

# Publishing Content using App Workspaces



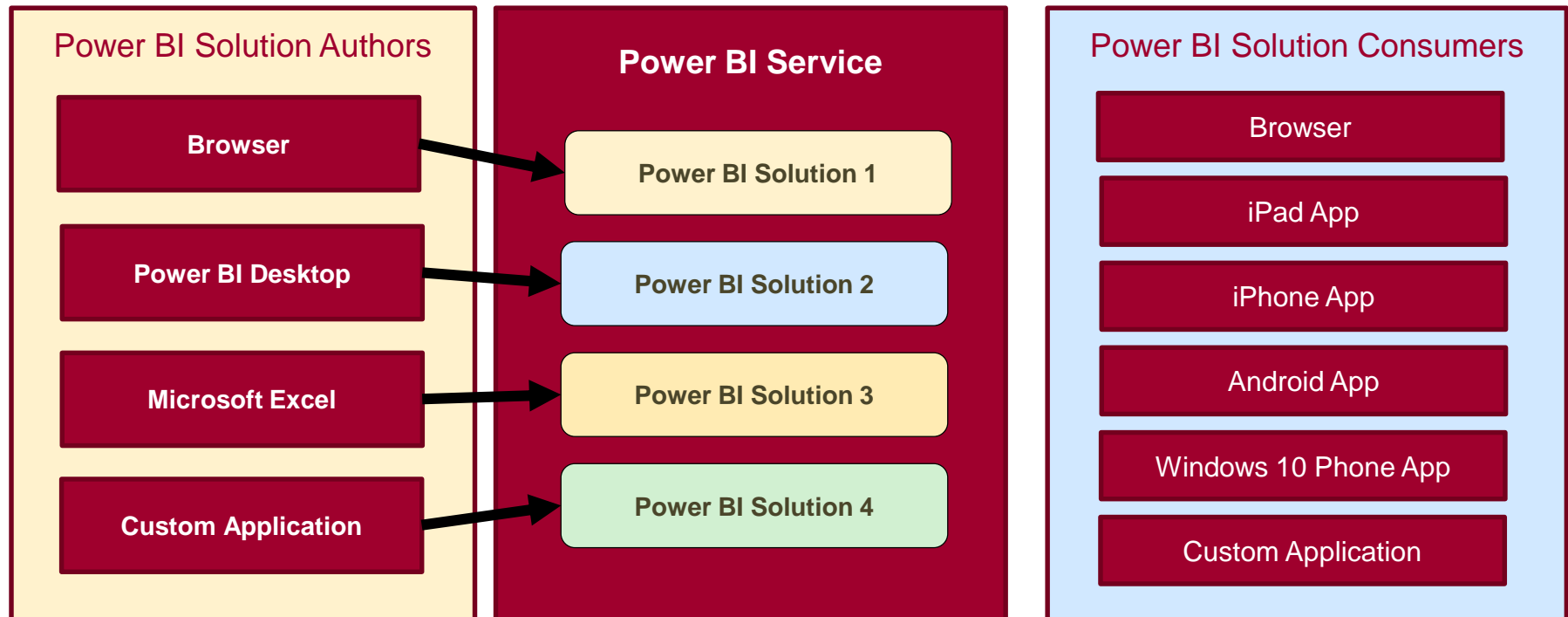
# Agenda

- Content Distribution in Power BI
  - App Workspaces
  - Publishing Apps
  - Power BI Premium



# Power BI Authors and Consumers

- Power BI support for authors and consumers
  - BI solution authors have a choice in authoring tools
  - BI solutions consumers can use wide range of devices

