Introduction to Power BI Premium

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Overview

How does it work?

Managing Power BI Premium

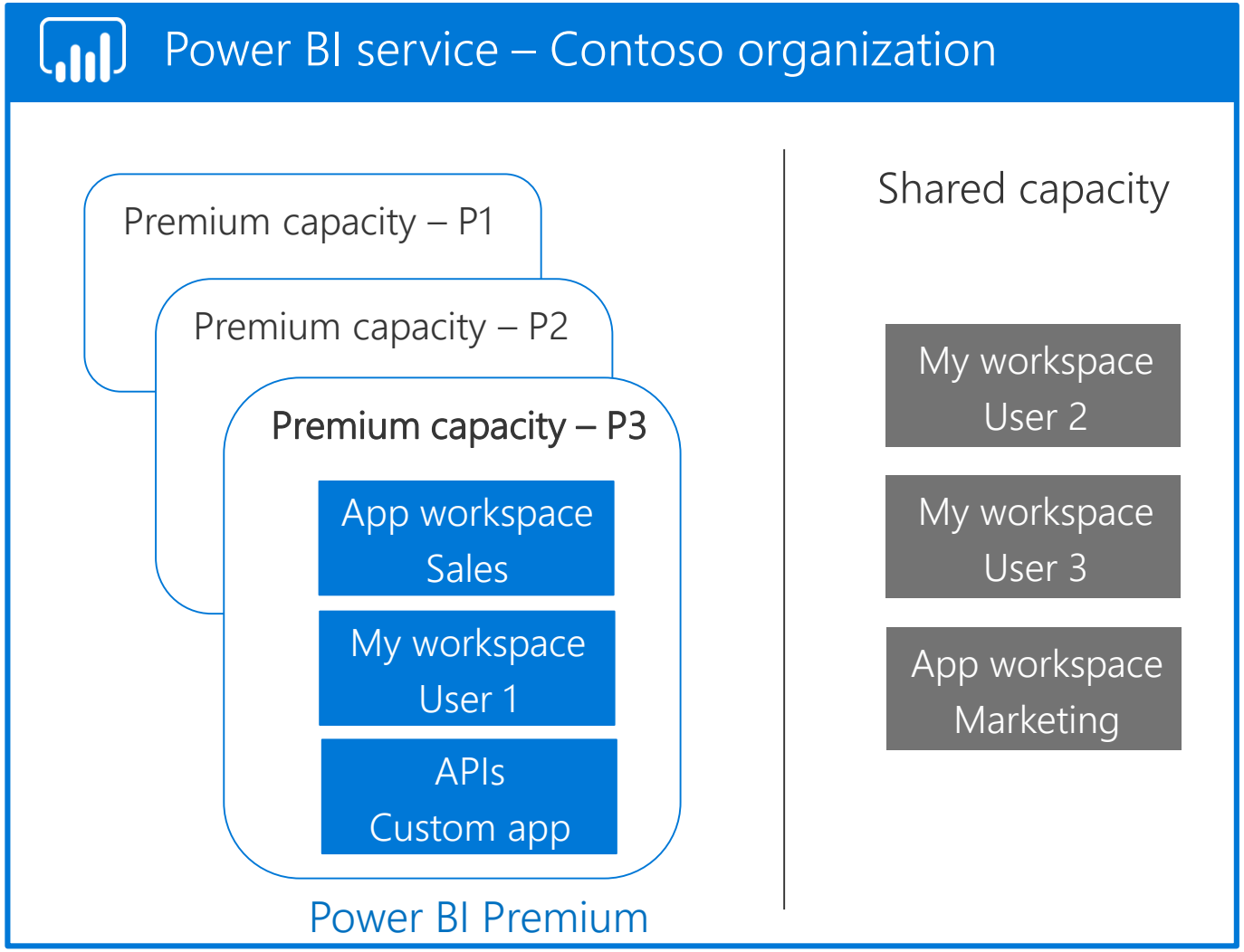
Power BI capability tiers

Summary

Power BI Premium

Dedicated resources in the cloud

- Greater scale and performance
- Flexibility to license by capacity
- Extending on-premises capabilities



Greater scale and performance

Noisy neighbor isolation

Enhance performance by moving workspaces to dedicated hardware

Larger datasets

Import a dataset up to 10 GB in size

Faster data refresh rates

Up to 48 times per day per model

Increased storage

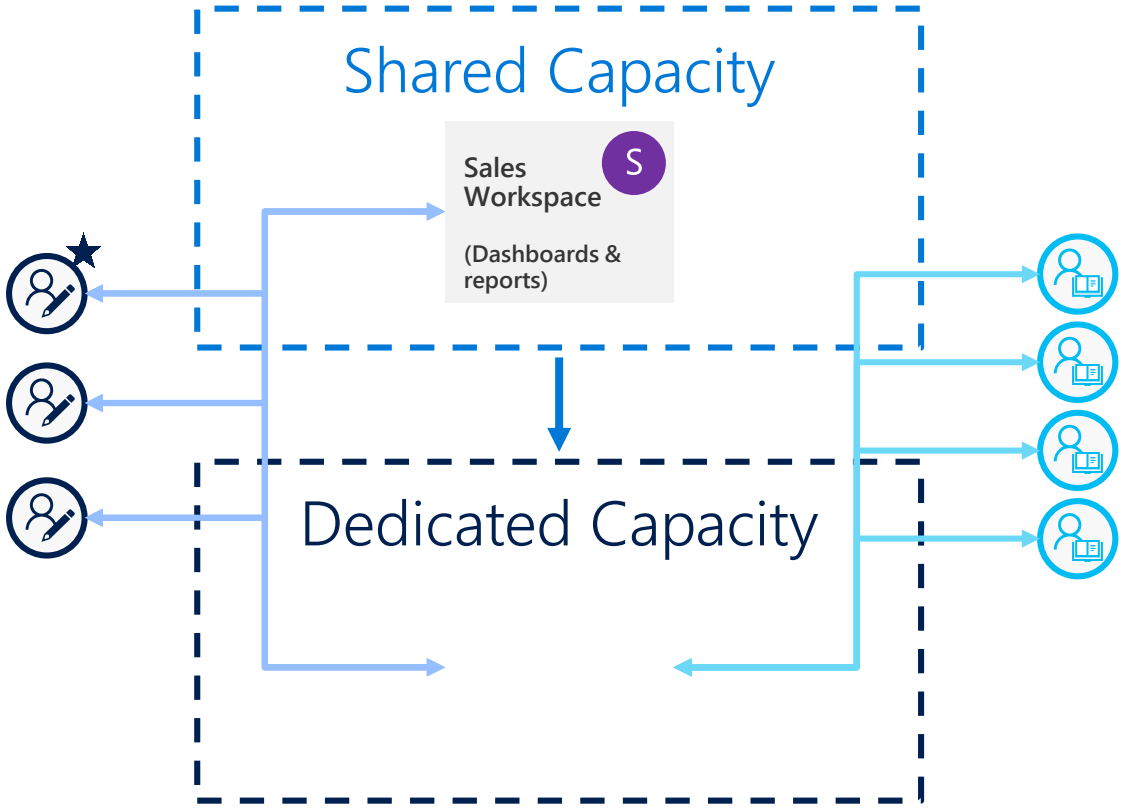
Total storage size up to 100 TB

Flexibility to license by capacity

Extend read access to a broader set of people without requiring per user license

Power BI Pro users have access to a sales workspace in shared capacity

Power BI Pro user with assignment permissions designates the workspace as Premium (dedicated capacity)



