

# Designing and Deploying Dashboards



# Agenda

- Designing Dashboards for Power BI
- Executing Queries with Natural Language Q&A
- Sharing Dashboards with Other Office 365 Users
- Staging & Deployment using App Workspaces



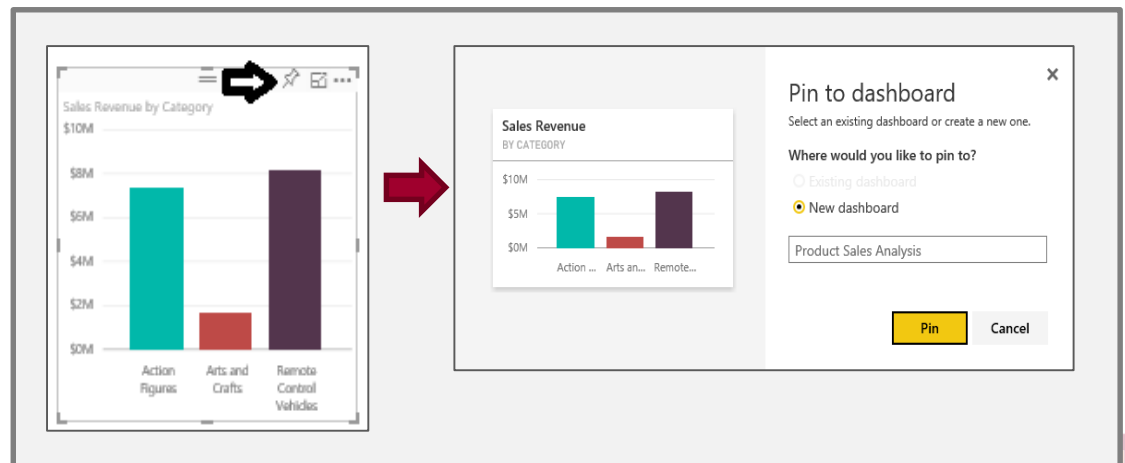
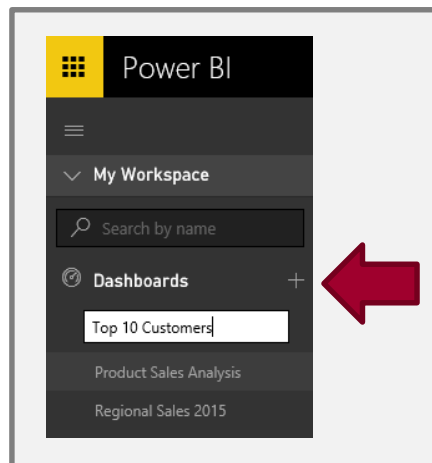
# Dashboards in Power BI

- Dashboard is consolidated view of reports & datasets
  - Provides simpler, more intuitive entry point to reports and datasets
  - Simplicity and intuition key for users with mobile devices & tablets
- Dashboard represents unit of deployment and reuse
  - Dashboards can be deployed via dashboard sharing
  - Dashboards can be deployed using organizational content packs