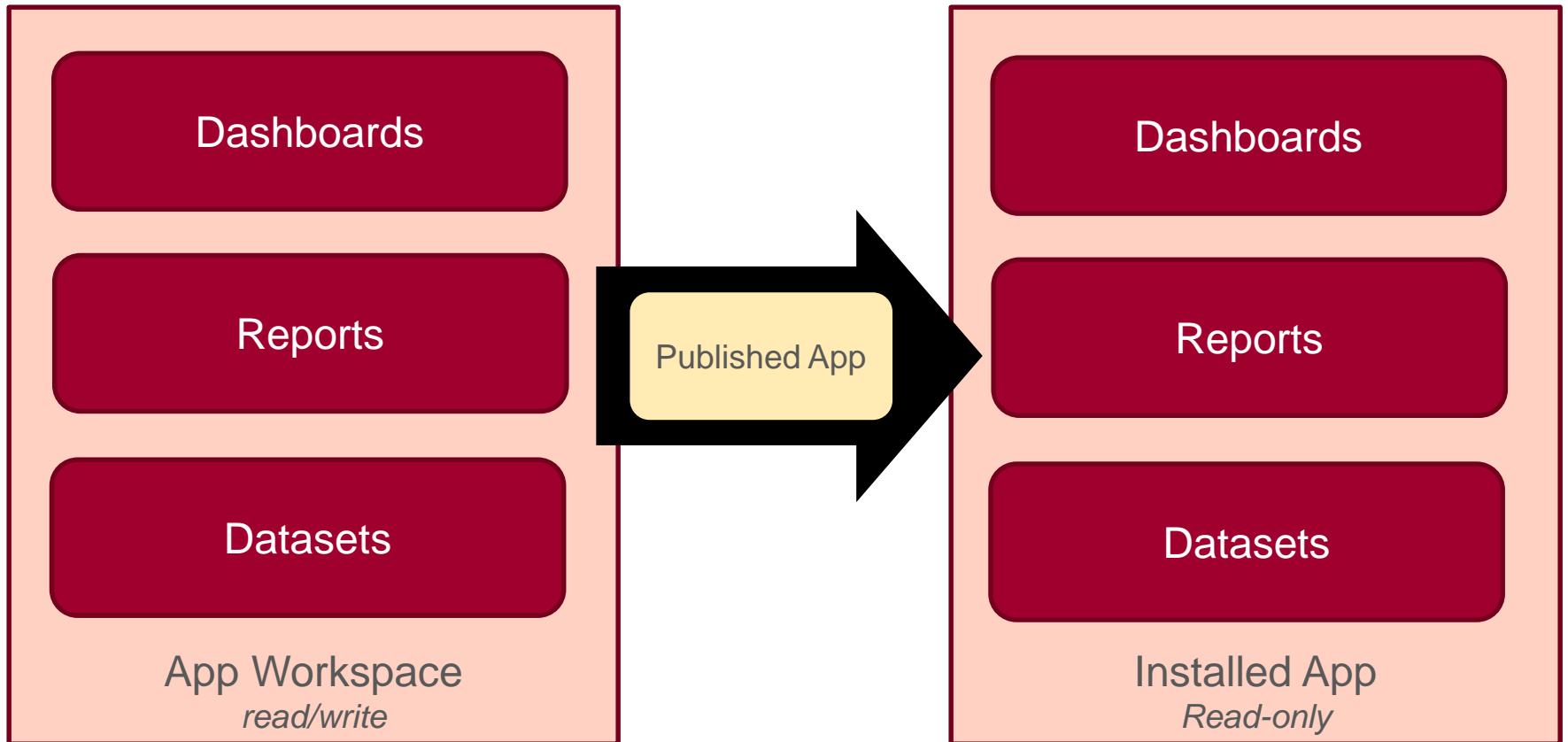


# Distributing a Custom Solution

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



# New Distribution Model



# Agenda

- ✓ Content Distribution in Power BI
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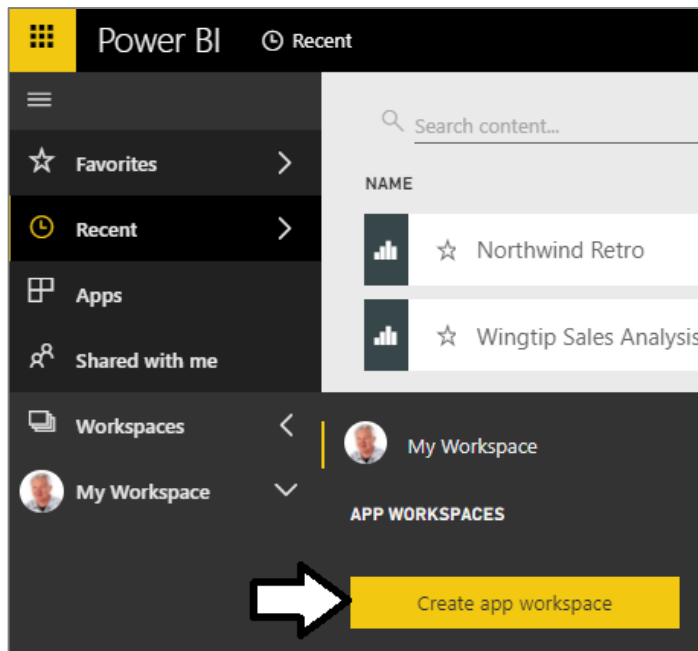
# Understanding App Workspaces