Non Power BI Pro users are not able to access sales workspace in shared capacity

Content running on dedicated capacity can be distributed to all users via a Power BI App

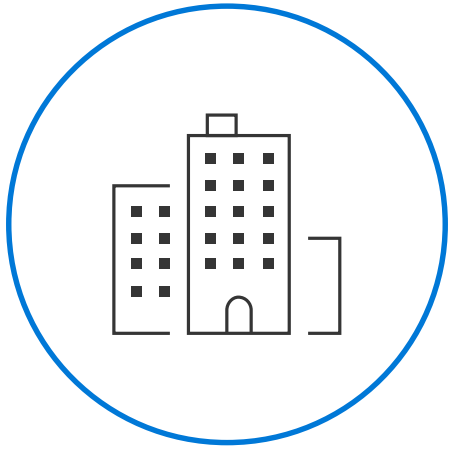
Power BI Pro user with permissions

Power BI Pro user without permissions

Basic user (Non Power BI Pro)

Extending on-premises capabilities

Power BI Report Server



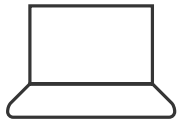
Flexibility to keep reports on-premises

Compatibility with SSRS reports

Concurrently deploy an equivalent number of cores on-premises

Power BI portfolio

Author



Power BI Desktop

Free data analysis
and report authoring tool

Licensed by user

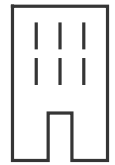
Share and collaborate

Power BI service

Cloud-based modern
business analytics solution

Licensed by user

Large scale deployments



Power BI Premium

Dedicated capacity for
increased performance

Licensed by capacity

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How Power BI Premium works

Buy dedicated capacity

Office 365 admin portal

Assign workspaces to your dedicated capacity

Consistent performance

Premium workspaces running on dedicated hardware

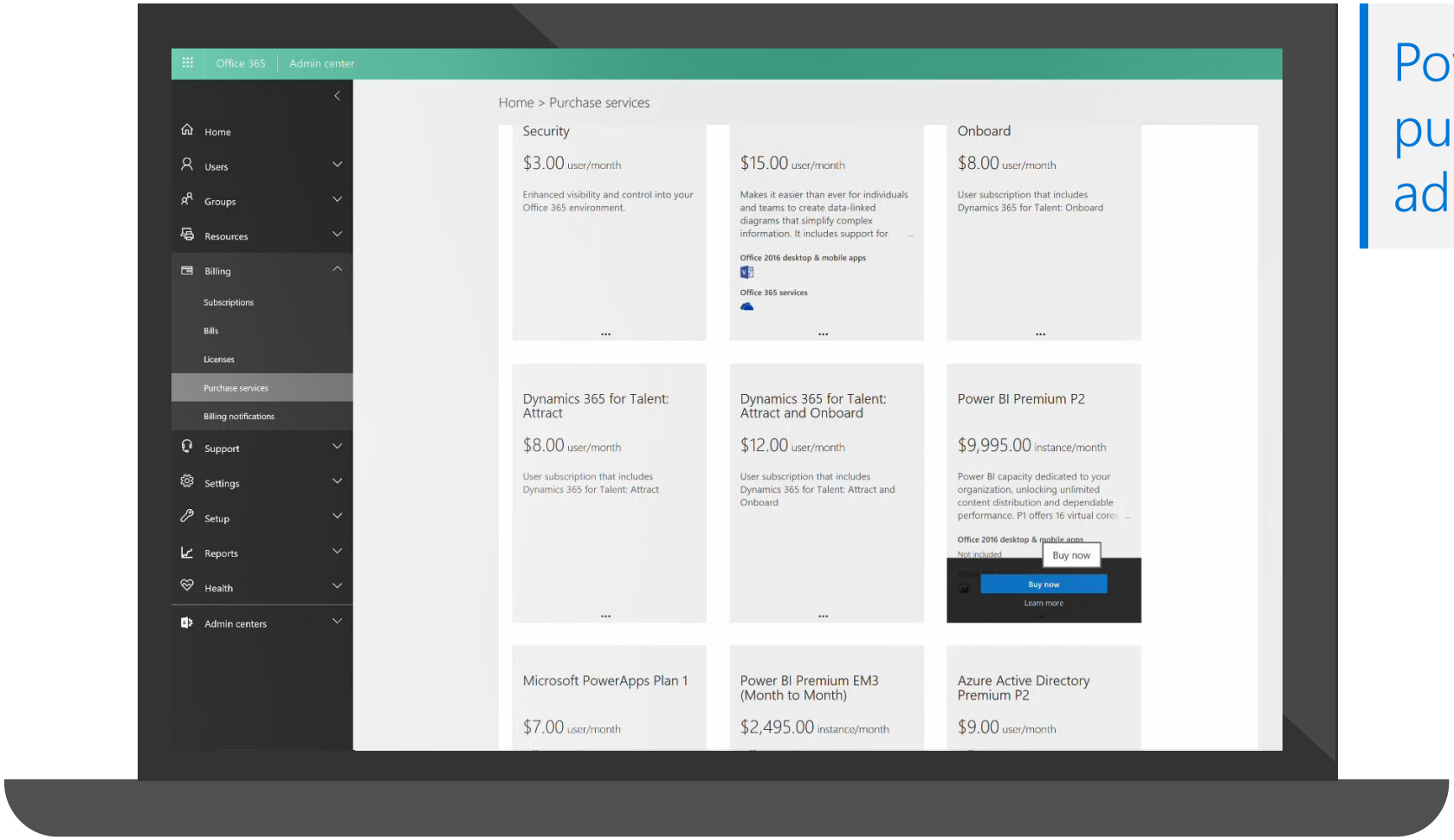
