

A Day In The Life of a(n Accidental) Power BI Fabric Administrator

Nicky van Vroenhoven

bit.ly/adminpbi

Typical tasks of an admin

- Tenant settings
- Workspace creation
- Gateways & data sources
- Auditing & monitoring
- Premium capacity
- Desktop software
- (Usage of) Licensing
- Integration w/ 365 apps
- Power Platform integrations
- Power BI Report Server
- Training users
- General branding/theming guidelines
- Fabric Adoption
- Fabric Community/CoE
- ...

Typical tools of an admin

- Fabric (Admin) Portal
- Power Platform Admin Center
- Microsoft 365 Admin Center
- Security & Compliance Center
- Azure Active Directory Portal
- PowerShell
- REST APIs
- External tools like DaxStudio, ALM Toolkit, Tabular Editor
- ...

Who Are You?



bit.ly/adminpbi

Who Are You? (Admin)

May 14, 2024

This is a form for my Fabric Admin session.
All answers will be deleted after this session.

Start now



Check out my blog for a how-to:
www.nickyvv.com/2019/12

Nicky van Vroenhoven



Unit Lead Fabric & Power BI



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Data Platform MVP

bit.ly/adminpbi



Who Are You?



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Who Are You? (Admin)

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Microsoft Fabric

The data platform for the era of AI

Complete Analytics Platform

Everything, unified

SaaS-ified

Secured and governed

Lake Centric and Open

OneLake

One copy

Open at every tier

Empower Every Business User

Familiar and intuitive

Built into Microsoft 365

Insight to action

AI Powered

Copilot accelerated

Gen AI on your data

AI-driven insights

Secure and govern your data in Microsoft Fabric



Manage your data estate

Gain fine-grained control over your tenant, capacity, and workspace settings

Create a logical data mesh with domains to simplify management and increase data usage



Secure, protect & comply

Secure inbound and outbound network connections

Ensure only the right people have access internally

Maintain compliance with the strictest requirements



Encourage data discovery, trust, and use

Manage, catalog, and discover data in a logical, searchable data hub

Endorse and enrich high-quality data to create & promote curated, discoverable sources of truth

View the lineage for data items to identify origin and find other relevant sources



Monitor, uncover insights and act

Track metrics important to admins such as usage, billing, and access

See relevant insights about sensitive data and item endorsement

Give users the ability to closely monitor their Fabric activities

Gain full visibility and control

Governance and security features built into Fabric

Manage your data estate

 Admin portal and APIs

 Metadata scanning

 Capacities

 Domains

 Workspaces

Secure, protect, and comply

 Fabric inbound and outbound security

 Conditional access

 Fine-grained security and access controls

 Workspace & item security

 Purview sensitivity labeling

 Certifications

 Data residency

 Purview Audit

Encourage data discovery, trust, and use

 OneLake data hub

 Endorsement

 Data lineage & impact analysis

 External data sharing

 Metadata curation

Discover & Reuse

Monitor, uncover insights, and act

 Admin monitoring

 Capacity metrics

 Monitoring hub

 Purview Hub

Fabric metadata



Comprehensive data security¹



Federated data governance¹

Advanced Govern and secure Fabric data



Risk & compliance posture¹

Estate-wide governance and security with Microsoft Purview

Gain full visibility and control

Governance and security features built into Fabric

Manage your data estate

 **Admin portal and APIs**

 **Metadata scanning**

 **Capacities**

 **Domains**

 **Workspaces**

Secure, protect, and comply

 Fabric inbound and outbound security

 Conditional access

 Fine-grained security and access controls

 **Workspace & item security**

 Purview sensitivity labeling

 **Certifications**

 Data residency

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Encourage data discovery, trust, and use

 OneLake data hub

 **Endorsement**

 **Data lineage & impact analysis**

 External data sharing

 Metadata curation

Discover & Reuse

Monitor, uncover insights, and act

 **Admin monitoring**

 **Capacity metrics**

 **Monitoring hub**

 Purview Hub

Fabric metadata



Advanced Govern and secure Fabric data

Estate-wide governance and security with Microsoft Purview

 Comprehensive data security¹

 Federated data governance¹

 Risk & compliance posture¹

Takeaways

Features &
Configurations

- Understand the features and configurations available in Fabric from an administrator's perspective

Best Practices

- Understand the best practices while administering Fabric

Applicable

- Have enough experience with the above to be able to apply it when you return to your office

Topics

- **The Power BI Fabric Admin role**
- Admin portal & Tenant settings
- Collaboration and sharing
- Power Platform
- Monitoring & Automation

What is a Power BI Fabric Admin?

- Business, empowerment <> governance
- Support business users while enforcing the rules
- Part of Center of Excellence



From Power BI to Fabric Admin?

What has (not) changed?!

- Fabric is a Unified, SaaS Data Platform > One Lake to rule them all
- Power BI is now part of Fabric (with more workloads)
 - But Power BI itself didn't change (much)
- Core concepts of governance from Power BI are still applicable
 - Tenant
 - Capacities
 - Domains (New)
 - Workspaces
- New Fabric Items always require a capacity
- Fabric Admins: Empower different personas to excel

What is a Fabric Admin?

Type	Scope
Fabric (Power BI Service) Administrator	Fabric tenant
Fabric Gateway Administrator	Single gateway (cluster)
Fabric Capacity Administrator	Single capacity
Fabric Domain Admin	Single domain
Fabric Workspace Admin	Single workspace
Power Platform Administrator	Power Platform (& Fabric!) tenant

The Fabric Admin Role

- Azure Active Directory Microsoft Entra ID Role Assignment

The screenshot shows the 'Roles and administrators | All roles' page in the Azure portal. The left sidebar has navigation items: 'All roles' (selected), 'Protected actions', 'Diagnose and solve problems', 'Activity' (with a dropdown menu), and 'Troubleshooting + Support'. The main area displays a message: 'To create custom roles, your organization needs Microsoft Entra ID Premium P1 or P2. Standard roles are included for free.' Below this, it says 'Your Role: Global Administrator'. A table lists two roles:

Role	Description
<input type="checkbox"/> Fabric Administrator	Can manage all aspects of Microsoft Fabric.
<input type="checkbox"/> Power Platform Administrator	Can create and manage all aspects of Microsoft Dynamics 365, PowerApps and Microsoft Flow.

The Fabric Admin Role

- Azure Active Directory Role Assignment

The screenshot shows the 'Fabric Administrator' role details in the Microsoft Fabric portal. The left sidebar includes links for Home, Roles, All roles (which is selected), Protected access, Diagnose and fix, Activity, and Troubleshoot. The main content area displays the role's name, description, template ID, and related articles. It also lists the specific permissions assigned to this role.

Summary

Name: Fabric Administrator

Description: Users with this role have global permissions within Microsoft Fabric, when the service is present, as well as the ability to manage support tickets and monitor service health.

Template ID: a9ea8996-122f-4c74-9520-8edcd192826c

Related articles: [Assigning administrator roles in Microsoft Entra ID](#)

Role permissions

microsoft.azure.serviceHealth/allEntities/allTasks	Read and configure Azure Service Health
microsoft.azure.supportTickets/allEntities/allTasks	Create and manage Azure support tickets
microsoft.office365.serviceHealth/allEntities/allTasks	Read and configure Service Health in the Microsoft 365 admin center
microsoft.office365.supportTickets/allEntities/allTasks	Create and manage Microsoft 365 service requests
microsoft.office365.webPortal/allEntities/standard/read	Read basic properties on all resources in the Microsoft 365 admin center
microsoft.powerApps.powerBI/allEntities/allTasks	Manage all aspects of Power BI

