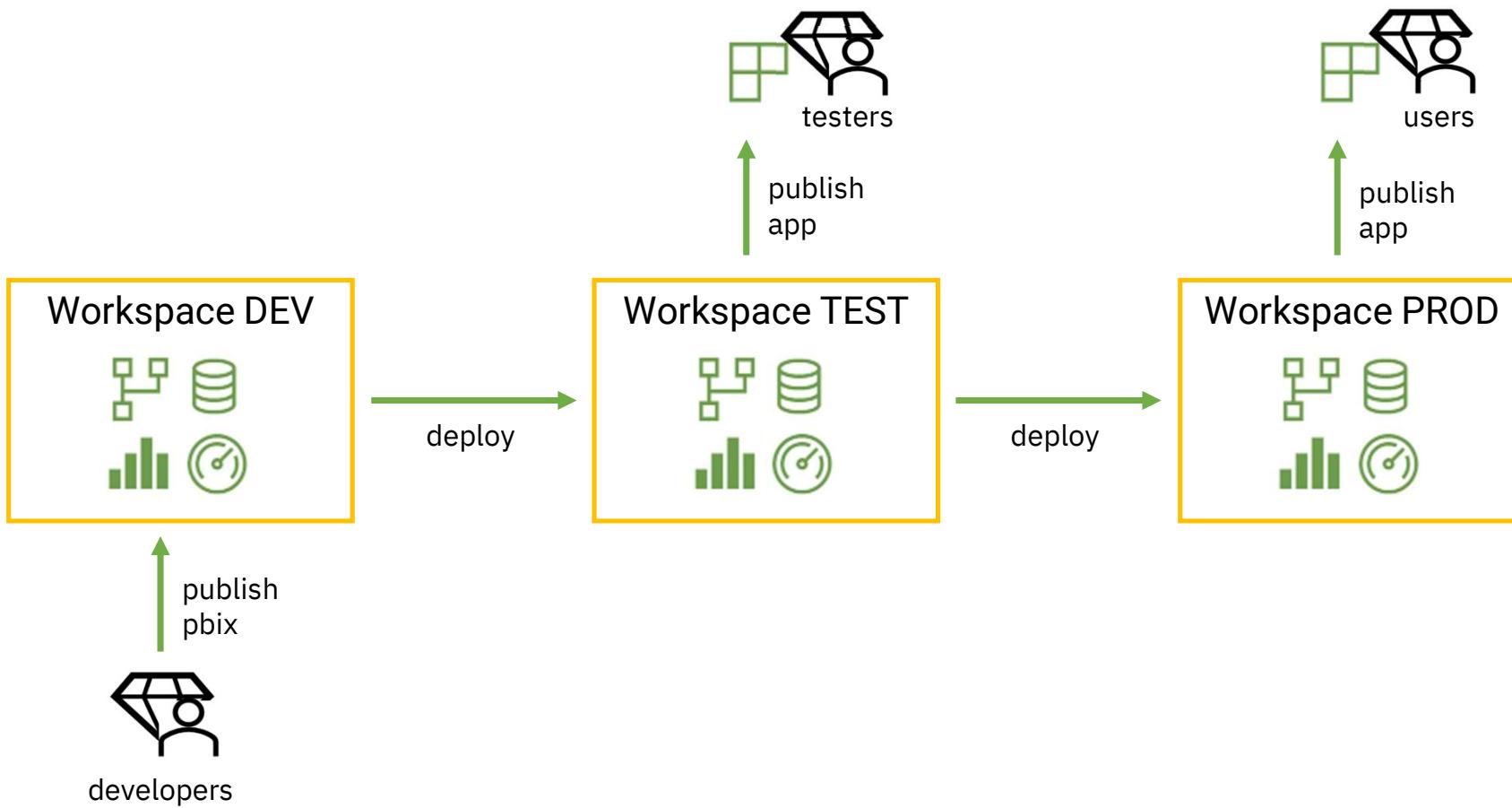
Back-up scenarios



Query caching



Deployment Pipelines



Azure DevOps deployment



Central source location



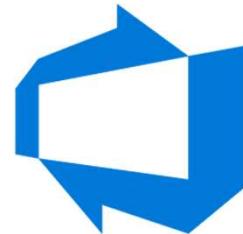
Versioning



Track and merge changes



Easy deployment



Azure DevOps

External Tools



PBI Tools



POWER BI SENTINEL





- Enhanced Compute Engine: It takes memory which other dataflows cannot use. So, if you don't need this, don't turn it on.
- If you're not using Rest API yet, start with it.
- Ensure good management of Service Principals

Data Governance and Security

Storage Location

Privacy Levels

Data Security

Endorsement

Monitoring and auditing

Purview

Storage location



What does Power BI store?

Daily Sales

Sales: 2,506 ✓ Goal: 2,300 (+0.22%)

Avg Sales Value: 39.91 ✓ Goal: 40.00 (-0.21%)

Product/Order: 2.14 ✓ Goal: 2.00 (+7.14%)

Orders: 35 ✓ Goal: 40 (-12.5%)

Order Date: All

Country: United States

Product Group: All

Sales by State

Sales by Product Group

Category	Sales
Kit	1,261
Fashion	763
Souvenirs	296
Equipment	164
Toys and Games	80

Top 5 Customers

Customer	Sales	Avg Sales Value	# Products / Order	# Orders
DEV Olga J. Trujillo	254,00	39.70	4.50	5
DEV Peter Houston	217,00	54.26	2.00	2
DEV Janaina Barreiro	215,00	46.67	6.00	1
Gambino Bueno	35,00	17.50	1.00	1
DEV Chad J. Tedford	210,50	39.70	2.33	3
DEV Lee J. Chapla	173,50	51.50	4.00	1
Total	1,070,00	45.73	3.33	9

United FC

Reports

Book1 - Microsoft Excel

A	B	C	D	E	F	G	H	I	J
NAME	DESC	ASSOCDSP	PVEUH	PVEUL	EU	PVFORMAT	PARENTSET		
1 FFC011	MEROX PREWASH LEAN CAUSTIC	005_S173	100.00	0.00	GPM	D2			
2 FFC013	MEROX PREWASH TAN CAUSTIC	005_S173	20.00	0.00	GPM	D2			
3 FFC020	CAUSTIC CIRC TO SETTLER	005_S182	57.00	0.00	GPM	D2			
4 FFC022	STEAM COOL FR NAOH HTR	005_S182	2.00	0.00	GPM	D8			
5 FFC027	PLANT AIR TO OXIDIZER	005_S182	8,850.00	0.00	SCFH	D0			
6 FFC031	WASH OIL TO PU70/71	005_S182	6.00	0.00	GPM	D3			
7 FFC032	CAUSTIC CIRC TO SETTLER	005_S182	50.00	0.00	GPM	D2			
8 FFC034	WASH OIL TO PU70/71	005_S182	3.40	0.00	GPM	D8			

Excel Workbooks

Fields

- KPI's
- Customer
- Address
- City
- Country
- State
- Postalcode
- Customer
- Customer
- Product
- Product Group
- Sales Order Details
- Sales Order Header

Data inside the model

Data source settings

Manage settings for data sources that you have connected to using Power BI Desktop.