- App workspaces required for team-based development
  - Assets in personal workspaces can only be edited by one person
  - Assets in app workspace can be edited by multiple team members
- App workspaces provide secure, updatable deployment
  - App workspace can be secured using private membership
- App workspaces central to mainstream distribution model
  - App workspace and its content is published as a Power BI app
  - Power BI app can be installed by content consumers
  - Power BI app content consumable via browser and mobile apps



# Creating an App Workspace

- You create app workspace using browser






# App Workspace Settings

- Name
- Private or Public
  - Private is the norm
- Editable or Read-only
  - Setting only applies to members
  - Admins can always edit content
- Membership
  - Admins can edit membership
  - Members can edit content

### Create an app workspace

Name your workspace

Workspace ID




 Available

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

Members can edit Power BI content ▼

Add workspace members

Add

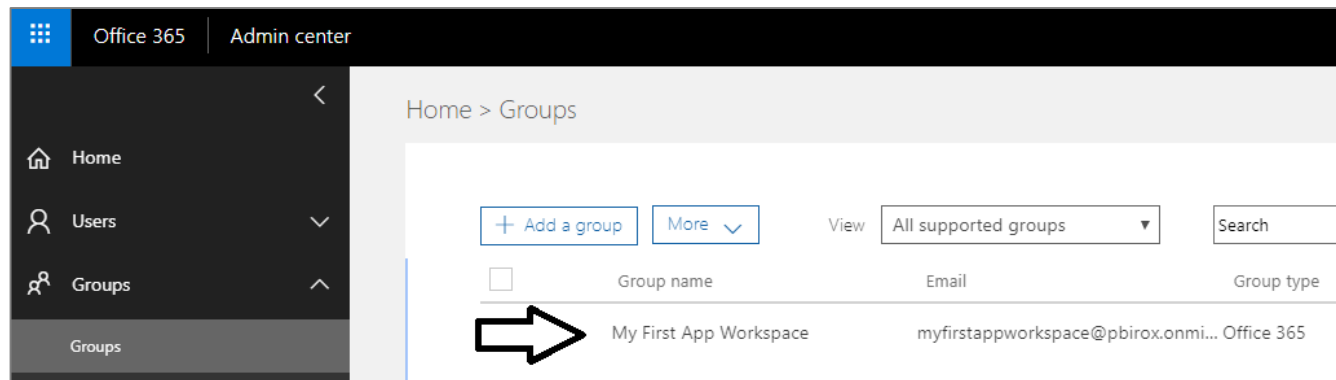
tedp@pbiox.onmicrosoft.com	Admin	▼	
austinp@pbiox.onmicrosoft.com	Member	▼	
maxwells@pbiox.onmicrosoft.com	Member	▼	

Save

Cancel

# App Workspace - Behind the Scenes

- App Workspace created as Office 365 Group
  - Acts as both a security group and distribution list
  - Requires provisioning SharePoint team site



# App Workspace – The Office 365 Group

- Office 365 group provisions SharePoint team site
  - Accessible to workspace members users through Outlook Online
    - Provides conversations, files, calendar, OneNote Notebook, etc.