The Fabric Admin Role

- Azure Active Directory Role Assignment

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Role permissions

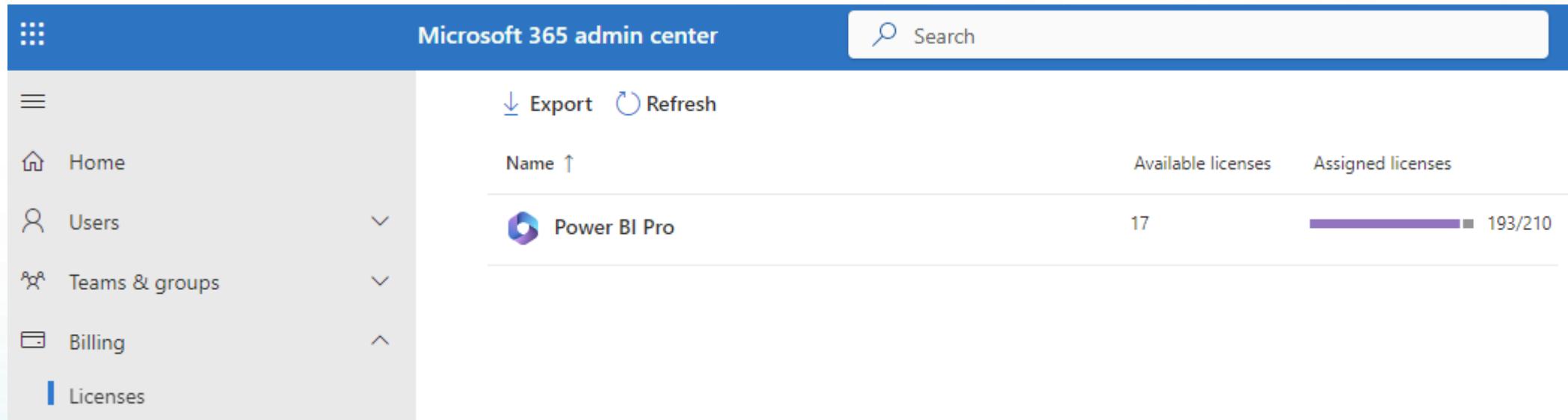
microsoft.azure.serviceHealth/allEntities/allTasks	Read and configure Azure Service Health
microsoft.azure.supportTickets/allEntities/allTasks	Create and manage Azure support tickets
microsoft.office365.serviceHealth/allEntities/allTasks	Read and configure Service Health in the Microsoft 365 admin center
microsoft.office365.supportTickets/allEntities/allTasks	Create and manage Microsoft 365 service requests

powerApps powerBI/allEntities/allTasks

Manage all aspects of Power BI

The Fabric Admin Role

- Admins can also **view** license assignments



The screenshot shows the Microsoft 365 admin center interface. On the left, there's a navigation sidebar with icons for Home, Users, Teams & groups, Billing, and Licenses. The Licenses option is currently selected and highlighted in blue. The main content area is titled "Microsoft 365 admin center" and features a search bar. Below the search bar are two buttons: "Export" and "Refresh". A table displays license information. The columns are "Name ↑", "Available licenses", and "Assigned licenses". A single row is shown for "Power BI Pro", which has 17 available licenses and 193 assigned licenses out of 210, represented by a progress bar.

Name ↑	Available licenses	Assigned licenses
Power BI Pro	17	<div style="width: 90%;"><div style="width: 95%;">193/210</div></div>

Topics

- The Power BI Fabric Admin role
- **Admin portal & Tenant settings**
- Collaboration and sharing
- Power Platform
- Monitoring & Automation

Admin Portal

- Access granted for:
 - Global Admin
 - Power Platform Administrator
 - Fabric Administrator
- Access cannot be delegated

Admin portal

Tenant settings New

Usage metrics

Users

Premium Per User

Audit logs

Domains New

Capacity settings

Refresh summary

Embed Codes

Organizational visuals

Azure connections

Workspaces

Custom branding

Protection metrics

Featured content

Help + support

ⓘ There are new or updated tenant settings.

Microsoft Fabric

▷ Data Activator (preview)

Enabled for the entire organization

▷ Users can create Fabric items

Enabled for the entire organization

▷ Users can create Fabric environments to

Enabled for the entire organization

▷ Sustainability solutions (preview)

Disabled for the entire organization

▷ Retail data solutions (preview)

Disabled for the entire organization

▷ Healthcare data solutions (preview)

Disabled for the entire organization

▷ Create Eventhouse (preview)

Disabled for the entire organization

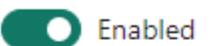
Tenant Settings

- Access = Admin Portal
- Controls tenant level operations
- Provides for granular settings
 - Create groups for every setting (you want to customize)

- Users can create Fabric items

Unapplied changes

Users can use production-ready features to create Fabric items. Turning off this setting doesn't impact users' ability to create Power BI items. This setting can be managed at both the tenant and the capacity levels. [Learn More](#)



Apply to:

The entire organization

Specific security groups

Enter security groups

Specify at least one security group.

Except specific security groups

Delegate setting to other admins ①

Select the admins who can view and change this setting, including any security group selections you've made.

Capacity admins can enable/disable

Apply

Cancel

Tenant Settings

- Document
 - Why, and communicate!
- Manually
- Power Automate Desktop
- **GetTenantSettings API**

	A	B	C	D	E	F
1	Setting Type	Setting	Current Value	Current Value (Icon)		
2	Help and suppo	Publish "G	Disabled for the	X		
3	Help and suppo	Receive e	Disabled for the	X		
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
15						
16						

By Kurt Buhler

Fabric Tenant Settings APIs

- **GetTenantSettings**
 - Document settings for audits
 - Tracking changes
 - Share with non-Admin users
- **GetTenantSettingOverrides**
 - Increased visibility and Security
 - Aids in troubleshooting

The screenshot shows a web-based interface titled "Fabric Tenant Settings". At the top right, there is a date field set to "2023-06-01" and a dropdown arrow. The main area is a table with two columns: "Setting Group" and "Setting". The "Setting Group" column lists various categories such as Admin API settings, Advanced networking, Audit and usage settings, etc. The "Setting" column contains detailed descriptions of each setting. To the right of the table, there are columns for "CurrentSettingValue", "LastSettingValue", and "Any Change ?". The "Any Change ?" column contains small red arrows indicating changes. The table has a light gray background with alternating row colors.

Setting Group	Setting	CurrentSettingValue	LastSettingValue	Any Change ?
Export and sharing settings	Publish to web	True	False	▶
Help and support settings	Show a custom message before publishing reports	False	True	▶
Integration settings	Redshift SSO	True	True	▶
Help and support settings	Users can try Microsoft Fabric paid features	True	NEW	▶
Microsoft Fabric (Preview)	Users can create Fabric items (public preview)	False	NEW	▶
Admin API settings	Allow service principals to use read-only admin APIs	False	False	✓
Admin API settings	Enhance admin APIs responses with DAX and mashup expressions	False	False	✓
Admin API settings	Enhance admin APIs responses with detailed metadata	False	False	✓
Advanced networking	Azure Private Link	False	False	✓
Advanced networking	Block Public Internet Access	False	False	✓
Audit and usage settings	Azure Log Analytics connections for workspace administrators	False	False	✓
Audit and usage settings	Per-user data in usage metrics for content creators	True	True	✓
Audit and usage settings	Usage metrics for content creators	True	True	✓
Content pack and app settings	Create template organizational content packs and apps	False	False	✓
Content pack and app settings	Publish content packs and apps to the entire organization	True	True	✓
Content pack and app settings	Push apps to end users	True	True	✓
Dashboard settings	Web content on dashboard tiles	True	True	✓
Data model settings	Users can edit data models in the Power BI service (preview)	True	True	✓
Dataflow settings	Create and use dataflows	True	True	✓
Datamart settings	Create Datamarts (Preview)	True	True	✓
Dataset Security	Block republish and disable package refresh	False	False	✓
Developer settings	Allow service principals to create and use profiles	False	False	✓
Developer settings	Allow service principals to use Power BI APIs	False	False	✓
Developer settings	Block ResourceKey Authentication	False	False	✓
Developer settings	Embed content in apps	True	True	✓
Discovery settings	Discover content	True	True	✓

Source: [Microsoft Fabrics Monitoring Tenant Settings by Romain Casteres | LinkedIn](#)

Tenant Settings

- Document
 - Why and communicate!
- Change notification
 - Set up [email alerts](#) when a setting is changed with Defender for Cloud Apps

Tenant Settings

- Document
 - Why and communicate!
- Change notification
 - Set up [email alerts](#) when

Admin notification for new activity policy match

A new match was detected for your 'Power BI - Administrative Activity' policy.

Activity: Update admin feature switch: PowerBI Admin Feature
CertifyDatasets; Parameters: property **Switch State False**
App: Microsoft Power BI
Client IP address: 165.225.13.72
Client location: Belgium
Client device: Windows 10
User: Admin - Van Vroenhoven, N.V. (Nicky)
(adm_vanvroen@)
Alert ID: 62913c328525e3473469c391

[>> Review this alert](#)

Explore more options:

[>> Investigate other activities from this user](#)
[>> Investigate other activities from this IP address](#)

This email was sent to you because a policy was set to alert you when new matches are detected. [Update policy settings](#)

Thanks, Microsoft Defender for Cloud Apps

Tenant Settings

Check the defaults:

- Publish to web
- Create Fabric Items
- OpenAI / Copilot
- Power BI visuals (2 settings)

Topics

- The Power BI Fabric Admin role
- Admin portal & Tenant settings
- **Collaboration and sharing**
- Power Platform
- Monitoring & Automation

Collaboration and sharing

- My Workspace
- Domains
- Workspaces
- Apps
- Endorsements (promote, certify)
- Sensitivity labels

It's called **My Workspace** for a reason!