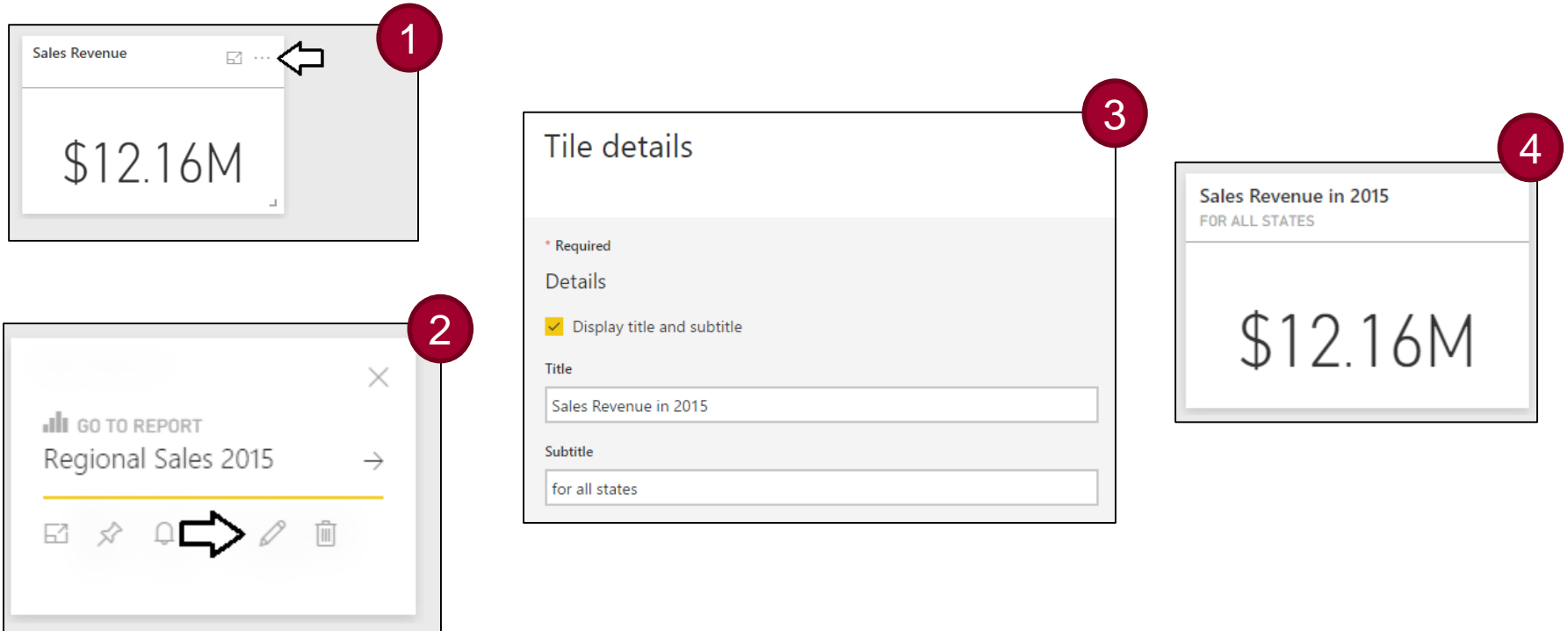
# Creating Dashboards

- Dashboard is a collection of tiles
  - Dashboard tiles can be created by pinning a visual from a report
  - Dashboard tiles can be created from Q&A search result
  - Each tile is snapshot of information from an underlying dataset
- Dashboard can be created two different ways
  - Click on (+) button in Dashboards section of navigation pane
  - Create new dashboard when pinning visual from report



# Modifying Tile Details

- You can customize a tile's title and subtitle
  - Default title and subtitle doesn't always provide enough clarity
  - Title and subtitle edited using **Tile details** dialog







**DEMO**

## Creating a Dashboard

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# The Q&A Search Box

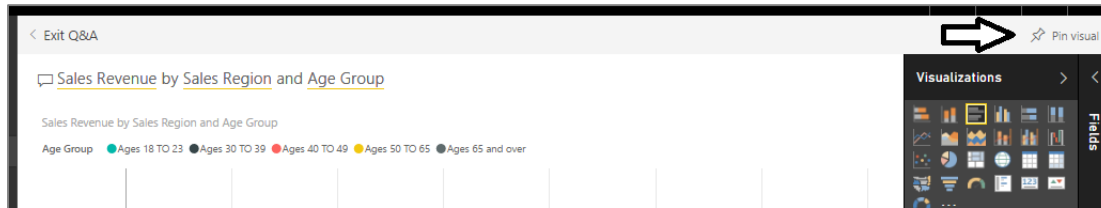
- Used to execute natural language queries
  - Queries are executed against underlying dataset(s) in workspace
  - Query results display using some type of Power BI visual
  - Power BI service selects Visualization type based on result type





# Pinning Search Result to Dashboard

- Q&A search results can be pinned to dashboard
- Allows users to easily save visuals from query results