Distribute content to all users

Scale to meet your BI user needs

Power BI Apps

Buy dedicated capacity

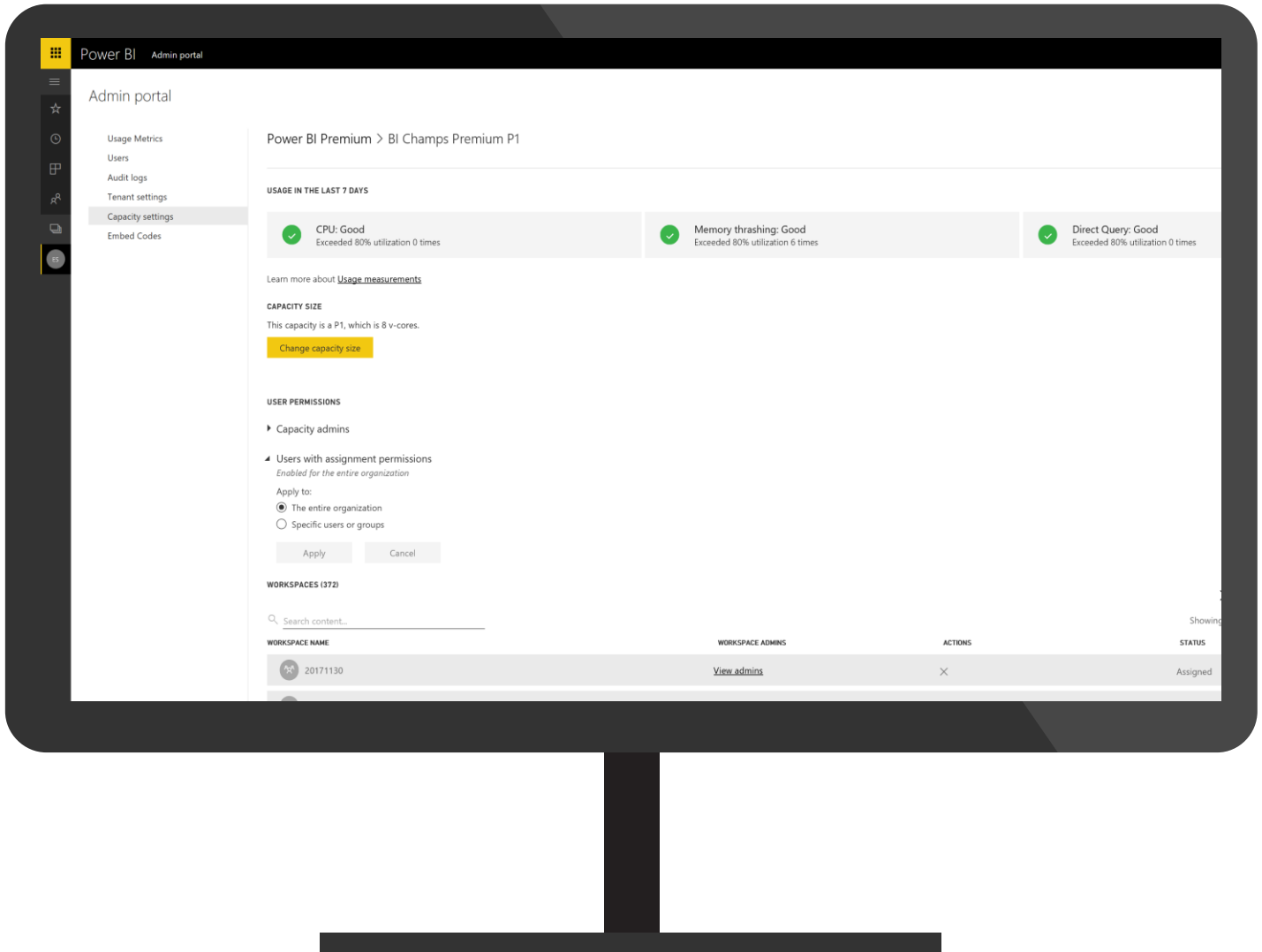
Securely through the office 365 admin portal



Power BI Premium is purchased via the Office 365 admin portal

Assign workspaces to your dedicated capacity

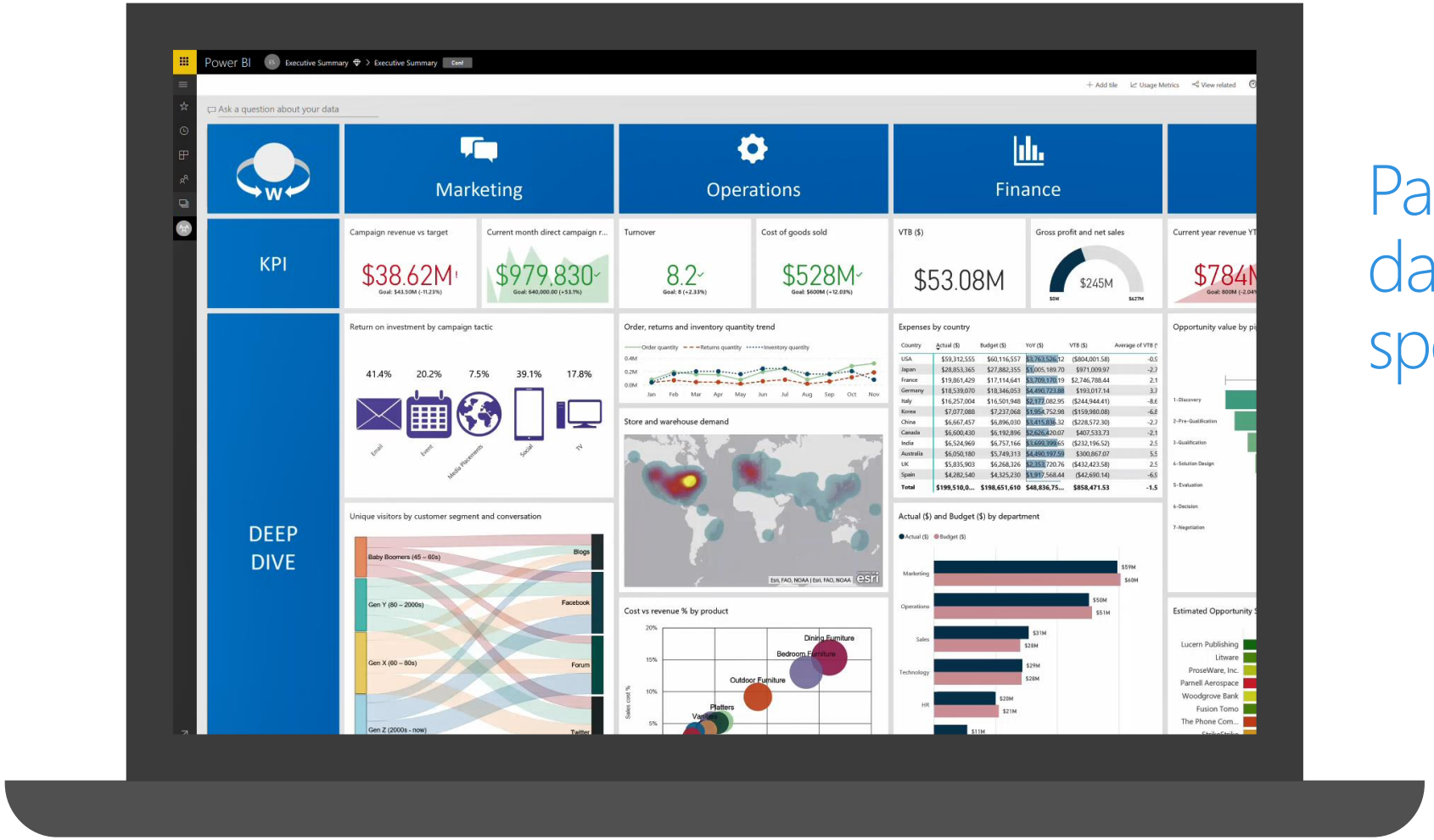
Consistent performance



- Allow the entire organization to use Premium capacity
- Migrate workspaces for a specifically scoped team of users
- All content within migrated workspaces runs on dedicated capacity

Power BI Apps

Distribute to all users



Package reports, dashboards and more to specific groups and users

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Managing Power BI Premium Content

Permissions

Two levels of assignment permissions

Management

Work with a consistent management experience

Workspaces

Easily assign workspaces

Capacity

Move content from shared to dedicated capacity

Permissions

Two levels of assignment permissions

Capacity admins

- Add capacity
- Assign admins
- Granting workspace permissions
- Bulk assign workspaces to capacity
- Remove workspaces from capacity
- Monitor capacity usage