- It's for **personal** use only
 - Rather: create a shared workspace [Nicky's workspace]
- Released last year:
 - [My workspace governance improvements](#)
 - Fabric Admins can now add (and remove) themselves as admin of [My workspace]
 - Exposed via Activity Log: **AddAdminPersonalWorkspaceAccess**

Domains, Workspaces & Apps

- Domains
 - =! Data mesh ☺
- Workspaces
 - Control creation
- Apps
 - Free if backed by Premium (per capacity)
 - Audiences
- Manage *Export and sharing settings*

Export and sharing settings

- ▷ Allow Azure Active Directory guest users to access Power BI
Enabled for the entire organization
- ▷ Invite external users to your organization
Enabled for the entire organization
- ▷ Allow Azure Active Directory guest users to edit and
Disabled for the entire organization
- ▷ Show Azure Active Directory guests in lists of suggested users
Enabled for the entire organization
- ▷ Publish to web ⓘ
Enabled for the entire organization
- ▷ Copy and paste visuals
Enabled for the entire organization
- ▷ Export to Excel
Enabled for the entire organization
- ▷ Export to .csv
Enabled for the entire organization
- ▷ Download reports
Enabled for the entire organization
- ▷ Users can work with Power BI datasets in Excel using DirectQuery
Enabled for the entire organization
- ▷ Export reports as PowerPoint presentations or PDF files
Enabled for the entire organization
- ▷ Export reports as MHTML documents
Enabled for the entire organization
- ▷ Export reports as Word documents
Enabled for the entire organization
- ▷ Export reports as XML documents
Enabled for the entire organization
- ▷ Export reports as image files
Disabled for the entire organization
- ▷ Print dashboards and reports
Enabled for the entire organization
- ▷ Certification
Disabled for the entire organization
- ▷ Create email subscriptions
Enabled for the entire organization
- ▷ Allow email subscriptions to be sent to external users
Enabled for the entire organization
- ▷ Featured content
Enabled for the entire organization
- ▷ Allow connections to featured tables
Enabled for the entire organization
- ▷ Allow shareable links to grant access to everyone in your organization
Enabled for the entire organization
- ▷ Enable Microsoft Teams integration in the Power BI service
Enabled for the entire organization
- ▷ Install Power BI app for Microsoft Teams automatically
Enabled for the entire organization
- ▷ Enable Power BI add-in for PowerPoint
Enabled for the entire organization
- ▷ Allow DirectQuery connections to Power BI datasets
Enabled for the entire organization
- ▷ Guest users can work with shared datasets in their own tenants
Disabled for the entire organization
- ▷ Allow specific users to turn on external data sharing
Enabled for the entire organization

Domains, Workspaces & Apps

- Use M365 groups to manage access
 - [workspace]-[dev/test/prod]-[role]
 - Finance-dev-members
 - Finance-dev-viewers
 - Finance-dev-app/audience
 - Finance-dev-read
 - Finance-dev-write

Extra points:

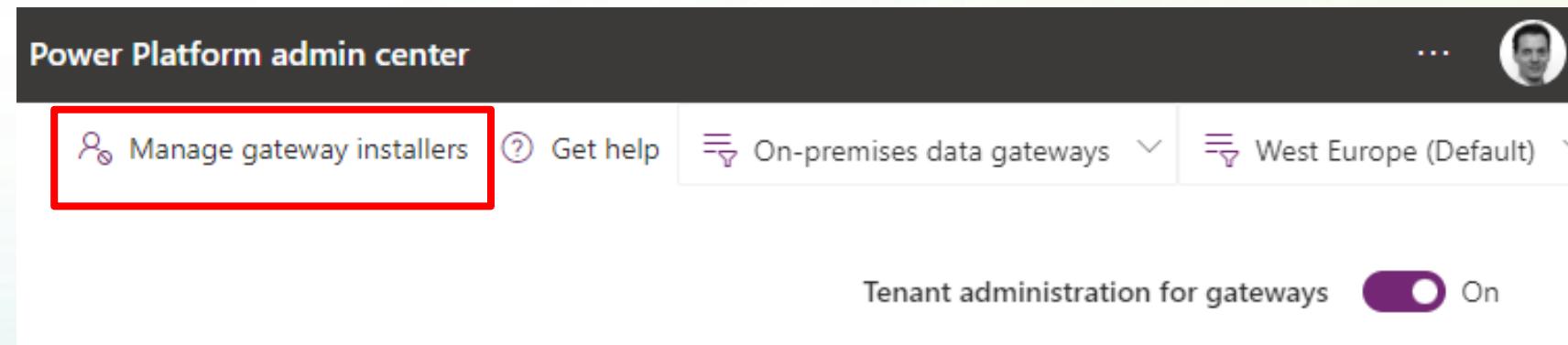
- Tie into your approval process
- Preferably with IAM

Topics

- The Power BI Fabric Admin role
- Admin portal & Tenant settings
- Collaboration and sharing
- **Power Platform**
- Monitoring & Automation

Power Platform Admin Center

- Restricted access for Fabric Admins



Power Platform Admin Center

- Restricted access for Fabric Admins
- Gateway & data source management (now also in Fabric)

The screenshot shows the Power Platform Admin Center interface. At the top, there is a navigation bar with the powerdobs logo, Power BI, Direct Lake, a search bar, and user information indicating a trial period of 32 days left. Below the navigation bar, there are two main buttons: 'Manage gateway installers' and 'On-premises data gateway'. The 'Manage gateway installers' button is highlighted with a red box. A modal window titled 'Manage gateway installers' is open on the right side of the screen. The modal contains instructions about managing gateway installers and a toggle switch labeled 'Restrict users in your organization from installing gateways' which is set to 'Off'. The background shows a 'Data (preview)' section with tabs for Connections, On-premises data gateways (which is selected), and Virtual network data.

Power Platform Admin Center

- Restricted access for Fabric Admins
- Gateway & data source management (now also in Fabric)
- Data Loss Prevention Policy

The screenshot shows the 'Power Platform admin center' interface. In the top navigation bar, the path 'DLP Policies > Edit Policy' is visible. On the left, a sidebar lists three sections: 'Policy name' (selected, showing 'Default DLP Policy'), 'Prebuilt connectors' (selected), and 'Custom connectors'. On the right, under 'Assign connectors', there are three tabs: 'Business (54)' (selected), 'Non-business (1164) | Default', and 'Blocked (0)'. Below the tabs, a note states: 'Connectors for sensitive data. Connectors in this group can't share data with connectors in other groups.'

Topics

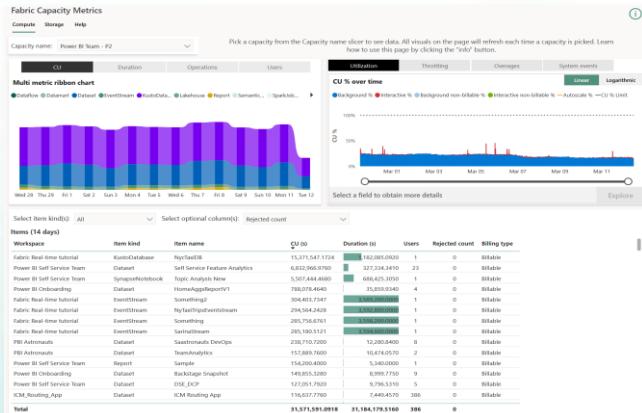
- The Power BI Fabric Admin role
- Admin portal & Tenant settings
- Collaboration and sharing
- Power Platform
- **Monitoring & Automation**

Monitoring scenarios in Fabric (out-of-the-box)

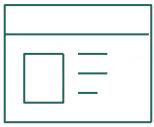


Consumption & Resource Utilization

Monitor capacities and optimize/allocate consumption

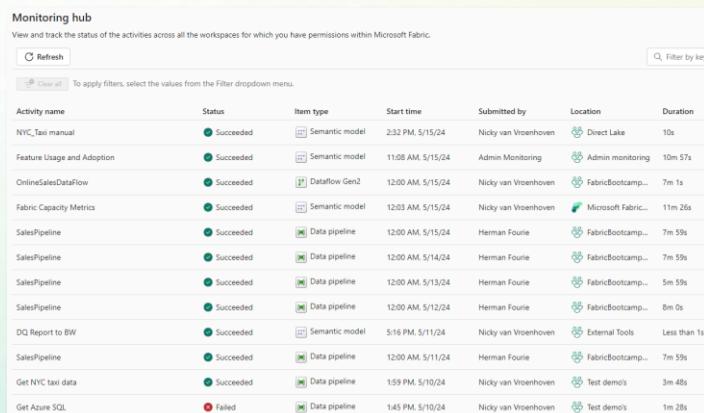


Capacity Metrics App



Jobs Monitoring

Manage jobs across my Fabric artifacts



Fabric Monitoring Hub



Usage, Adoption & Performance

Monitor overall Fabric health and track performance of data assets across the system