This tile was created from a visual on a report

This tile was created from a Q&A query result



**DEMO**

## **Working with the Q&A Search Box**

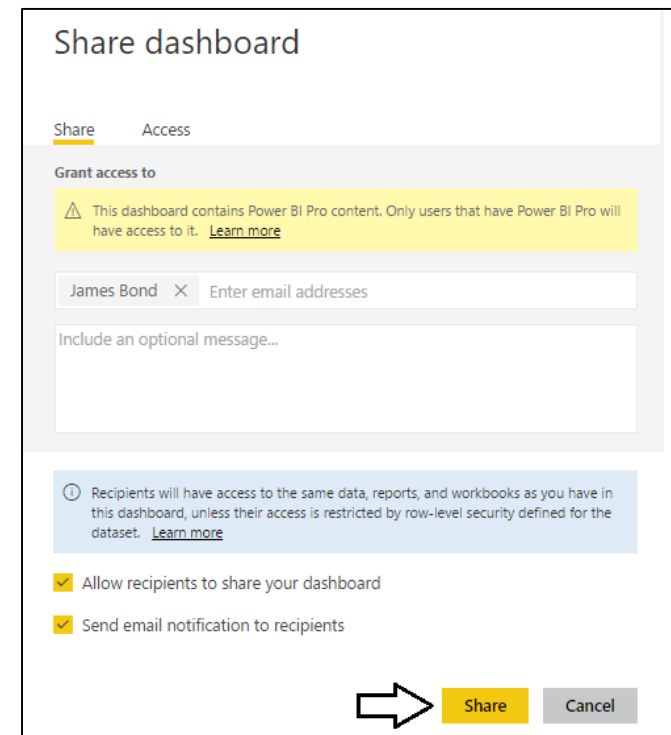
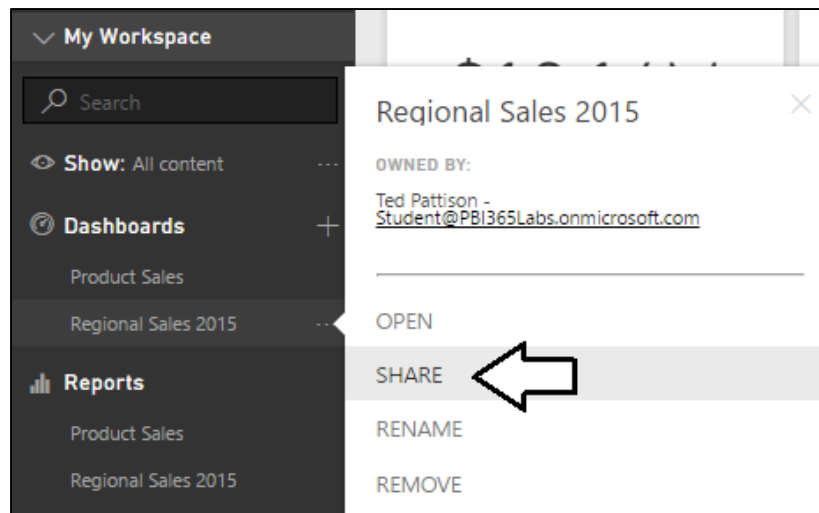
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# Sharing Dashboards