Power BI Pro user with assignment permissions

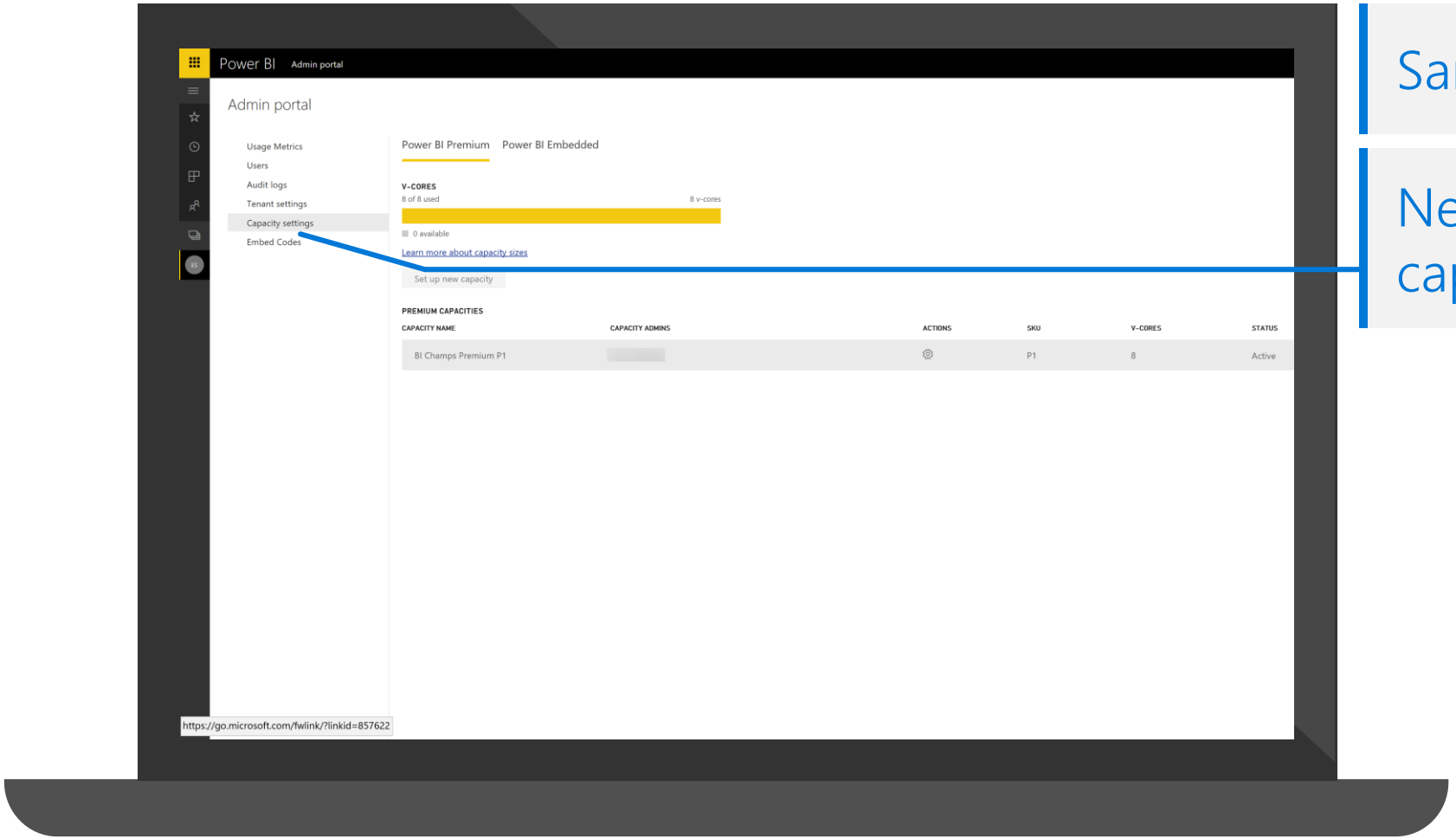
- Assign workspaces to capacity
- Grant other Pro users access to their capacity workspace

Management

Work with a consistent management experience

Capacity admin

Pro user with assignment permissions



Same admin portal

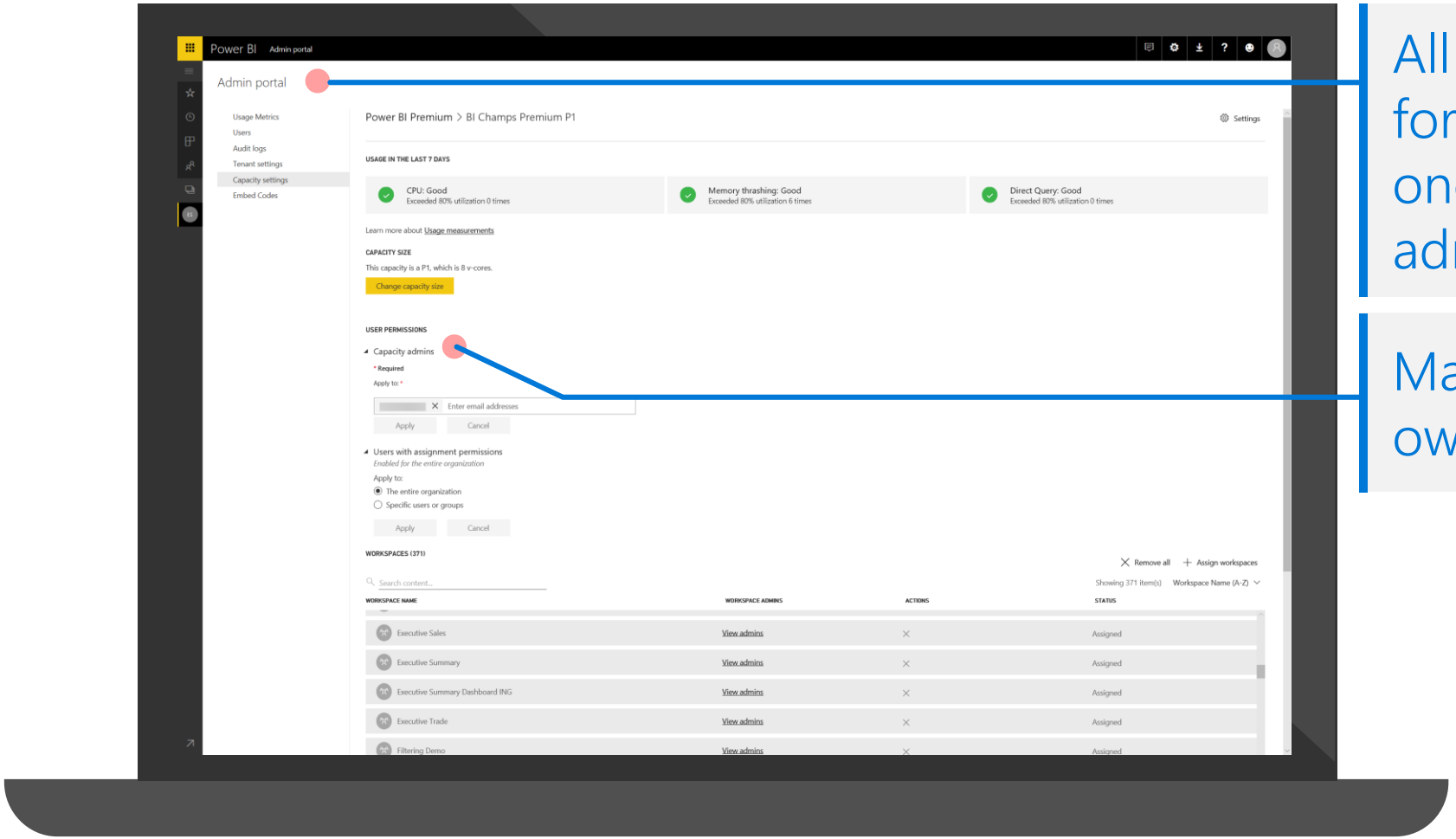
New setting for managing capacity

Management

Assign admins and capacity owners

Capacity admin

Pro user with assignment permissions



All administrative actions for Power BI Premium in one place – the Power BI admin portal