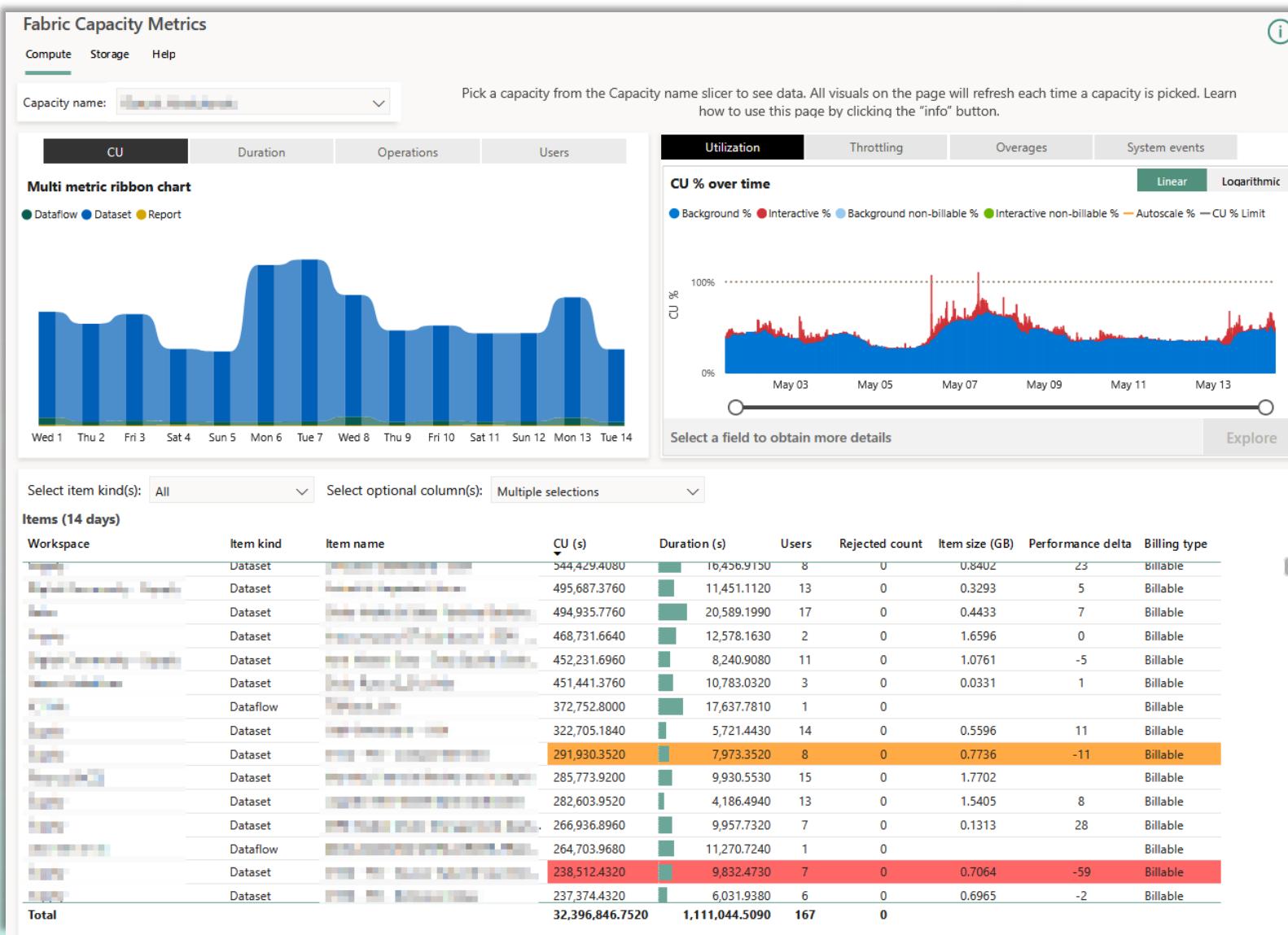
Admin Monitoring

Monitoring & automation

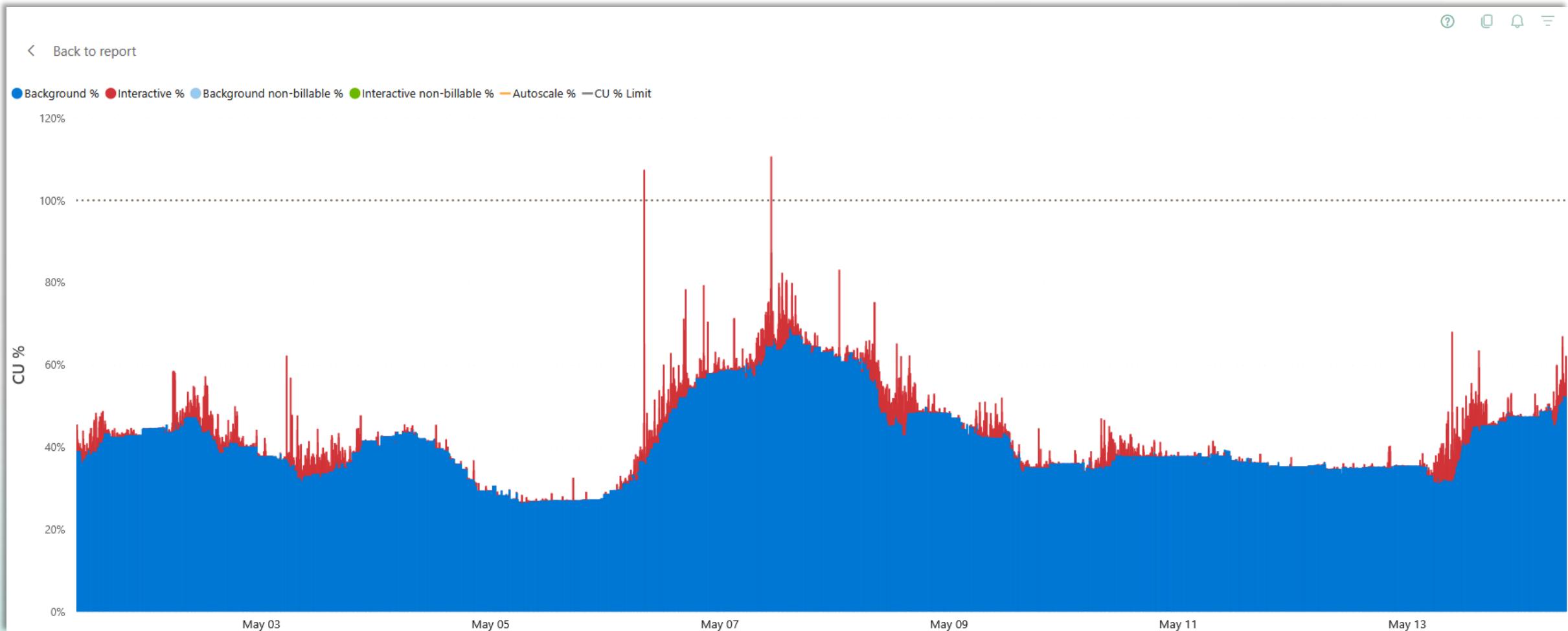
- Monitoring Hub

Monitoring hub							Filter by keyword		Filter
Activity name	Status	Item type	Start time	Submitted by	Location	Duration	Status		
To apply filters, select the values from the Filter dropdown menu.									
NYC_Taxi manual	✓ Succeeded	Semantic model	2:32 PM, 5/15/24	Nicky van Vroenhoven	Direct Lake	10s	<input type="checkbox"/> Cancelled	<input checked="" type="checkbox"/> Succeeded	<input type="checkbox"/> Failed
Feature Usage and Adoption	✓ Succeeded	Semantic model	11:08 AM, 5/15/24	Admin Monitoring	Admin monitoring	10m 57s	<input type="checkbox"/> In progress	<input type="checkbox"/> Not started	<input type="checkbox"/> Unknown
OnlineSalesDataFlow	✓ Succeeded	Dataflow Gen2	12:00 AM, 5/15/24	Nicky van Vroenhoven	FabricBootcamp...	7m 1s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Fabric Capacity Metrics	✓ Succeeded	Semantic model	12:03 AM, 5/15/24	Nicky van Vroenhoven	Microsoft Fabric...	11m 26s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SalesPipeline	✓ Succeeded	Data pipeline	12:00 AM, 5/15/24	Herman Fourie	FabricBootcamp...	7m 59s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SalesPipeline	✓ Succeeded	Data pipeline	12:00 AM, 5/14/24	Herman Fourie	FabricBootcamp...	7m 59s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SalesPipeline	✓ Succeeded	Data pipeline	12:00 AM, 5/13/24	Herman Fourie	FabricBootcamp...	5m 59s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
SalesPipeline	✓ Succeeded	Data pipeline	12:00 AM, 5/12/24	Herman Fourie	FabricBootcamp...	8m 0s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
DQ Report to BW	✓ Succeeded	Semantic model	5:16 PM, 5/11/24	Nicky van Vroenhoven	External Tools	Less than 1s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> 24
SalesPipeline	✓ Succeeded	Data pipeline	12:00 AM, 5/11/24	Herman Fourie	FabricBootcamp...	7m 59s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Get NYC taxi data	✓ Succeeded	Data pipeline	1:59 PM, 5/10/24	Nicky van Vroenhoven	Test demo's	3m 48s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A
Get Azure SQL	✗ Failed	Data pipeline	1:45 PM, 5/10/24	Nicky van Vroenhoven	Test demo's	1m 28s	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> N/A