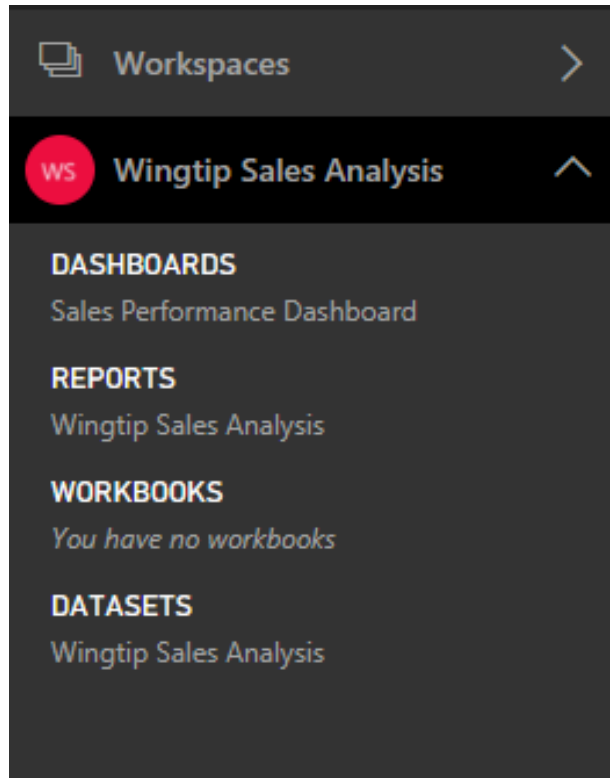
The screenshot displays the Outlook Online interface for a group named 'My First App Workspace'. The browser address bar shows the URL: <https://outlook.office.com/owa/?realm=pbiox.onmicrosoft.com&exsvurl=1&ll-cc=1033&modurl=0&path=/group/myfirstappworkspace@pbiox.onmicrosoft.com/...>. The top navigation bar includes 'Office 365' and 'Outlook'. The left sidebar shows a search bar for 'My First App Workspace' and a list of folders (Inbox, Sent Items, Drafts) and groups. The 'My First App Workspace' group is selected, showing a green profile picture with 'MF'. The main content area displays a welcome message: 'The new My First App Workspace group is ready'. Below this, there are two buttons: 'Start a conversation' and 'Add to the team site'. The bottom of the page shows the user's name 'Ted Pattison' and a profile picture.

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# Central Power BI Concepts

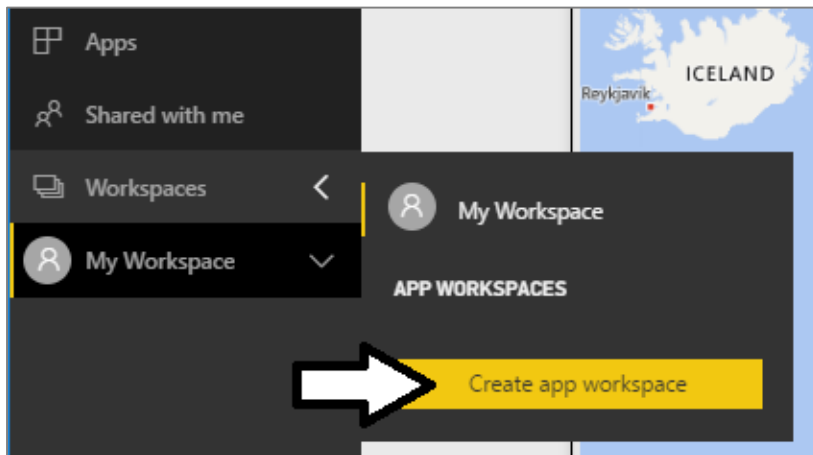


- **Workspace**
  - Provides user context and asset container
  - Every user has personal workspace
  - Team development requires app workspaces
- **Dashboard**
  - Consolidated view into reports and datasets
  - Custom solution entry point for mobile users
- **Report**
  - Collection of pages with tables & visualizations
  - Provides interactive control of filtering
- **Dataset**
  - Data model containing one or more tables
  - Can be very simple or very complex



# 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. The title is 'Create an app workspace'. It contains several fields and options: 'Name your workspace' with a text input field containing 'Ted Pattison'; 'Workspace ID' with a text input field containing 'tedpattison'; a toggle switch for 'Available' which is currently turned off; a dropdown menu for 'Private - Only approved members can see what's inside'; another dropdown menu for 'Members can edit Power BI content'; a section 'Add workspace members' with a text input field 'Enter email addresses', an 'Add' button, and a list of members showing 'criticalpathuser42@powerbimvps.onm...' with the role 'Admin'; an 'Advanced' section with a dropdown arrow; and at the bottom, 'Save' and 'Cancel' buttons.

# 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

Add

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







**DEMO**

# **Publishing an App Workspace and Installing a Power BI App**



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# 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