Data sources in current file Global permissions

Search data source settings

srv-shopsales.database.windows.net;sqlShopSales_dev

Connection information

Properties

Customer

Sales Order Header

Sales Order Details

Product

Datamodel

Data location

The first user signing up for Office365 selects a country.



Microsoft Power BI

Create your account

First name Last name
Create password
Confirm your password
We sent a verification code to malcolm@brainsells.com.au. Enter the code to complete signup.
Verification code
Where's your company located?
[Not seeing your country or region?](#)
By choosing Start, you agree to our [terms and conditions](#) and understand that your name and email address will be visible to other people in your institution. [Microsoft Privacy Policy](#)
Start

Azure region

Organization (tenant)



Data Source privacy levels

Privacy levels define how data sources within a datamodel are isolated from each other.

Desktop

Edit Permissions

srv-shopsales.database.windows.net;sqlShopSales_dev

Credentials
Type: Not Specified
[Edit...](#) [Delete](#)

Encryption
 Encrypt connections

Privacy Level
[None](#) [None](#) [Public](#) [Organizational](#) [Private](#)
[Revoke Approvals](#)

Queries for this

[OK](#) [Cancel](#)

Service

Data source type: SQL Server

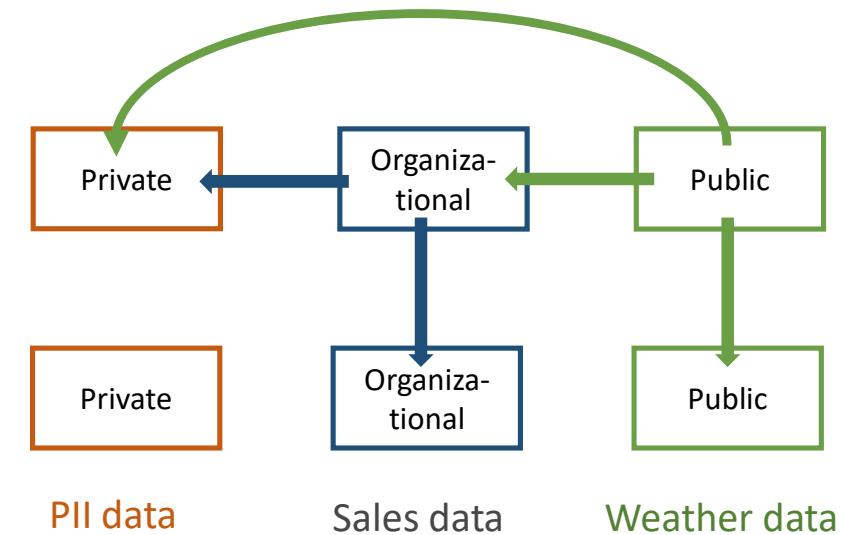
Server: srv-peekdata-shopsales.database.windows.net

Database: sql_peekdata_shopsales_dev

Authentication
Authentication method *
Basic
Username *
Password *

None
Private
Organizational
Public
Organizational

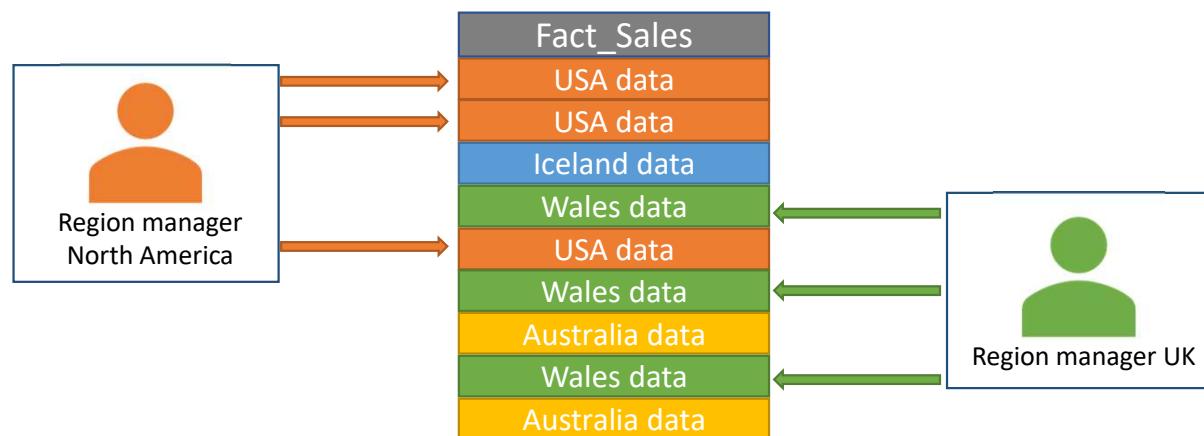
[Save](#) [Close](#)