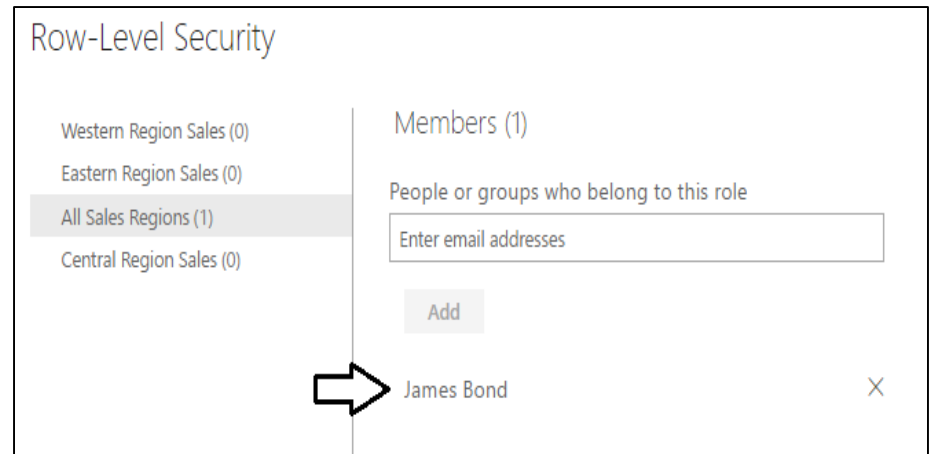
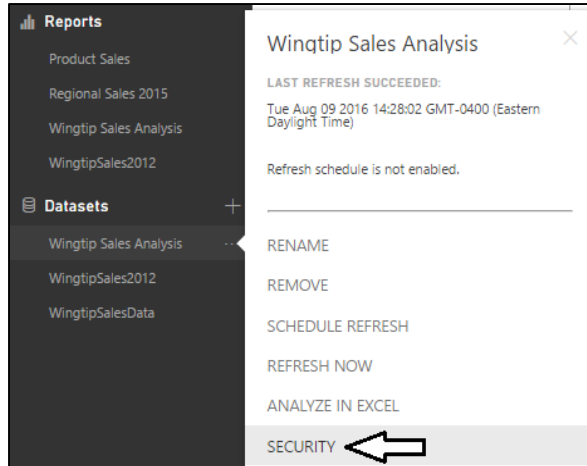
- Used to make dashboard accessible to other users
  - Other users must be within same Office 365 organization
  - Sharing dashboard provides indirect access to reports and datasets
  - Does not require Power BI Pro license





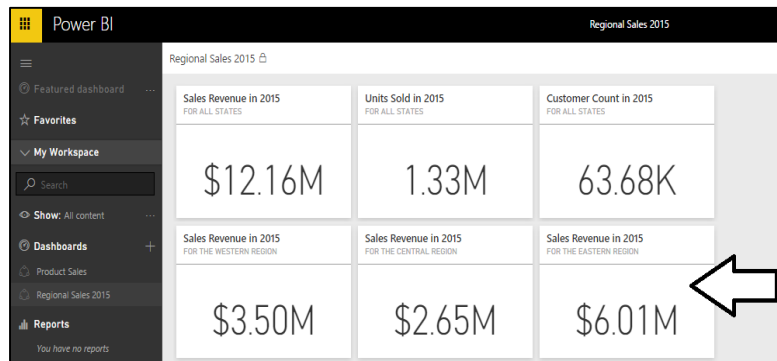
# Configuring Row-level Security

- If required, configure RLS on dataset behind dashboard
  - If RLS is configured incorrectly, users may not see any data

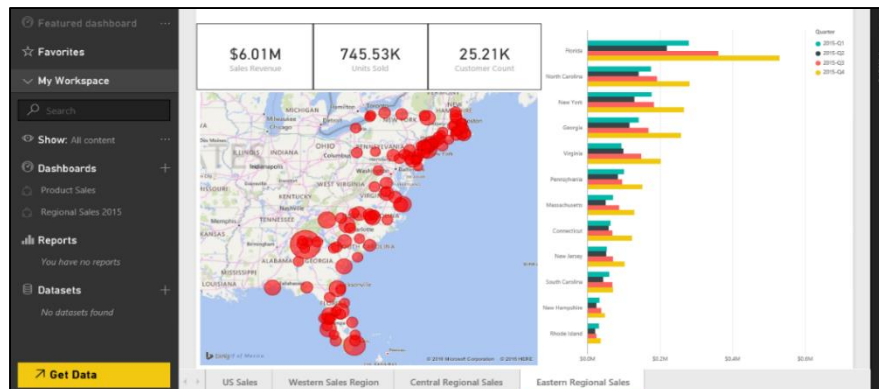


# Testing Dashboard Sharing

- Login as secondary user
  - Make sure you can access the dashboard
  - Observe there is a link to dashboard but not to report or dataset