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

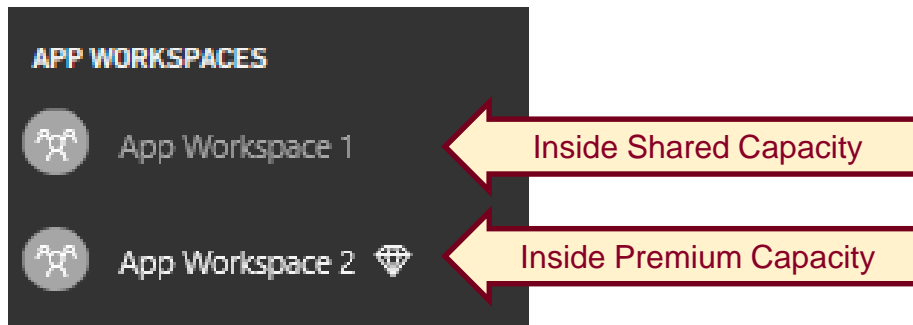
- Capacity-based Licensing

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

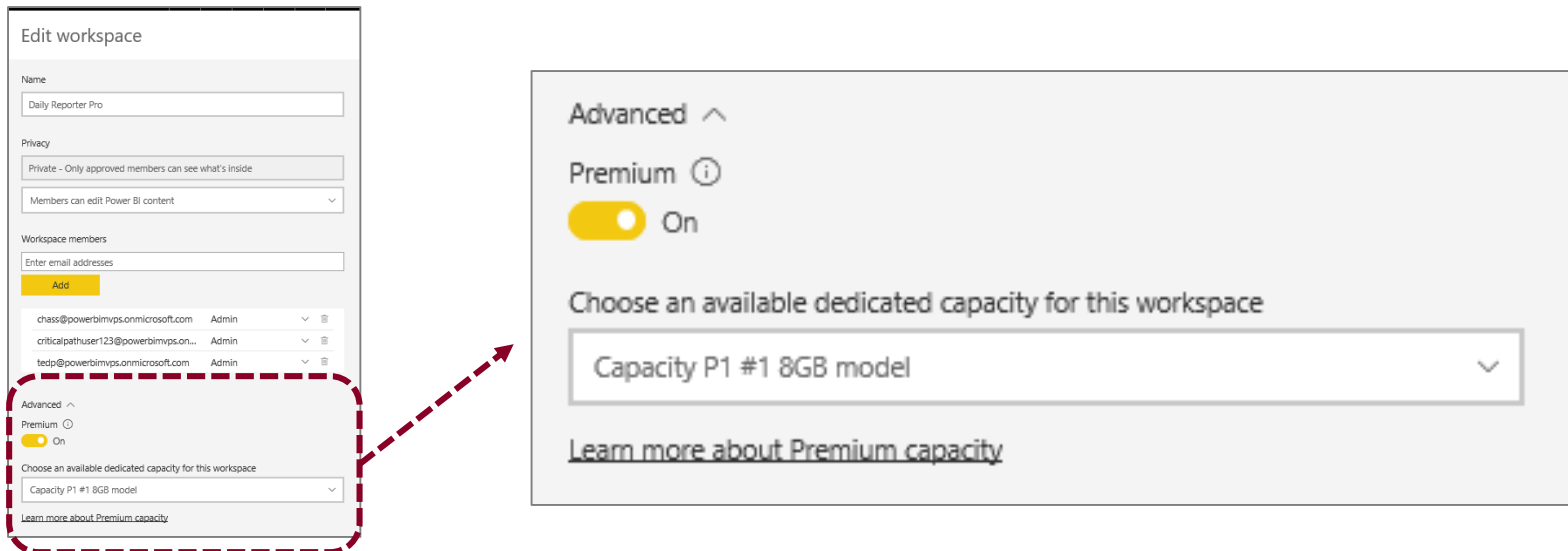


# Managing Capacities and App Workspaces

- App Workspace in Premium Capacity has diamond icon



- App workspace moved into Premium capacity in Advanced settings



# Dedicated Capacities

- Power BI workspaces run in two possible environments
  - Shared capacities
  - Dedicated capacities
- Dedicated capacity required for third party embedding
  - Customer pays capacity-based fee for processors cores and RAM
  - No need to pay Microsoft for user licenses
- Dedicated capacities come in two flavors
  - Power BI Premium capacities purchased through Office 365 SKU
  - Power BI Embedded capacities purchased through Azure SKU



# Managing Power BI 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 list of settings: Usage metrics, Users, Audit logs, Tenant settings, Capacity settings (highlighted with a yellow bar and an arrow), Embed Codes, and Organization visuals. To the right of the 'Capacity settings' link, there are tabs for 'Power BI Premium' (selected) and 'Power BI Embedded'. Below the 'Power BI Premium' tab, a section titled 'V-CORES' shows a progress bar indicating '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 also present. At the bottom, a table titled 'PREMIUM CAPACITIES' lists existing capacities.

CAPACITY NAME	CAPACITY ADMINS	ACTIONS	SKU	V-CORES
Capacity P1 #1 8GB budget, da... + 3 more			P1	8



# Summary

- ✓ Content Distribution in Power BI
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