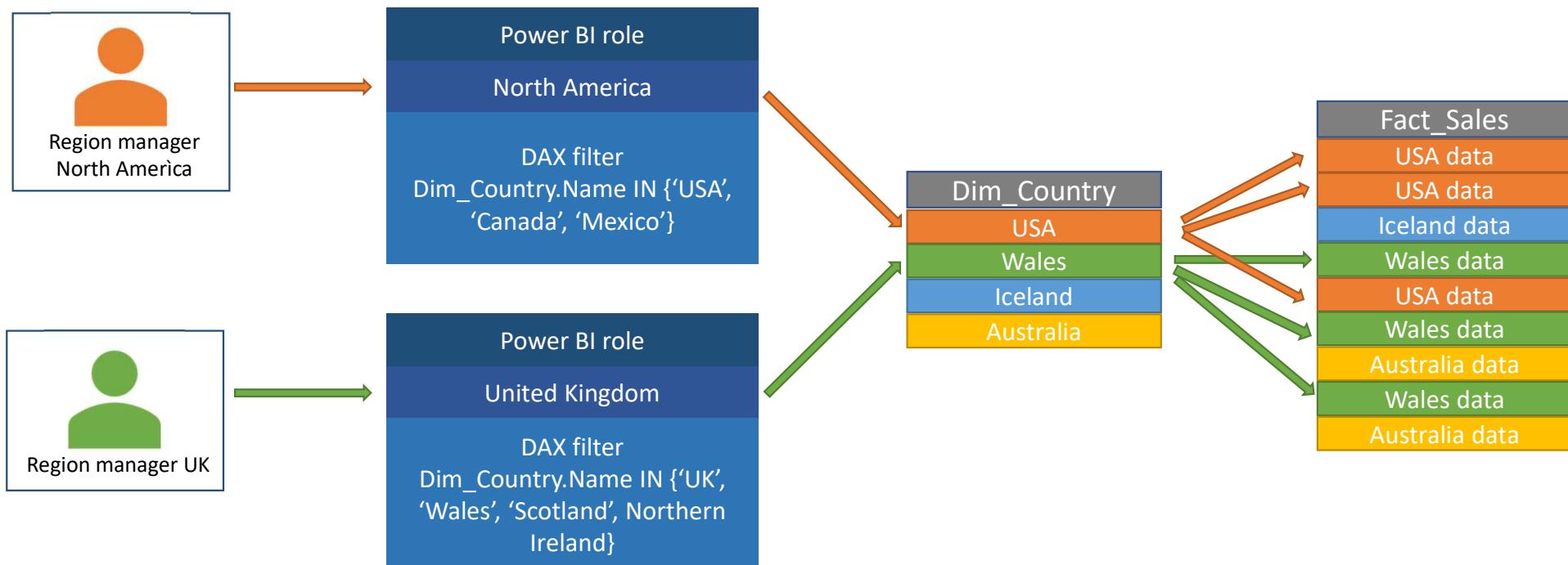
Privacy levels in Power BI Desktop and Power BI Service are set separately!

Row-Level-Security

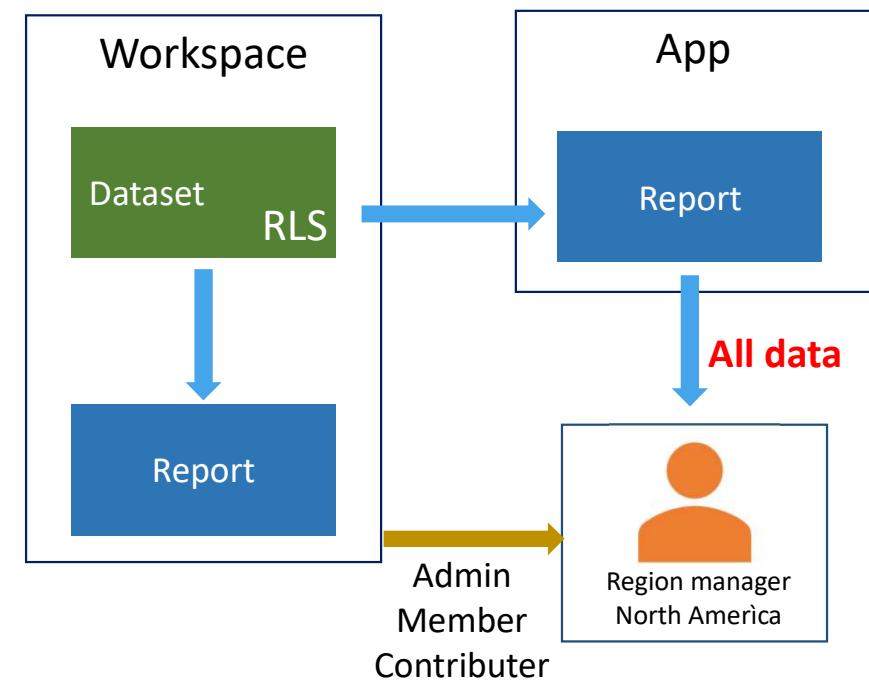
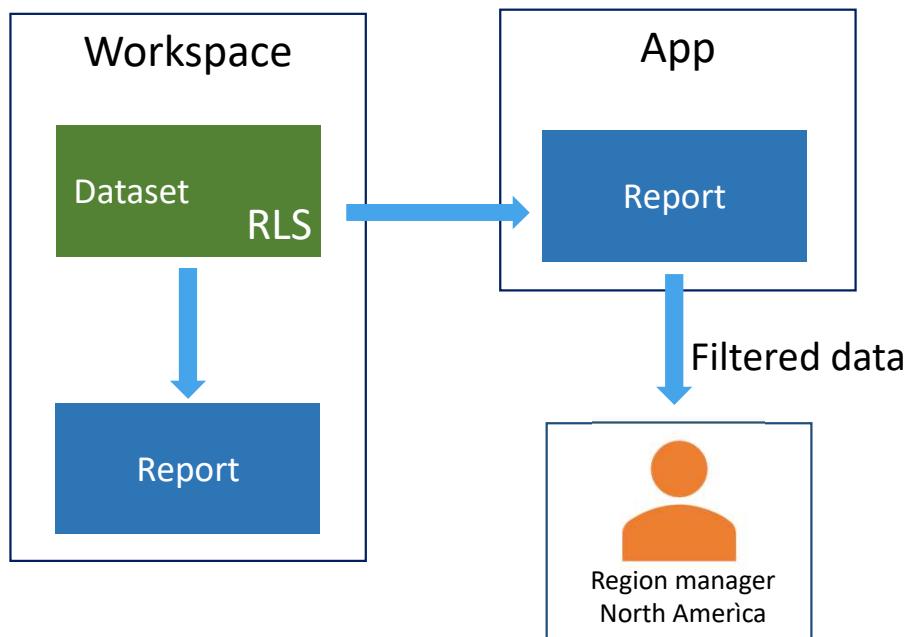
Restrict data access for given users.



Row-Level-Security



Workspace permissions ignores RLS



Object-Level-Security

Restrict tables and columns for given users.