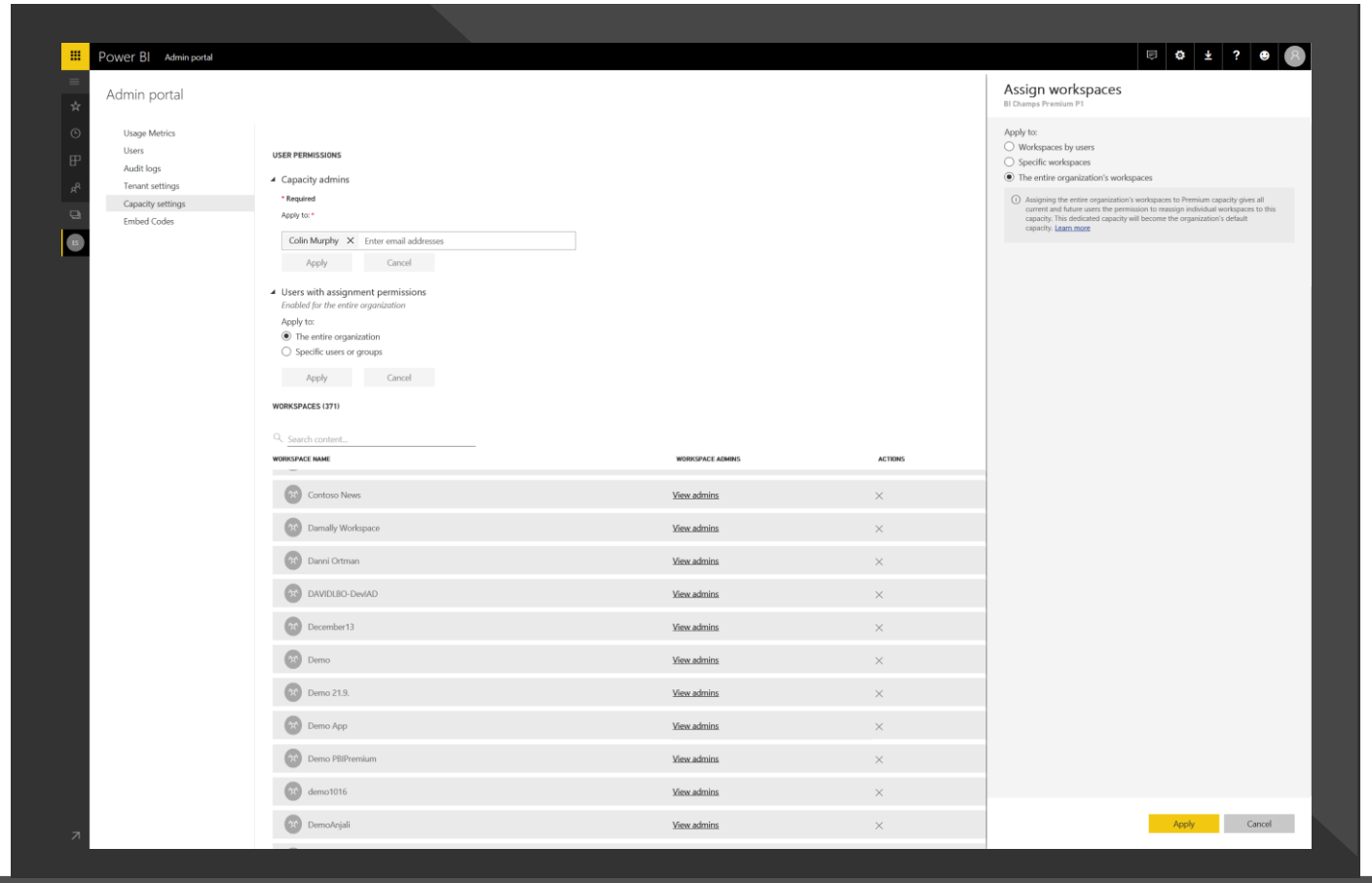
Manage the capacity owner list

Workspaces

Assign workspaces to dedicated capacity

Capacity admin

Pro user with assignment permissions



Migrate the entire organization workspaces

Migrate specific users' workspaces to capacity

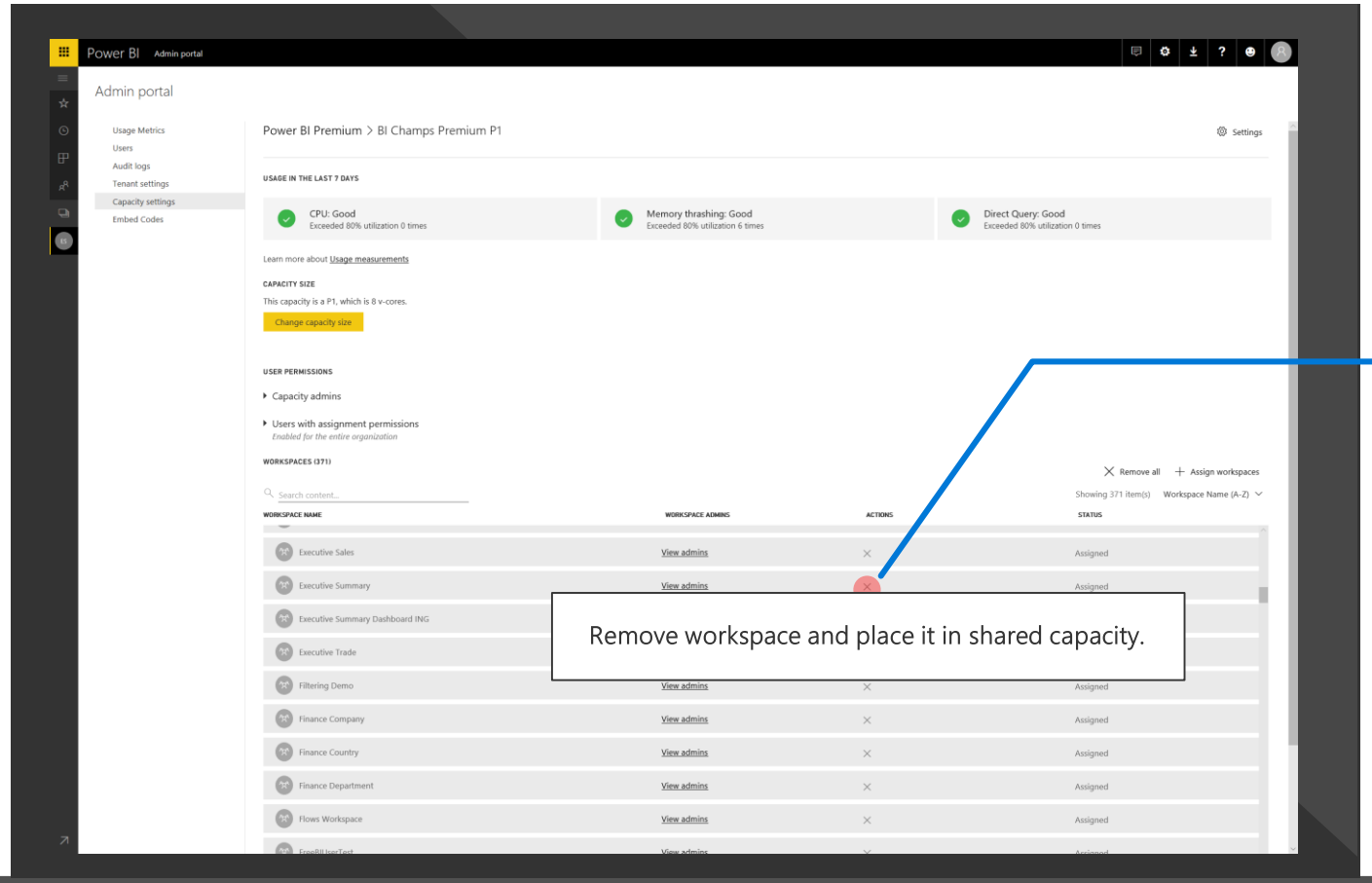
Migrate specific workspaces to capacity

Workspaces

Remove workspaces

Capacity admin