- Clicking on dashboard tile navigates user to report





**DEMO**

## Sharing a Dashboard

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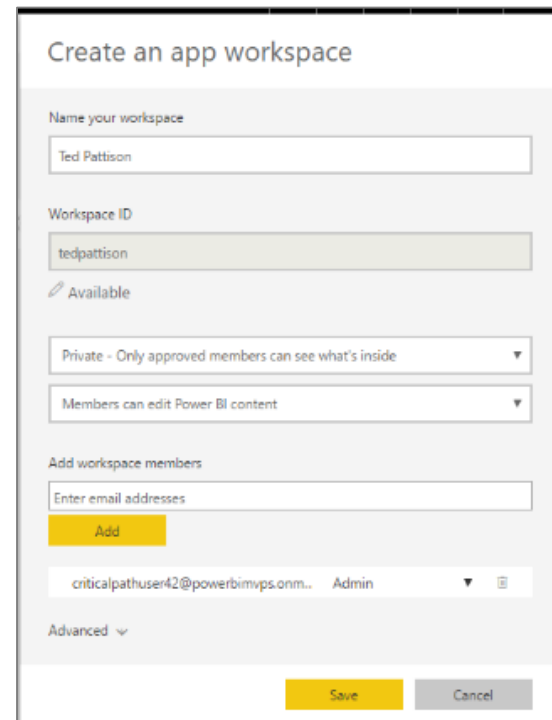
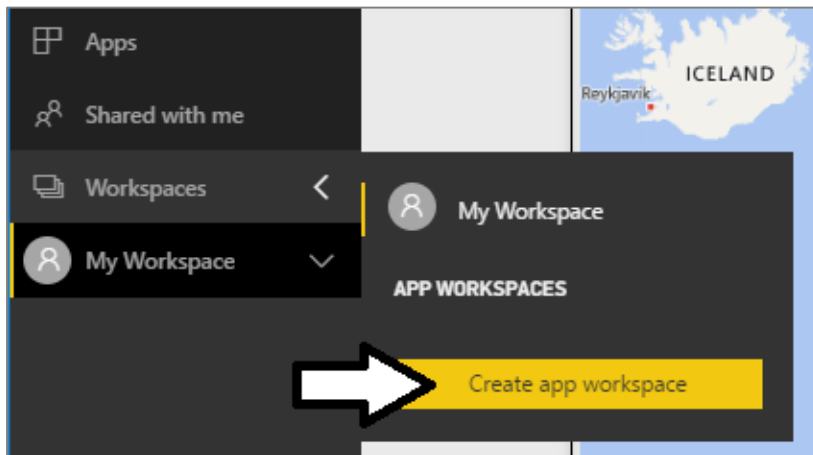
# Distributing a Custom Solution

- Strategies for sharing reports and dashboards
  - Dashboard sharing
  - Read-only App Workspaces
  - Organization Content Packs (supports staged updates)
  - Power BI Apps (supports staged updates)



# Solution Deployment using App Workspaces

- App workspaces used to deploy custom solutions
  - App workspaces required for team-based development
  - App workspace can be secured using private membership
  - App workspace used to publish apps for licensed users

A screenshot of the 'Create an app workspace' dialog box. It contains the following fields and options:

- Name your workspace:** A text input field with 'Ted Pattison' entered.
- Workspace ID:** A text input field with 'tedpattison' entered.
- Available:** A checkbox that is checked.
- Privacy:** A dropdown menu set to 'Private - Only approved members can see what's inside'.
- Members can edit Power BI content:** A dropdown menu set to 'Members can edit Power BI content'.
- Add workspace members:** A section with a text input field for 'Enter email addresses', an 'Add' button, and a list of members. One member is listed: 'criticalpathuser42@powerbimvps.onm...' with the role 'Admin'.
- Advanced:** A dropdown arrow.
- Buttons:** 'Save' and 'Cancel' buttons at the bottom right.