Capacity Metrics App



Capacity Metrics App



Capacity Metrics App

Fabric Capacity Metrics

Start: 5/7/2024 10:52:00 AM End: 5/7/2024 10:52:30 AM

CU % Limit: 

807 Interactive operations 3106 Background operations P1 SKU 1920 CU (s)

Interactive operations for timerange

Workspace	Item kind	Item name	Operation	Start	End	Status	User	Duration (s)	Total CU (s)	Timepoint CU (s)	Throttling (s)	% of Base capacity	Billing type
Finance	Dataset	PHASING	Query	5/7/2024 10:50:22 ...	5/7/2024 10:50:23 ...	Success	Sa...	5	273.0240	27.3024	0	1.42%	Billable
Finance	Dataset	PHASING	Query	5/7/2024 10:51:20 ...	5/7/2024 10:51:21 ...	Success	Sa...	7	262.5120	26.2512	0	1.37%	Billable
Project Exec...	Dataset	B12	Query	5/7/2024 10:51:46 ...	5/7/2024 10:51:47 ...	Success	Ric...	15	245.4880	24.5488	0	1.28%	Billable
Finance	Dataset	PHASING	Query	5/7/2024 10:51:00 ...	5/7/2024 10:51:01 ...	Success	Sa...	3	224.0160	22.4016	0	1.17%	Billable
Project Exec...	Dataset	B12	Query	5/7/2024 10:47:48 ...	5/7/2024 10:47:49 ...	Success	Ric...	6	221.0400	22.1040	0	1.15%	Billable
Finance	Dataset	PHASING	Query	5/7/2024 10:50:54 ...	5/7/2024 10:50:56 ...	Success	Sa...	4	220.7520	22.0752	0	1.15%	Billable
Finance	Dataset	PHASING	Query	5/7/2024 10:50:56 ...	5/7/2024 10:50:57 ...	Success	Sa...	3	219.5040	21.9504	0	1.14%	Billable
Project Exec...	Dataset	B12	Query	5/7/2024 10:47:41 ...	5/7/2024 10:47:42 ...	Success	Ric...	13	213.0400	21.3040	0	1.11%	Billable
Finance	Dataset	PHASING	Query	5/7/2024 10:51:04 ...	5/7/2024 10:51:06 ...	Success	Sa...	5	195.0240	19.5024	0	1.02%	Billable
Project Exec...	Dataset	B12	Query	5/7/2024 10:47:26 ...	5/7/2024 10:47:27 ...	Success	Ric...	7	194.4960	19.4496	0	1.01%	Billable
Total								192	8,854.2080	885.4208	0	46.12%	

Background operations for timerange

Workspace	Item kind	Item name	Operation	Start	End	Status	User	Duration (s)	Total CU (s)	Timepoint CU (s)	Throttling (s)	% of Base capacity	Billing type
Spare Parts	Dataset	GSP Dat...	Dataset On-D...	5/7/2024 8:29:52 AM	5/7/2024 9:17:06 AM	Failure	Ra...	2,834	116,276.7520	40.3739	0	2.10%	Billable
Spare Parts	Dataset	GSP Dat...	Dataset Sched...	5/7/2024 5:01:13 AM	5/7/2024 5:34:36 AM	Success	Jel...	2,003	102,218.2560	35.4925	0	1.85%	Billable
Spare Parts	Dataset	GSP Dat...	Dataset Sched...	5/7/2024 3:30:12 AM	5/7/2024 3:56:09 AM	Success	Jel...	1,556	93,702.4960	32.5356	0	1.69%	Billable
Spare Parts...	Dataset	GSP Dat...	Dataset Sched...	5/7/2024 5:01:08 AM	5/7/2024 5:35:34 AM	Success	Jel...	2,066	91,852.7520	31.8933	0	1.66%	Billable
Finance	Dataset	DEVIATI...	Dataset Sched...	5/7/2024 6:31:35 AM	5/7/2024 7:21:28 AM	Success	Ba...	2,992	87,877.5040	30.5130	0	1.59%	Billable
Finance	Dataset	DEVIATI...	Dataset Sched...	5/6/2024 2:31:06 PM	5/6/2024 3:17:17 PM	Success	Ba...	2,770	80,500.0000	27.9514	0	1.46%	Billable
Finance	Dataset	PHASING	Dataset Sched...	5/7/2024 6:03:07 AM	5/7/2024 6:51:04 AM	Success	Ba...	2,877	77,010.7520	26.7398	0	1.39%	Billable
Finance	Dataset	DEVIATI...	Dataset Sched...	5/6/2024 10:31:19 AM	5/6/2024 11:13:22 ...	Success	Ba...	2,523	74,655.0080	25.9219	0	1.35%	Billable
Finance	Dataset	DEVIATI...	Dataset Sched...	5/6/2024 12:31:21 PM	5/6/2024 1:12:36 PM	Success	Ba...	2,475	74,482.7520	25.8621	0	1.35%	Billable
Finance	Dataset	PHASING	Dataset On-D...	5/6/2024 11:03:40 AM	5/6/2024 11:50:19 ...	Success	Ru...	2,798	73,128.7520	25.3919	0	1.32%	Billable
Total								117,663	3,569,820.4...	1,239.5210	0	64.56%	

Burndown table for timerange

Experience	Add %	Burndown %	Cumulative %	Minutes to burndown
AS	10.50%	0.00%	5.51%	0.03
CDSA	0.14%	0.00%	0.08%	0.00
ScreenshotEngine	0.03%	0.00%	0.02%	0.00
Total	10.67%	0.00%	5.61%	0.03

Oversages

Carryforward %: 0%, 5%, 10% | 10 mins: 0%, 2%, 4%, 6%, 10% | 60 mins: 0%, 2%, 4%, 6%, 10% | 24 hrs: 0%, 2%, 4%, 6%, 10%



@NickyvV NickyvV.com

Admin Monitoring (Preview)

Out-of-the box insights for Fabric admins for effective governance

The screenshot shows the Power BI Admin monitoring interface. On the left is a navigation sidebar with icons for Home, Create, Browse, OneLake data hub, Apps, Metrics, Monitoring hub, Deployment pipelines, Learn, Workspaces, Admin monitoring, and Power BI. The main area is titled "Admin monitoring" and shows a list of items:

Name	Type	Owner	Refreshed
Feature Usage and Adoption	Report	Admin monitoring	3/21/24, 10:26:15
Feature Usage and Adoption	Semantic model	Admin Monitoring	3/21/24, 10:26:15
Purview Hub	Report	Admin monitoring	2/6/24, 6:16:15 PM
Purview Hub	Semantic model	Admin Monitoring	2/6/24, 6:16:15 PM

Admin Monitoring (Preview)

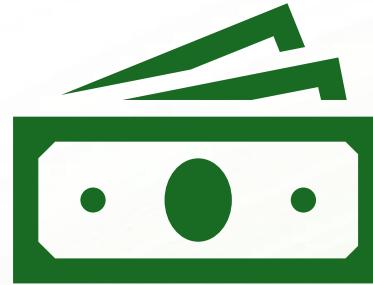
What's Available Now?

- **Feature usage & adoption report** - Target governance & compliance:
 - ✓ Top-down 28-day snapshot view
 - ✓ Fabric adoption trends
- **Purview hub report** - Track endorsement & sensitivity labels in Fabric
 - ✓ Drive adoption for information protection & endorsement certifications
- **Semantic model** - Optimized for reuse and flexibility
 - ✓ Metadata Dimensions
 - ✓ Fact tables
 - ✓ Ability to bring in additional data

What's next?