Pro user with assignment permissions



When a workspace is removed, it is moved to the shared capacity.

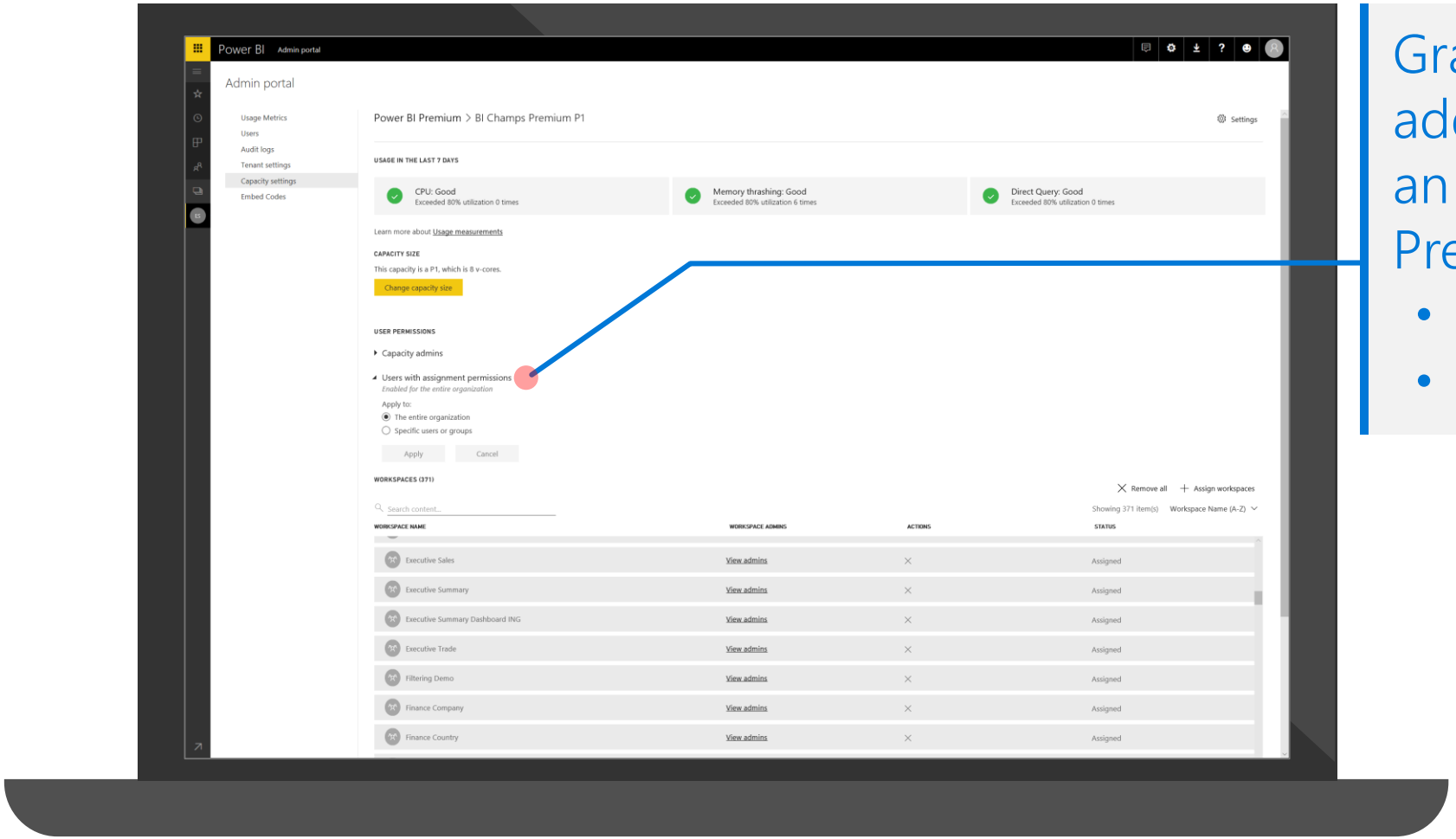
Content: Reports, Dashboard, Datasets are not deleted.

Workspaces

Grant workspace permissions

Capacity admin

Pro user with assignment permissions



Grant permissions to add additional workspaces to an instance of Power BI Premium for:

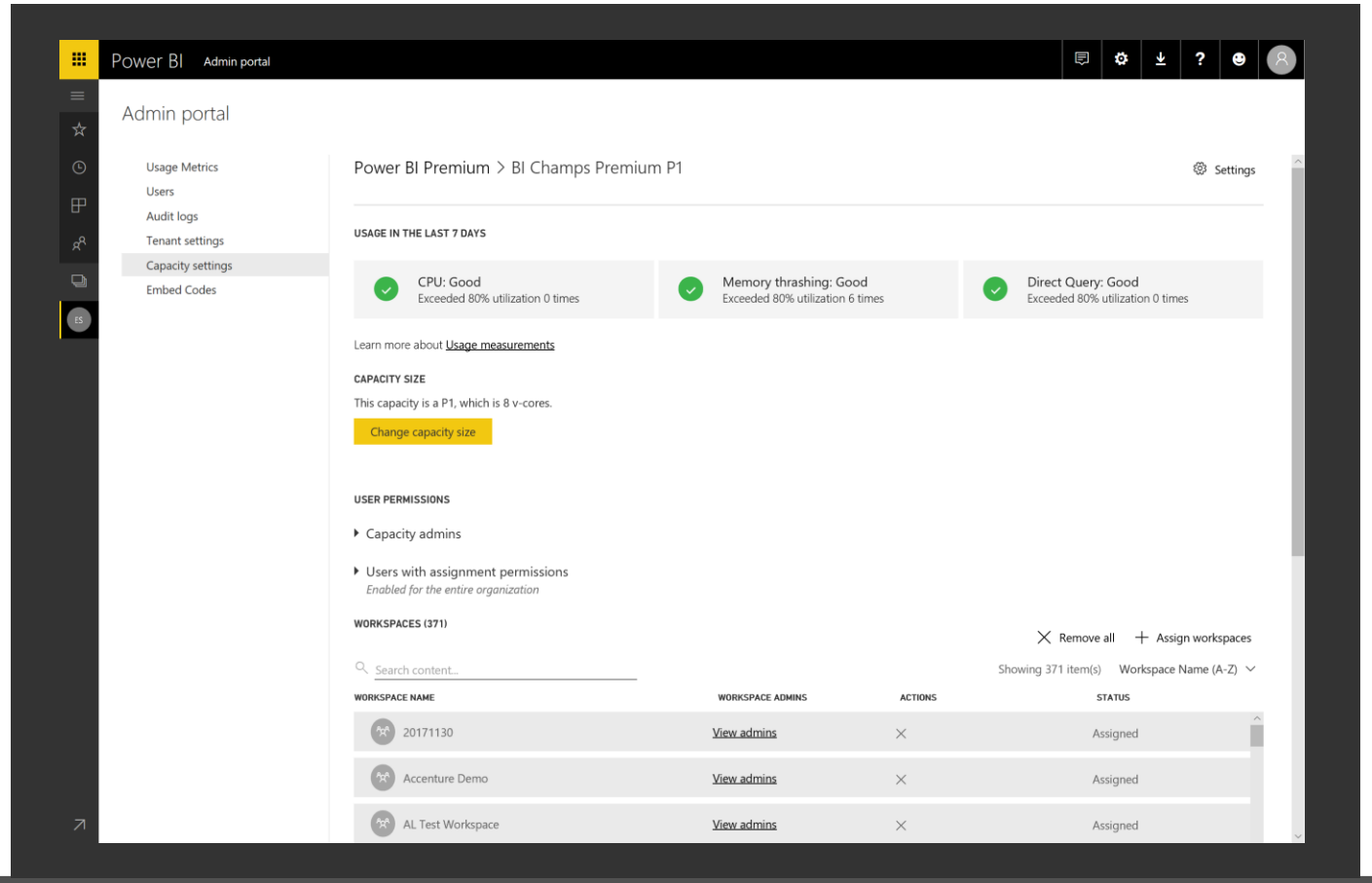
- The entire organization
- Specific users

Capacity

Monitor capacity usage

Capacity admin

Pro user with assignment permissions



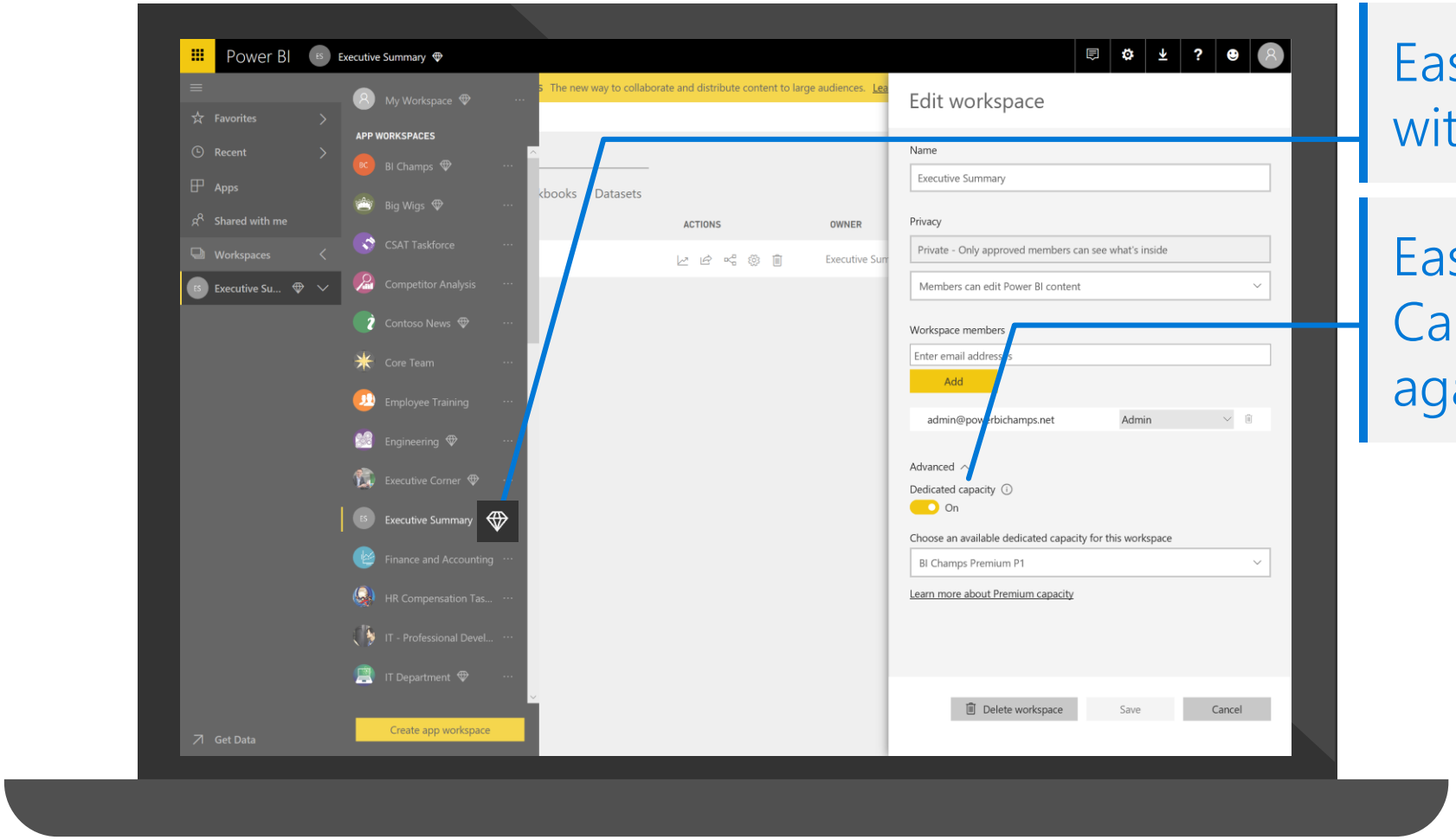
Easily visualize the usage of your dedicated capacity from the Power BI admin portal

Capacity

Move content from shared to dedicated capacity

Capacity admin

Pro user with assignment permissions



Easy to identify workspaces with Premium

Easily move content from Capacity to Shared and back again

Microsoft

Demo

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Power BI user license tiers

	Personal user	Pro ($10/user/month)
Connect to 80+ data sources	✓	✓
Publish to web	✓	✓
Peer-to-peer sharing	✗	✓
Enterprise distribution		
Apps	✗	✓
Email subscriptions	✗	✓
Embed APIs and controls	✗	✓
Collaboration		
Group workspaces	✗	✓
Analyze in Excel, analyze in Power BI Desktop	✗	✓
Support	Community	Phone and Email*

* For tenant administrators, phone support from Microsoft; for Pro users, email support from Microsoft.