# Creating an App Workspace

## Create an app workspace

Name your workspace

Workspace ID



 Available

☐ Public - Anyone can see what's inside

☒ Private - Only approved members can see what's inside

☐ Members can only view Power BI content

Add workspace members

maxwells@cpt0926.onmicrosoft.com	Admin	▼	
austinp@cpt0926.onmicrosoft.com	Member	▼	

Public - Anyone can see what's inside

Private - Only approved members can see what's inside

Members can edit Power BI content

Members can only view Power BI content



# Premium Capacities





- Power BI workspaces run in two possible environments
  - Shared Capacities
  - Premium Capacities (*formerly known as dedicated capacities*)
- Premium capacity acts as dedicated resource
  - Premium capacity only used by single organization
  - PBIX file uploads not limited to 1GB
  - Data refresh frequency can exceed 8 times per day
  - Each premium capacity defines its own set of admins
  - *Premium capacity required to share with users without pro license*









# Power BI Licensing

- User-based licensing

<p>Power BI (free)</p> <p>\$0.00 user/month</p> <p>A cloud-based business analytics service that enables anyone to visualize and analyze data with greater speed, efficiency, and understanding. It ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>	<p>Power BI Pro</p> <p>\$9.99 user/month</p> <p>A cloud-based business analytics service that enables anyone to visualize and analyze data with greater speed, efficiency, and understanding. Power ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>	<p>Office 365 Enterprise E5</p> <p>\$35.00 user/month</p> <p>The Office suite, plus email, instant messaging, HD video conferencing, 1 TB personal file storage and sharing, and advanced security, analytics and PSTN ...</p> <p>Office 2016 desktop &amp; mobile apps </p> <p>Office 365 services </p> <p>...</p>
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- Capacity-based Licensing

<p>Power BI Premium P1</p> <p>\$4,995.00 instance/month</p> <p>Power BI capacity dedicated to your organization, unlocking unlimited content distribution and dependable performance. P1 offers 8 virtual cores ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>	<p>Power BI Premium P2</p> <p>\$9,995.00 instance/month</p> <p>Power BI capacity dedicated to your organization, unlocking unlimited content distribution and dependable performance. P1 offers 16 virtual cores ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>	<p>Power BI Premium P3</p> <p>\$19,995.00 instance/month</p> <p>Power BI capacity dedicated to your organization, unlocking unlimited content distribution and dependable performance. P1 offers 32 virtual cores ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>	<p>Power BI Premium EM3 (Month to Month)</p> <p>\$2,495.00 instance/month</p> <p>Embed Power BI content in your custom application, powered by 4 virtual cores of dedicated capacity. Some Premium features are disabled ...</p> <p>Office 2016 desktop &amp; mobile apps Not included</p> <p>Office 365 services </p> <p>...</p>
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# Premium Capacity Nodes

- Power BI Premium Purchased using Nodes
  - Node type defines v-core and RAM capabilities
  - P nodes used for embedded or service deployments
  - EM nodes used only for embedded deployments

Capacity Node	Total cores	Backend Cores	Frontend Cores	Direct Query Limits	Page renders/hour
EM1	1 v-cores	.5 cores, 3GB RAM	.5 cores		1-300
EM2	2 v-cores	1 core, 5GB RAM	1 core		301-600
EM3	4 v-cores	2 cores, 10GB RAM	2 cores		601-1,200
P1	8 v-cores	4 cores, 25GB RAM	4 cores	30 per second	1,201-2,400
P2	16 v-cores	8 cores, 50GB RAM	8 cores	60 per second	2,401-4,800
P3	32 v-cores	16 cores, 100GB RAM	16 cores	120 per second	4,801-9600



# Managing Premium Capacities

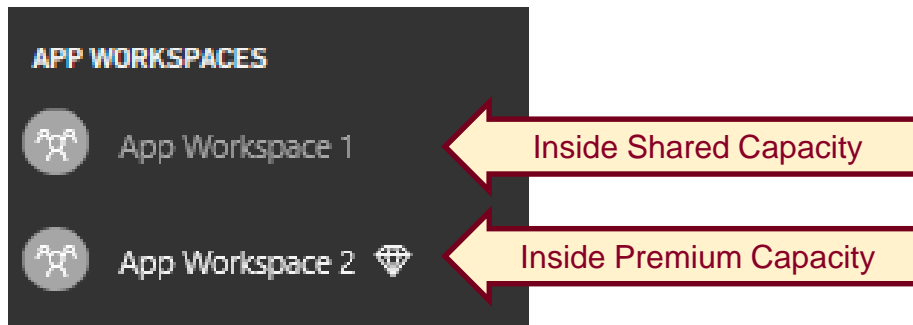
The screenshot displays the Power BI Admin portal interface. On the left is a dark sidebar with navigation options: Favorites, Recent, Apps, Shared with me, Workspaces, and My Workspace (selected). The main content area is titled 'Admin portal' and contains a sub-menu with 'Usage Metrics', 'Users', 'Audit logs', 'Tenant settings', and 'Capacity settings' (highlighted). The 'Capacity settings' section shows tabs for 'Power BI Premium' (selected) and 'Power BI Embedded'. Under 'Power BI Premium', a 'V-CORES' section shows a progress bar for '8 of 8 used' out of '8 v-cores' available, with '0 available' remaining. A link 'Learn more about capacity sizes' and a button 'Set up new capacity' are present. Below this is a table titled 'PREMIUM CAPACITIES'.