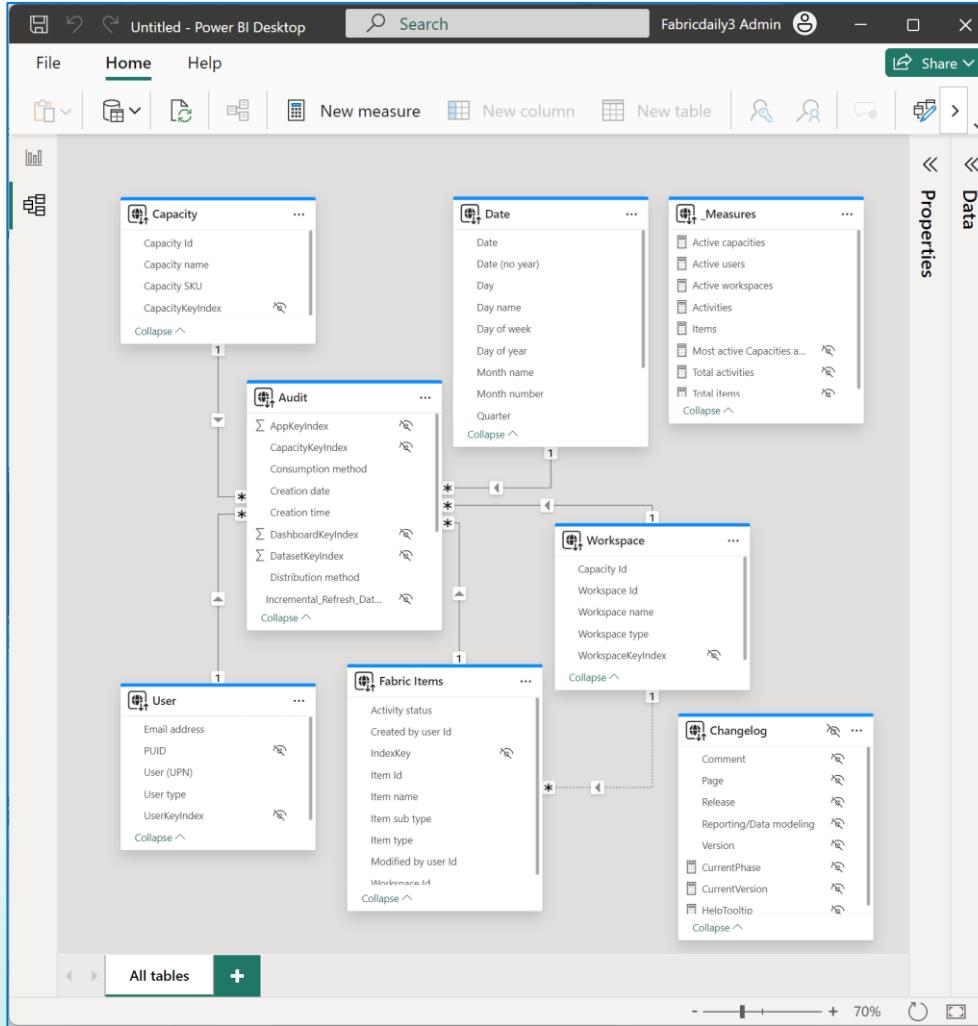
- More Insights
 - ✓ Content sharing insights (private preview soon)
 - ✓ Tenant-level report usage insights
 - ✓ Who has access to what
 - ✓ Item inventory report – size, utilization, job/refresh metrics and data lineage
- Increased Retention
- Capacity metrics in Admin monitoring

Admin Monitoring



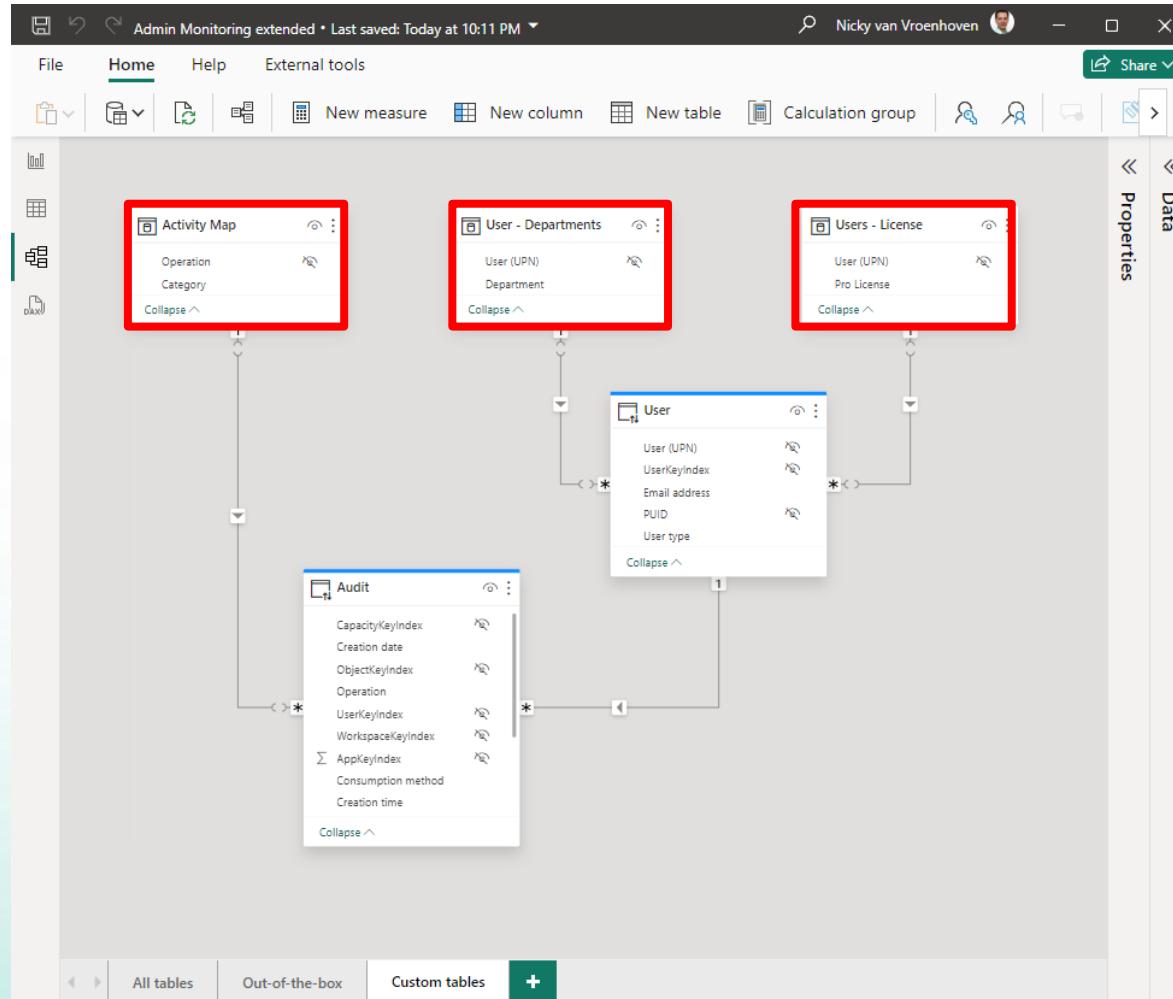
Manage licenses and associated costs

Default semantic model



Data model is reusable
and extendable for
custom reporting

Custom semantic model



Custom tables:

- Activity Map
- Departments
- Licenses

Admin Monitoring | Activity Analysis

10

Days retention

Activity Analysis

[Capacities](#)[Workspaces](#)[Department](#)[Licensing](#)