File Edit View Model Role Tools

Perspective: (All objects) Translation: (No translation)

Model Data Sources Perspectives Relationships Roles > OLS role Shared Expressions Tables Customer Product Product Group Sales Order Details Sales Order Header KPI's Translations

Expression Editor Advanced Scripting

Property: 1

OLS - Table

Basic Description Name OLS role

Metadata Annotations 0 annotations

Extended Properties 0 extended properties

Object Type Role

Security Row Level Security RLS enabled on 0 out of 6 tables

Table Permissions OLS enabled on 6 out of 6 tables

Customer None

KPI's Read

Product Read

Product Group Read

Sales Order Details Read

Sales Order Header Read

Translations, Perspectives, Security

Table Permissions

Connected successfully. 0 BP issues

File Edit View Model Column Tools

Perspective: (All objects) Translation: (No translation)

Model Data Sources Perspectives Relationships Roles > OLS role Shared Expressions Tables Customer Product Product Group Sales Order Details Sales Order Header KPI's Translations

Expression Editor Advanced Scripting

Property: 1

OLS - Column

Encoding Hint Default

Group By Columns 0 columns

Keep Unique Rows False

Key False

Lineage Tag 4d209467-1818-4906-bda3-18832d9e

Nullable True

Source Lineage Tag

Source Provider Type

Table Detail Position -1

Unique False

Variations 0 variations

Translations, Perspectives, Security

Object Level Security Value assigned to 1 out of 1 Model R OLS role None

Synonyms 1 linguistic schema defined

Translated Descriptions 1 empty, 0 translated, 1 default

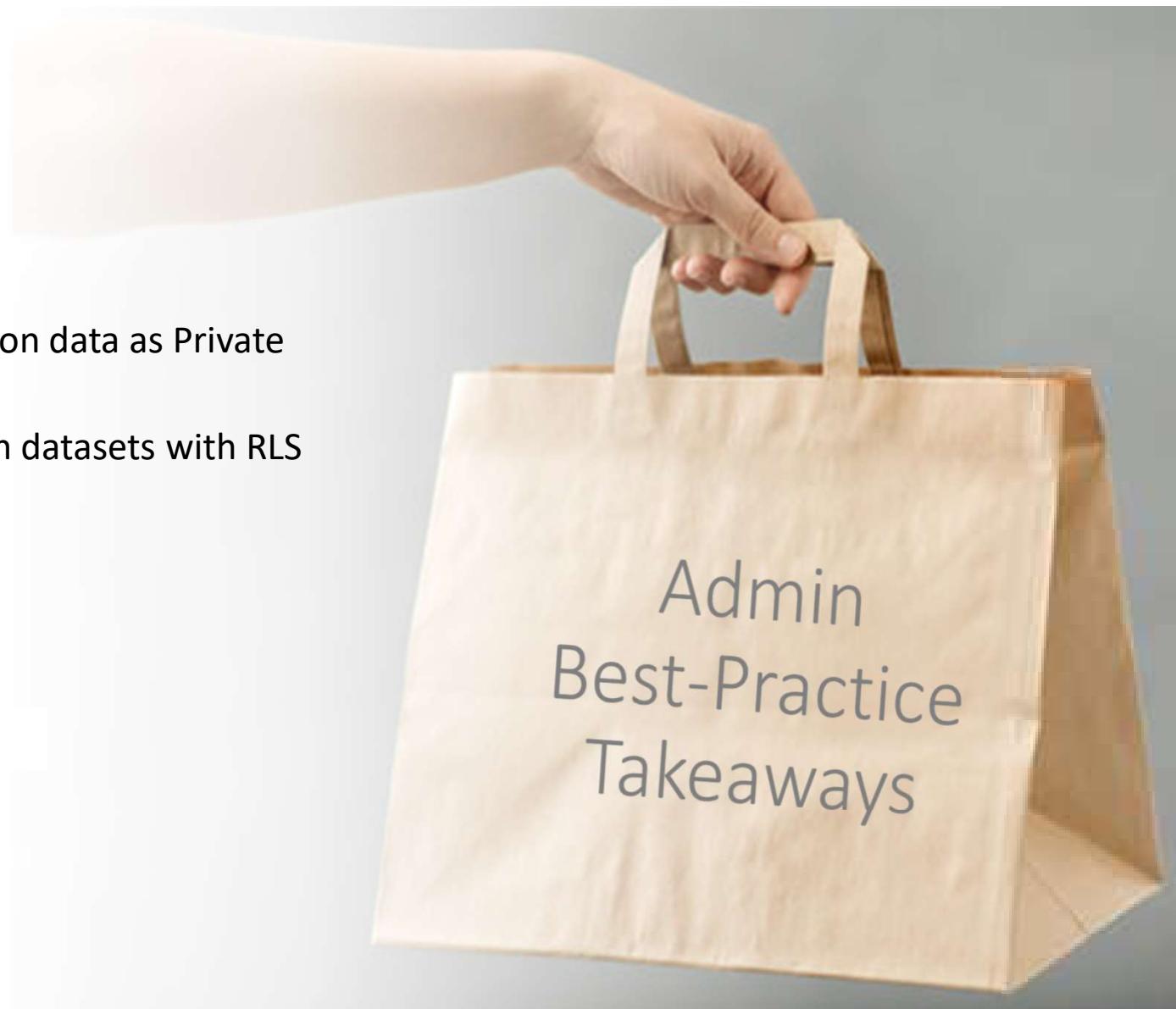
Translated Display Folders 1 empty, 0 translated, 1 default

Translated Names 1 empty, 0 translated, 0 default

Object Level Security

Connected successfully. 0 BP issues





- Assign Personally Identifiable Information data as Private
- Monitor performance more carefully on datasets with RLS

Endorsement

Settings for Reporting Sales

* Required

Report name

Reporting Sales

Description

Hylke Peek Enter email addresses

Snapshot

Endorsement

Help coworkers find your quality content by endorsing this report. [Learn more](#)

None

The report will appear in search results but isn't endorsed.

Promoted

When you're ready to distribute the report to your coworkers, promote it to let them know.

Certified

Certify your report to show coworkers that it's been reviewed and meets your org's certification criteria. [How do I get my report certified?](#)

Feature on Home

Display this report in the Featured section on Power BI Home for people with access to it.