CAPACITY NAME	CAPACITY ADMINS	ACTIONS	SKU	V-CORES	STATUS
Capacity P1 #1 8GB model	datachant, djeepy1, gastoncruz, h... + 1 more		P1	8	Active

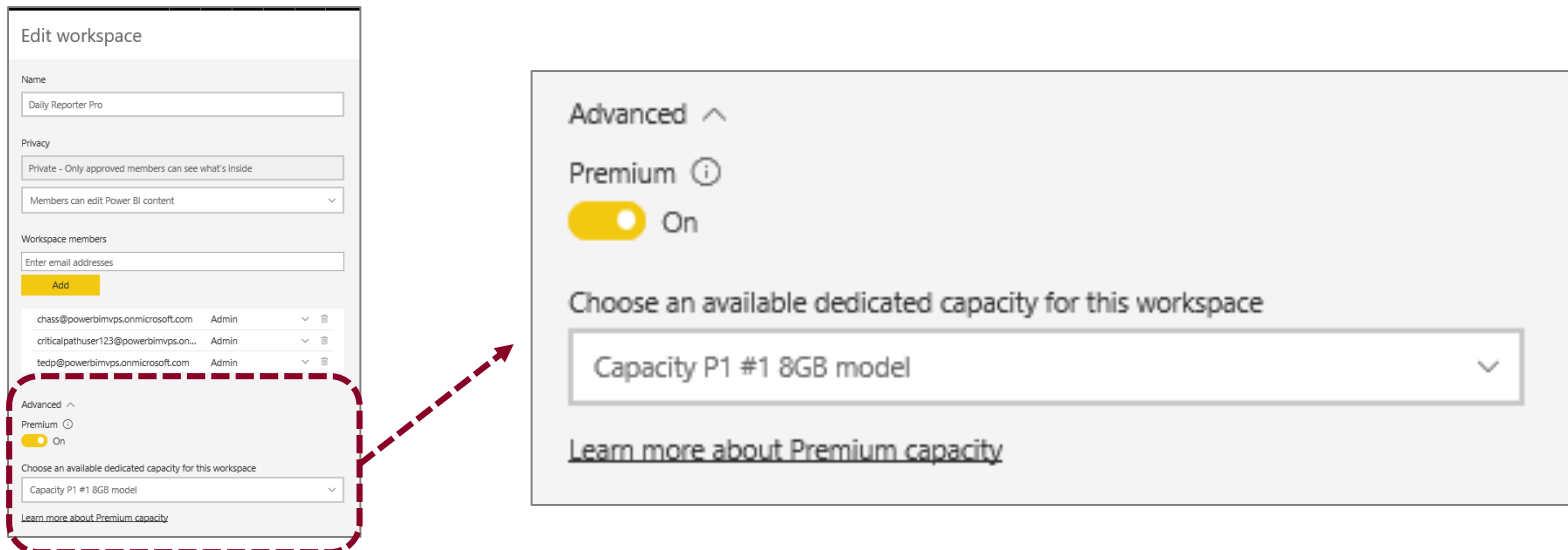


# Managing Capacities and App Workspaces

- App Workspace in Premium Capacity has diamond icon



- App workspace moved into Premium capacity in Advanced settings







**DEMO**

## **Deploying a Dashboard using an Organizational Content Pack**

# Summary

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