Capacities

3

Workspaces

229

Activities

771

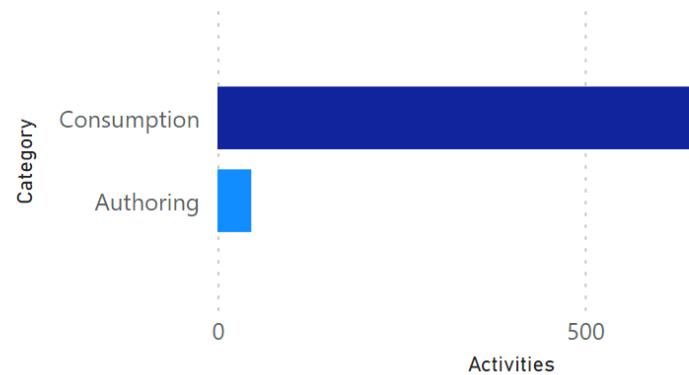
Items

268

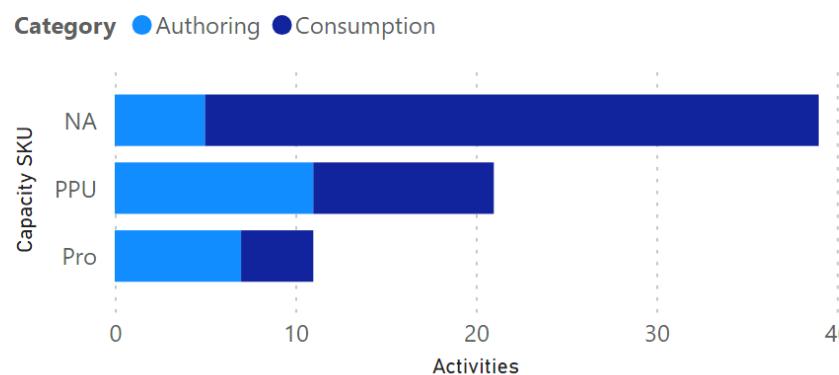
Activity Category

Authoring Consumption

Activities by Category

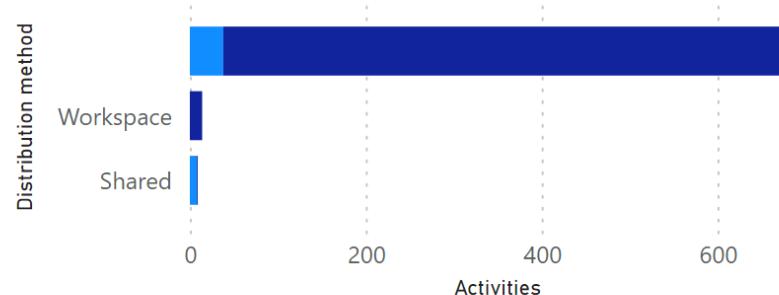


Activities by SKU



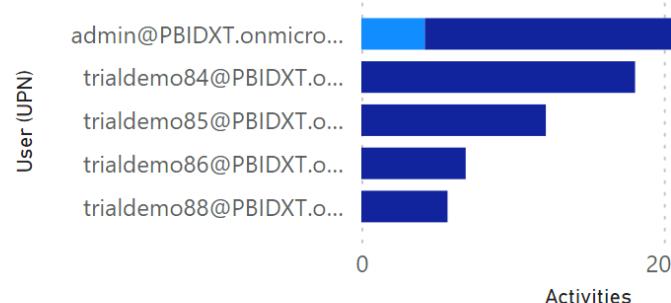
Activities by Distribution method

Category Authoring Consumption



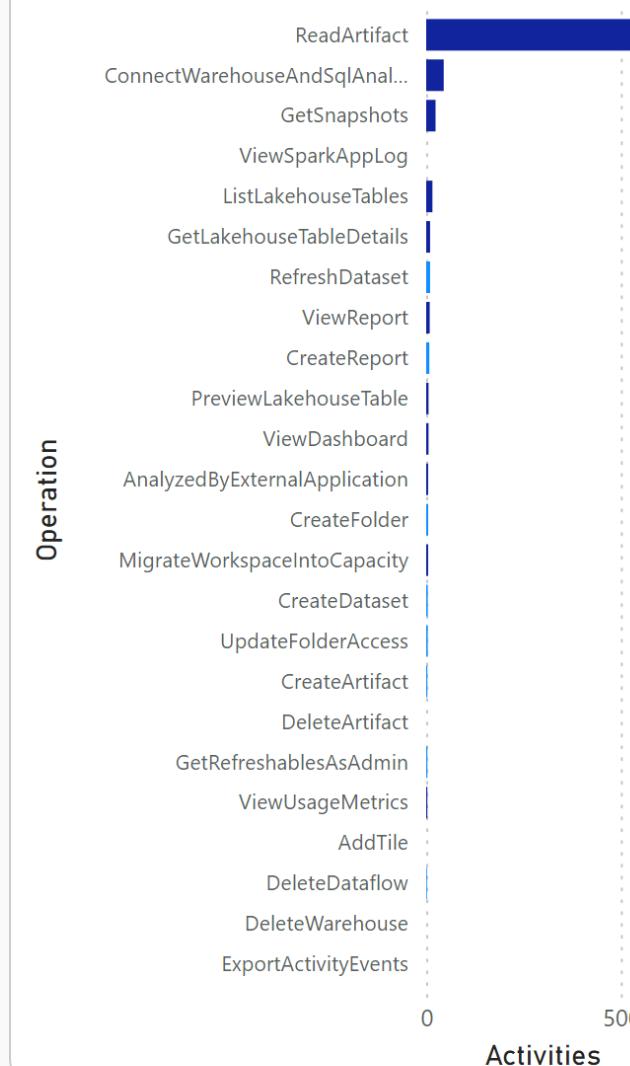
Activities by User

Category Authoring Consumption



Activities by Operation

Category Authoring Consumption



Admin Monitoring | Capacities

Activity Analysis Capacities Workspaces Department Licensing

Capacities

3

Workspaces

229

Items

268

Activities

771

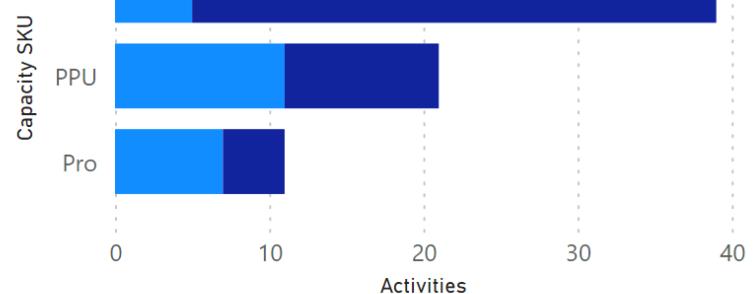
Activity status

--
Active
Inactive

Capacity SKU	Workspaces	Active WS (%)	Inactive WS (%)	Empty WS (%)
Pro	137	4%	45%	51%
PPU	18	6%	56%	39%
NA	1	0%	0%	100%
Total	229	17%	45%	38%

Activities by SKU

Category ● Authoring ● Consumption

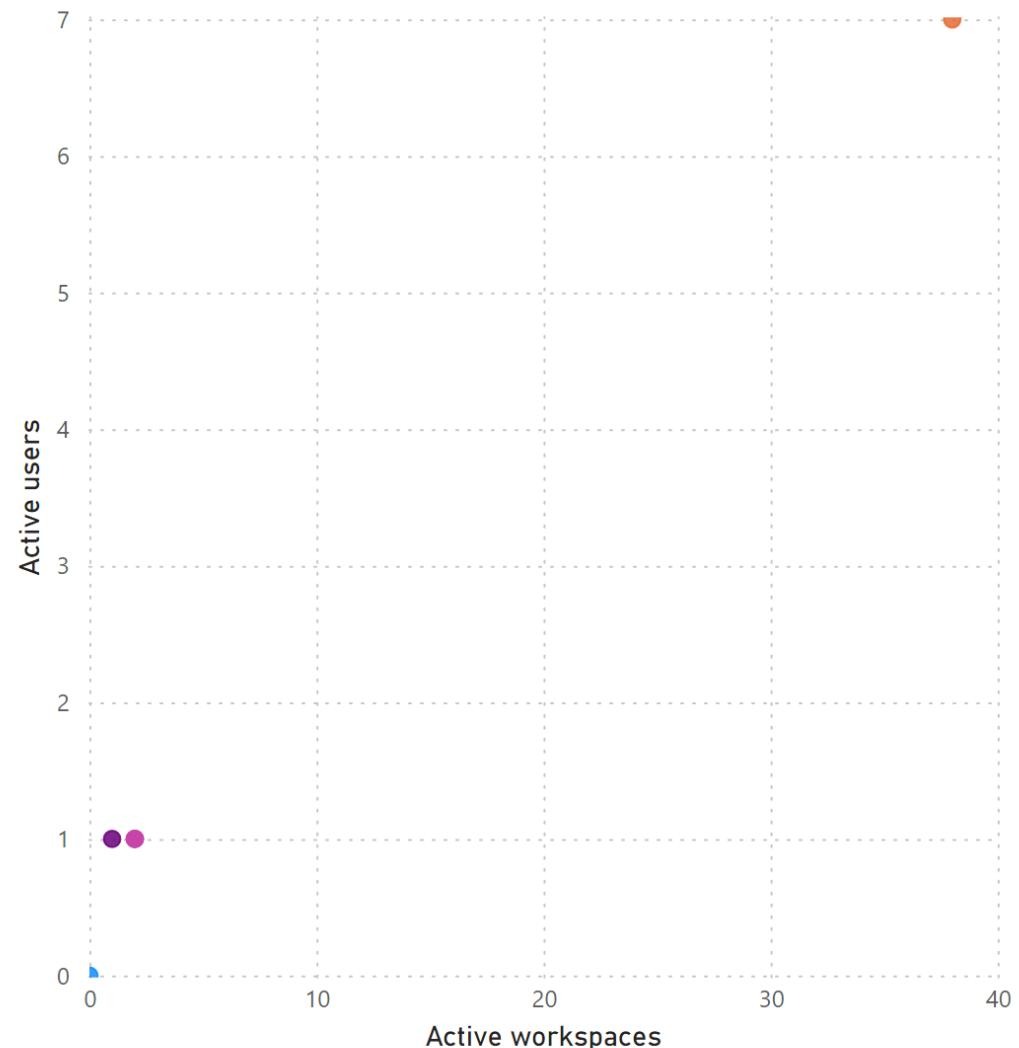


Last Active Date # Workspaces

3/5/2024 12:00:00 AM	5
3/3/2024 12:00:00 AM	15
3/2/2024 12:00:00 AM	14
3/1/2024 12:00:00 AM	3
2/29/2024 12:00:00 AM	1
2/26/2024 12:00:00 AM	2
	189
Total	229