The screenshot shows the Power BI interface with the title 'United FC [Development]'. On the left, there's a sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, and Knowledge center. The main area displays a table with columns: Name, Type, Owner, Refreshed, Next refresh, and Endorsement. There are five items listed:

Name	Type	Owner	Refreshed	Next refresh	Endorsement
Datamodel Sales	Report	United FC [Development]	11/19/22, 12:28:48 AM	—	—
Datamodel Sales	Dataset	United FC [Development]	11/19/22, 12:28:48 AM	N/A	—
Fanshop Sales Data	Dataflow	Hylke Peek	1/5/23, 10:31:31 PM	N/A	—
Reporting Sales	Report	United FC [Development]	11/19/22, 12:28:48 AM	—	<input checked="" type="radio"/> Promoted

Promotion

Certification

Featured content

Highlight content that might be valuable to others.
Can't be disabled.
Either be a contributor, member or admin.

Endorsement

Settings for Reporting Sales

* Required

Report name

Reporting Sales

Description

Hylke Peek Enter email addresses

Snapshot

Endorsement

Help coworkers find your quality content by endorsing this report. [Learn more](#)

None

The report will appear in search results but isn't endorsed.

Promoted

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Certified

Certify your report to show coworkers that it's been reviewed and meets your org's certification criteria. [How do I get my report certified?](#)

Feature on Home

Display this report in the Featured section on Power BI Home for people with access to it.

The screenshot shows the Power BI interface with the title 'United FC [Development]'. On the left, there's a sidebar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, and Knowledge center. The main area is titled 'Content' and shows a list of items:

Name	Type	Owner	Refreshed	Next refresh	Endorsement
Datamodel Sales	Report	United FC [Development]	11/19/22, 12:28:48 AM	—	
Datamodel Sales	Dataset	United FC [Development]	11/19/22, 12:28:48 AM	N/A	
Fanshop Sales Data	Dataflow	Hylke Peek	1/5/23, 10:31:31 PM	N/A	—
Reporting Sales	Report	United FC [Development]	11/19/22, 12:28:48 AM	—	

Promotion

Certification

Featured content

Content meets company standards.
Default disabled.
Enable this for a subset of users!

Endorsement

Settings for Reporting Sales

* Required

Report name

Reporting Sales

Description

Contact

 Hylke Peek X Enter email addresses

Snapshot

Upload Delete

Endorsement

Help coworkers find your quality content by endorsing this report. [Learn more](#)

None

The report will appear in search results but isn't endorsed.

Promoted

When you're ready to distribute the report to your coworkers, promote it to let them know.

Certified

Certify your report to show coworkers that it's been reviewed and meets your org's certification criteria. [How do I get my report certified?](#)

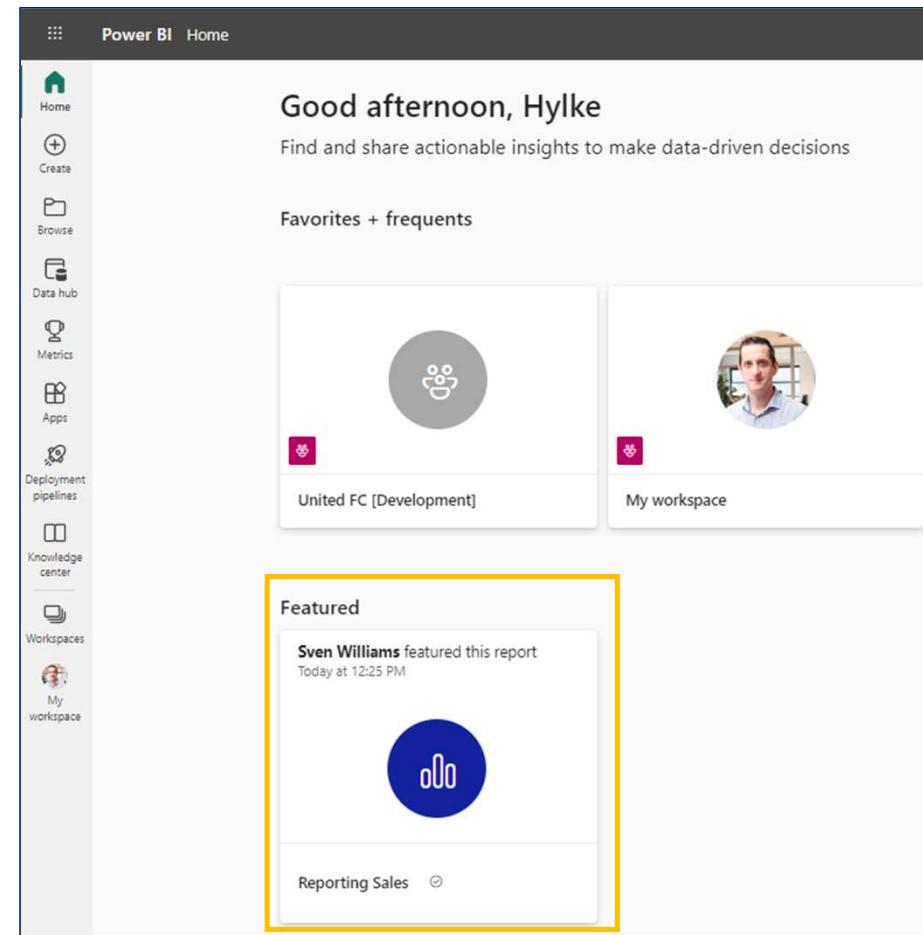
Feature on Home

Display this report in the Featured section on Power BI Home for people with access to it.