Power BI capacity tiers

	Pro (shared, $10/u/m)	Premium (dedicated, $5k/m)
Total storage size	10 GB	100 TB
Refresh rate	8/day	48/day
Max imported dataset size	1 GB	10 GB
Isolation with dedicated hardware	✗	✓ [1]
Enterprise distribution to Free users		
Apps	✗	✓ [2]
Email subscriptions	✗	✓
Embed APIs and controls	✗	✓ [3]
Power BI reports on-premises	✗	✓

[1] EM3 SKU or higher.
[2] Basic user consumption in apps includes viewing content in web and mobile; using Q&A, Quick Insights, and Cortana; and exporting to Excel, CSV, and PowerPoint.
[3] Embedded SKUs only allow consumption through embedded APIs and controls, NOT apps or email subscriptions.

Collaboration vs. consumption

	Pro Self-service and collaboration - licensed per user	**Premium without Pro** Basic consumption - not licensed per user
Total storage size	10 GB	100 TB
Refresh rate	8/day	48/day
Max imported dataset size	1 GB	10 GB
Isolation with dedicated hardware	✗	✓[1]
Enterprise distribution		
Apps	Create and consume	Consume only[2]
Collaboration		
Edit and save customized views	✓	✗[3]
Create personal dashboards (pin to new dashboards)	✓	✗[3]
Connect and analyze data in Excel or Power BI Desktop	✓	✗[3]
Share and collaborate with Office 365 Groups and Microsoft Teams	✓	✗[3]

[1] EM3 SKU or higher.
[2] Basic user consumption in apps includes viewing content in web and mobile; using Q&A, Quick Insights, and Cortana; and exporting to Excel, CSV, and PowerPoint.
[3] Collaboration capabilities can be enabled with a Power BI Pro license per user.

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Power BI Premium pricing

Node	Virtual cores[1]	Deployment option
Power BI Premium EM1[3]	1	PaaS
Power BI Premium EM2[3]	2	PaaS
Power BI Premium EM3[3]	4	PaaS
Power BI Premium P1	8	SaaS or PaaS
Power BI Premium P2	16	SaaS or PaaS
Power BI Premium P3	32	SaaS or PaaS
Power BI Premium P4[4]	64	SaaS or PaaS
Power BI Premium P5[4]	128	SaaS or PaaS

How to purchase Power BI Premium

https://docs.microsoft.com/en-us/power-bi/service-admin-premium-purchase

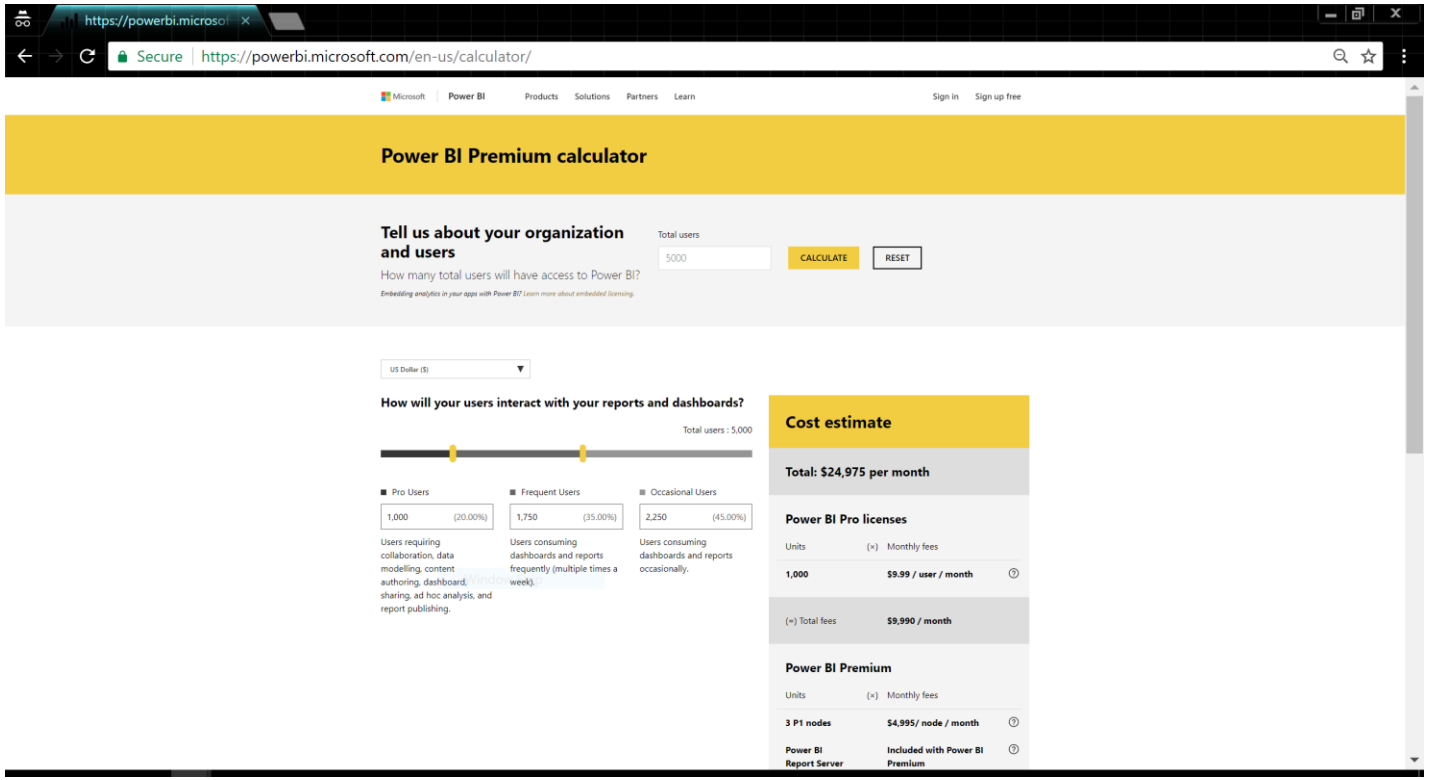
[1] Can use virtual core pooling to allocate capacities. See this for more information
[2] Yearly commitment. EM3-P1 also available with monthly commitment via Web Direct
[3] EM* SKUs do not include Power BI Report Server
[4] Coming soon

Preliminary information. Microsoft makes no warranties, express or implied

Capacity sizing guidance

1. Use the Power BI [Premium calculator]*

2. See the [Premium capacity planning and deployment whitepaper] for more



**The Premium calculator is based on a P1 node. V-core pooling is available for other node configurations. See [this] for more on v-core pooling.*

Additional Resources

Power BI Premium click through demo

https://aka.ms/pbipremclickthru

Power BI Premium whitepaper

https://aka.ms/pbipremiumwhitepaper

Power BI Premium calculator

https://powerbi.microsoft.com/en-us/calculator/

Documentation

https://docs.microsoft.com/en-us/power-bi/service-premium

Power BI Premium support for large datasets

https://powerbi.microsoft.com/en-us/blog/announcing-power-bi-premium-support-for-larger-datasets/

It's easy to get started...
PowerBI.com

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Questions