Promotion

Certification

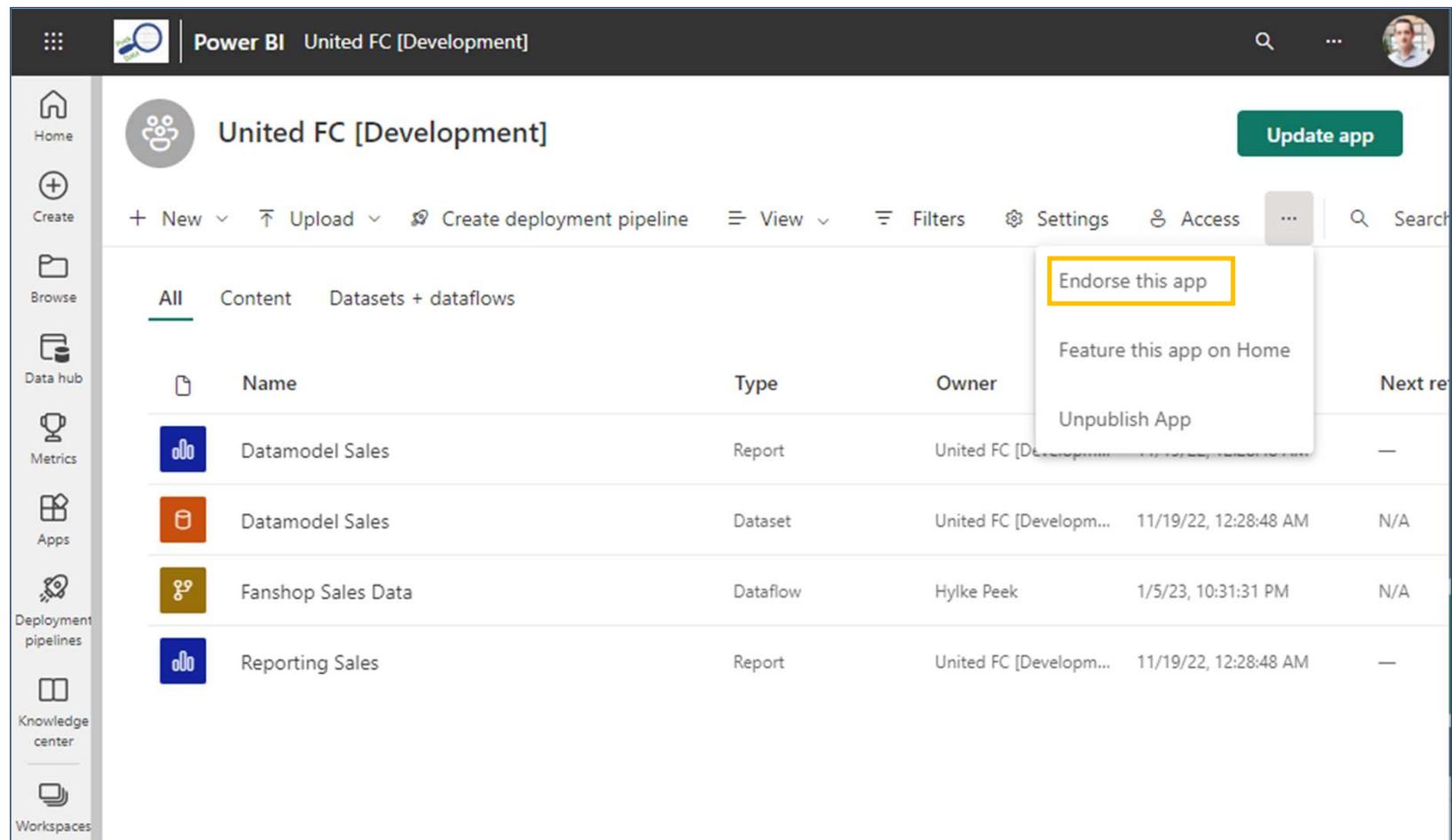
Featured content



The screenshot shows the Power BI Home page. On the left is a sidebar with navigation links: Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, Workspaces, and My workspace. The main area starts with a greeting: "Good afternoon, Hylke". Below it is a section titled "Favorites + frequents" with two items: "United FC [Development]" and "My workspace". The "Featured" section is highlighted with an orange border. It contains a message from "Sven Williams": "Sven Williams featured this report Today at 12:25 PM". Below the message is a blue circular icon with a white "000" and the text "Reporting Sales".

Show on home page for people with access to it.
Independent of other settings.
Default enabled.

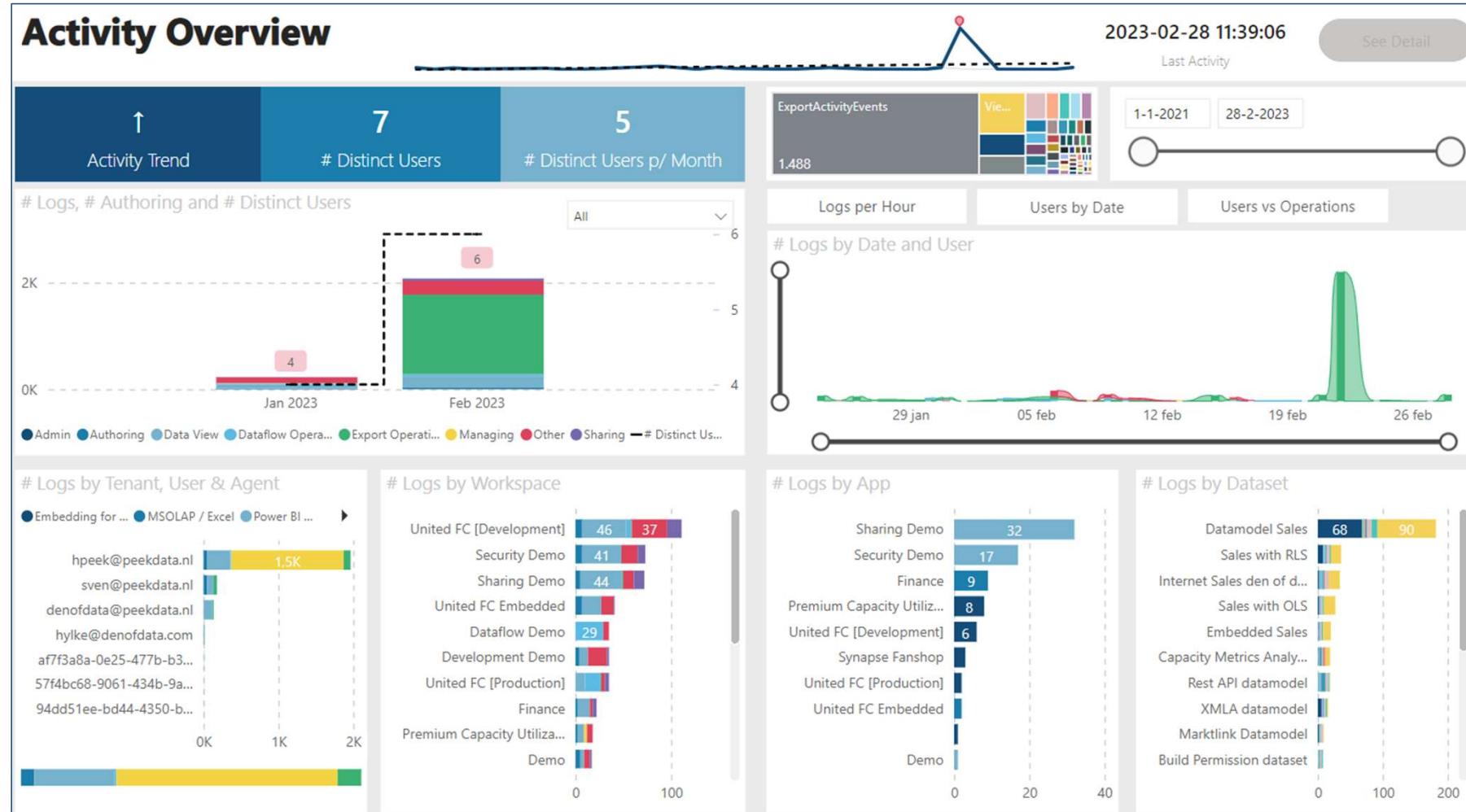
Endorsement - App



The screenshot shows the Power BI application management interface for the "United FC [Development]" app. On the left is a vertical navigation bar with icons for Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The main area displays the app's name, a "Update app" button, and a search bar. Below these are buttons for "New", "Upload", "Create deployment pipeline", "View", "Filters", "Settings", "Access", and a three-dot menu. The "Content" tab is selected, showing a list of items: "Datamodel Sales" (Report, Owner: United FC [Development]), "Datamodel Sales" (Dataset, Owner: United FC [Development], Last modified: 11/19/22, 12:28:48 AM), "Fanshop Sales Data" (Dataflow, Owner: Hylke Peek, Last modified: 1/5/23, 10:31:31 PM), and "Reporting Sales" (Report, Owner: United FC [Development], Last modified: 11/19/22, 12:28:48 AM). A context menu is open over the first "Datamodel Sales" item, with the "Endorse this app" option highlighted by a yellow box.

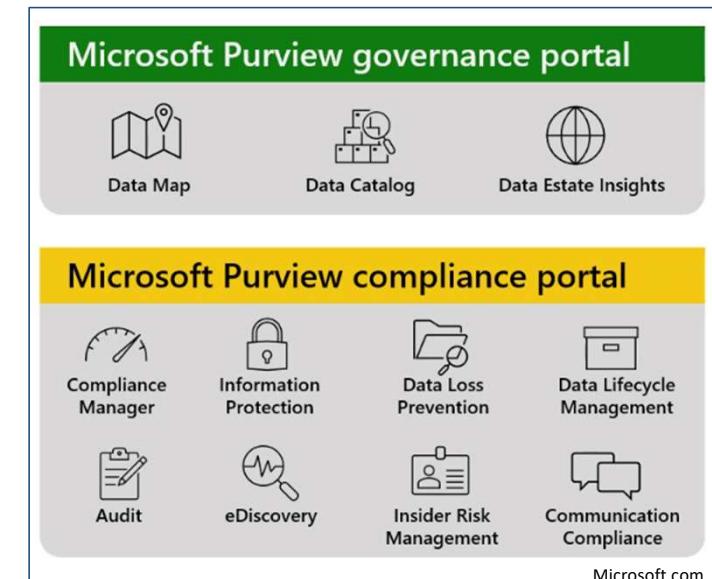
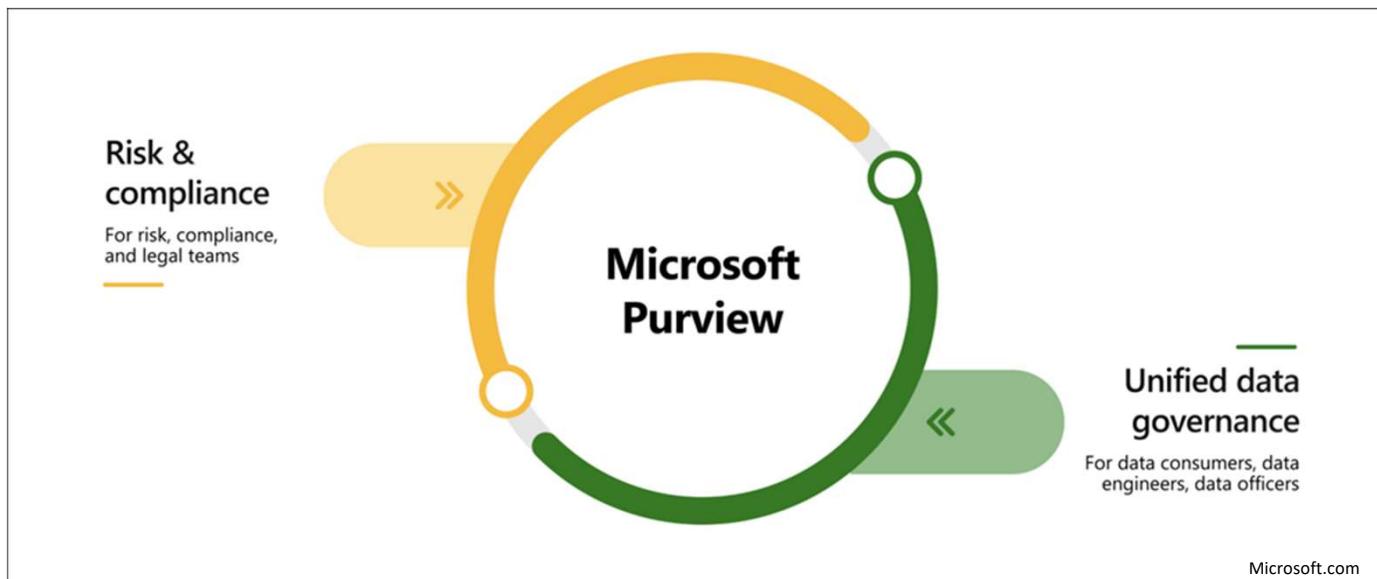
Name	Type	Owner	Last modified	Actions
Datamodel Sales	Report	United FC [Development]		—
Datamodel Sales	Dataset	United FC [Development]	11/19/22, 12:28:48 AM	N/A
Fanshop Sales Data	Dataflow	Hylke Peek	1/5/23, 10:31:31 PM	N/A
Reporting Sales	Report	United FC [Development]	11/19/22, 12:28:48 AM	—

Monitor and auditing Power BI Environment





Microsoft Purview (high level)



Data Catalog and Discovery

Gain visibility into data assets across the entire organization ('data estate')

Data Labeling and Classification

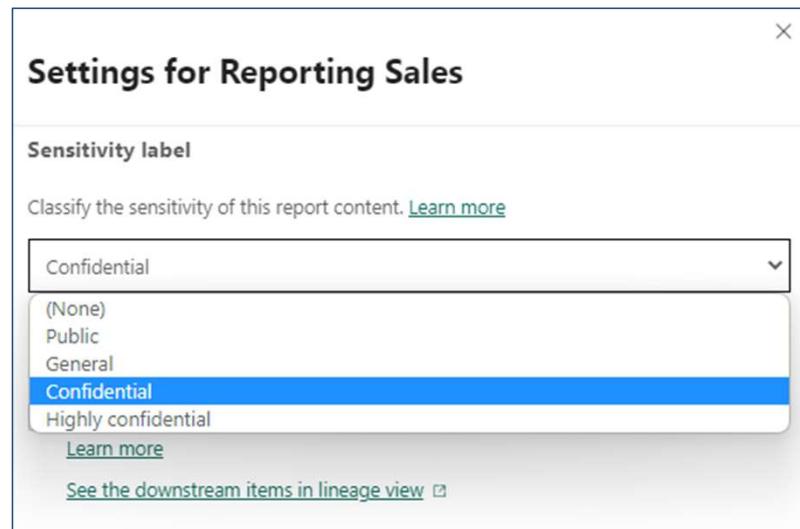
Protect sensitive data across different data sources like ALDS, SQL, Power BI etc.

Data Lineage

Understand the relation between different types of data assets

Sensitivity labels

Classify critical data, not restrict data.



The screenshot shows a dark header bar with the text "Reporting Sales | Confidential" followed by a dropdown arrow. Below the header is a dashboard with three metrics: "AVG Sales Value", "# Product/Order", and "# Orders".

Tag an object to a label

Dashboard, Report, Dataset, and Dataflow

Downstream inheritance

Data protection metrics report



Always start with

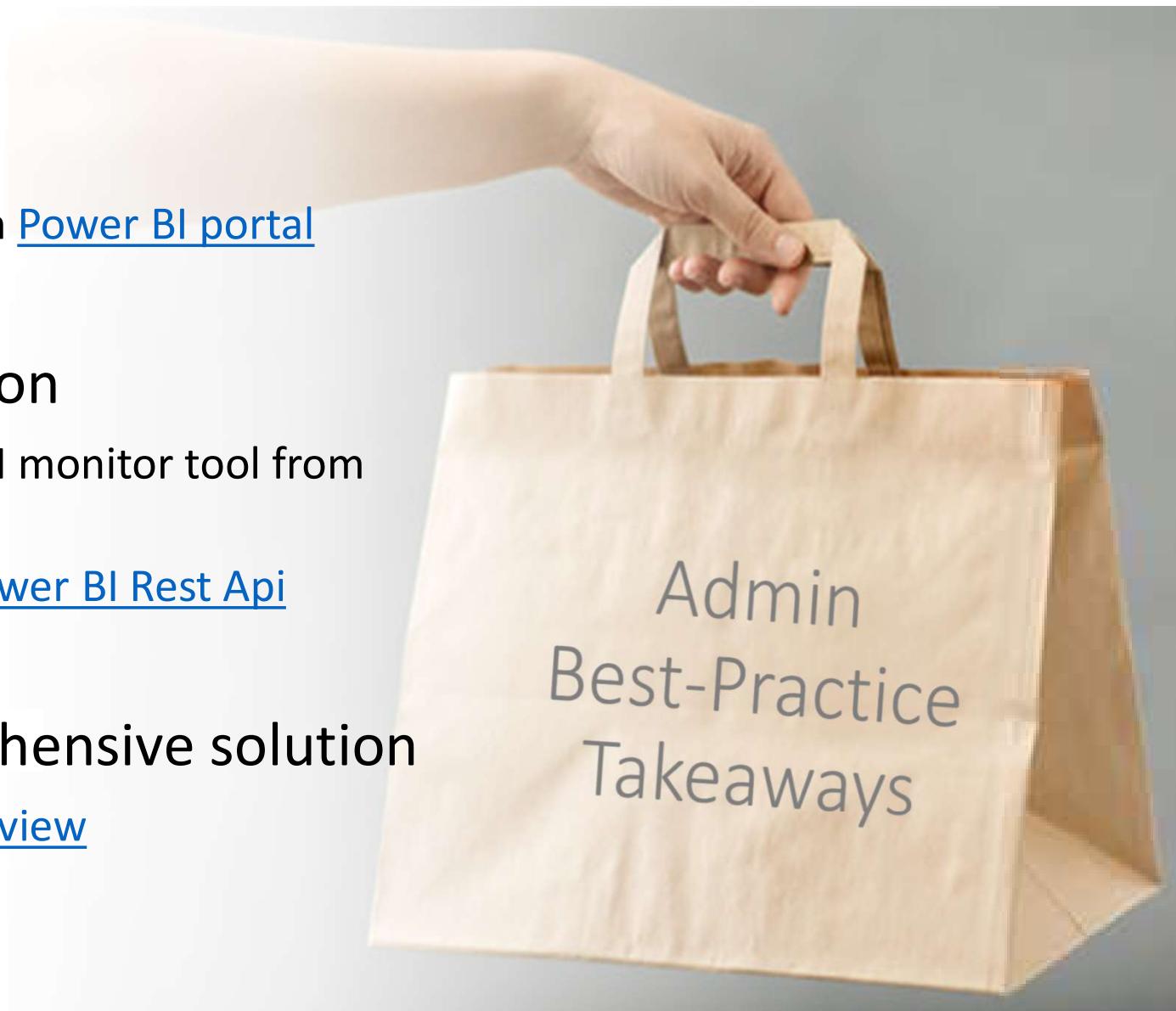
- Reports for usage and lineage in [Power BI portal](#)

You need more information

- Start with open source Power BI monitor tool from [Rui Romano](#) or other tools
- Write your own scripts using [Power BI Rest Api](#)

You need a more comprehensive solution

- Keep your eye on [Microsoft Purview](#)
- Dive into [Azure Log Analytics](#)
- Check out [Power BI Sentinel](#)





What are you going to change about Power BI governance from tomorrow and who are you going to talk to about this?



Govern your
Power BI environment

Thank you!

Hylke Peek