Active workspaces and Active users by Capacity SKU and Capacity SKU

Capacity SKU ● F2 ● FT1 ● NA ● PPU ● Pro



Admin Monitoring | Workspaces

Activity
Analysis

Capacities

Workspaces

Department

Licensing



Workspaces

5

Items

29

Users

61

Activities

111

Workspace type

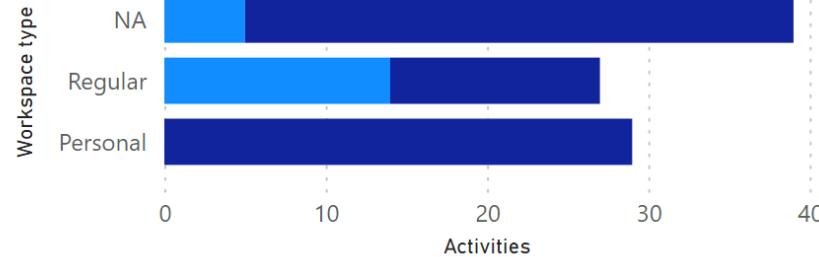
NA

Personal

Regular

Activities by Workspace type

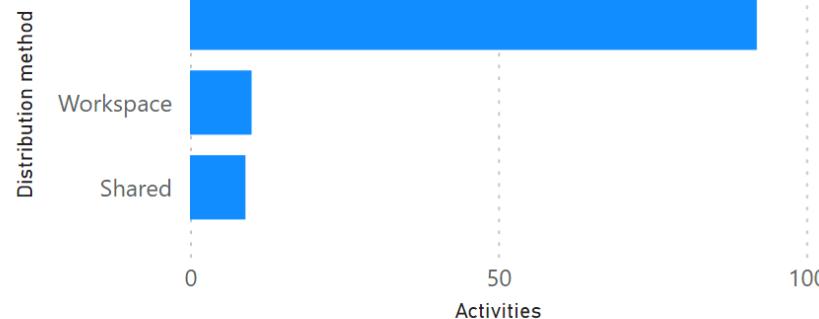
Category ● Authoring ● Consumption



Last Active Date Workspace name

Last Active Date	Workspace name	Workspace type	Active users	Inactive users
3/5/2024 12:00:00 AM	15919	Regular	1	60
3/5/2024 12:00:00 AM	NA	NA	2	58
3/5/2024 12:00:00 AM	PersonalWorkspace 1003200237B482DE	Personal	1	59
3/5/2024 12:00:00 AM	test_wk3_5	Regular	1	60
3/5/2024 12:00:00 AM	testg	Regular	1	60

Activities by Distribution method



Admin Monitoring | Department

Activity Analysis

Capacities

Workspaces

Department

Licensing

Departments

7

Workspaces

229

Items

268

Activities

696

Authoring

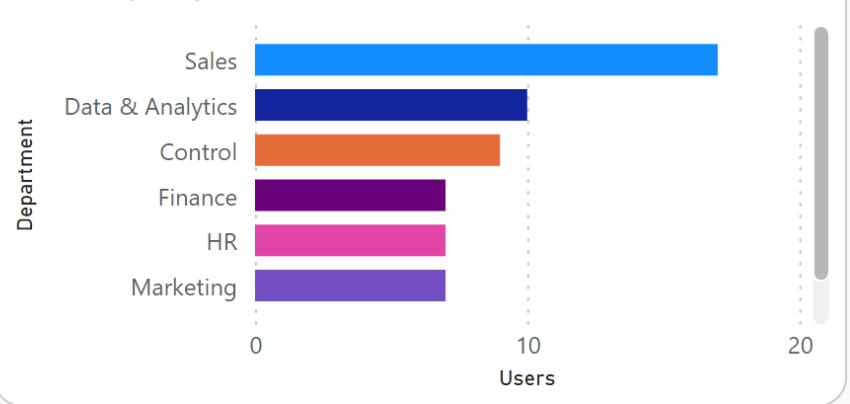
Consumption

Date

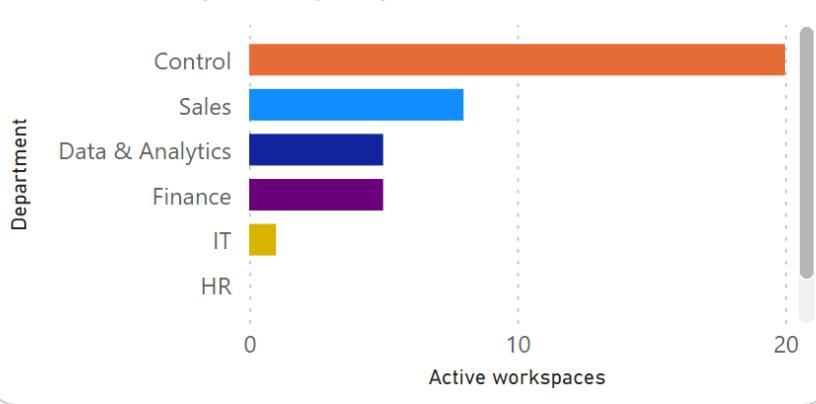
2/26/2024

3/21/2024

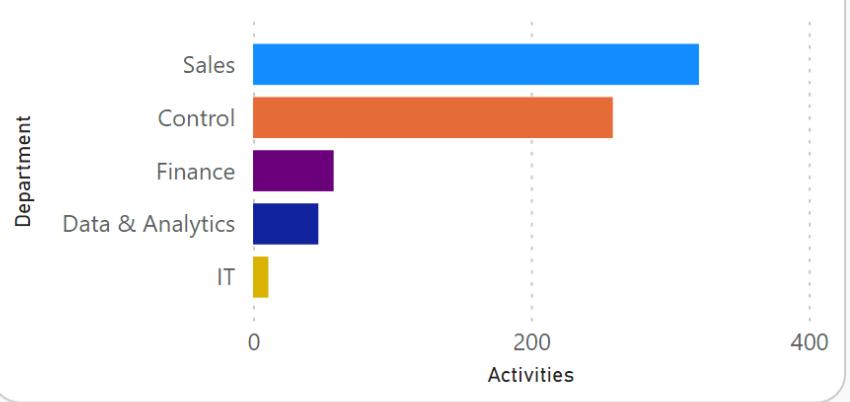
Users by Department



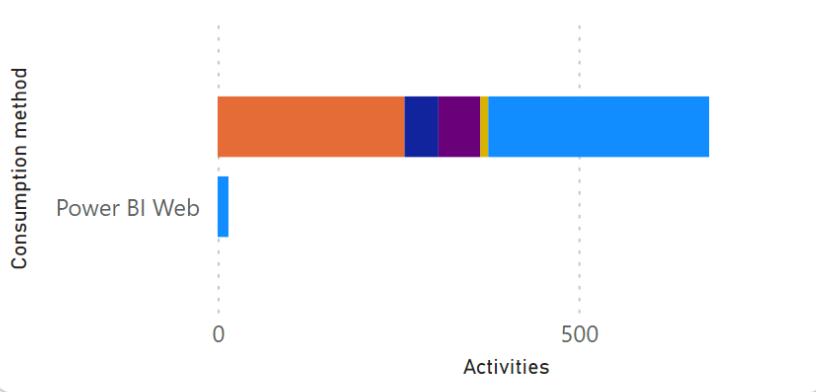
Active Workspaces by Department



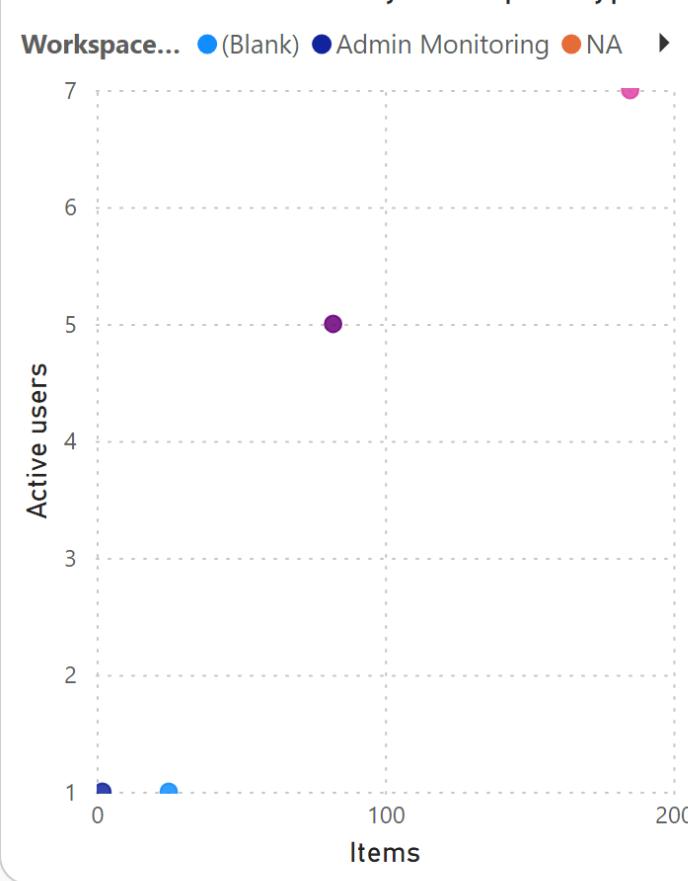
Activities by Department



Activities by Consumption method



Items and Active users by Workspace type



Workspaces

229

Departments

7

Activities

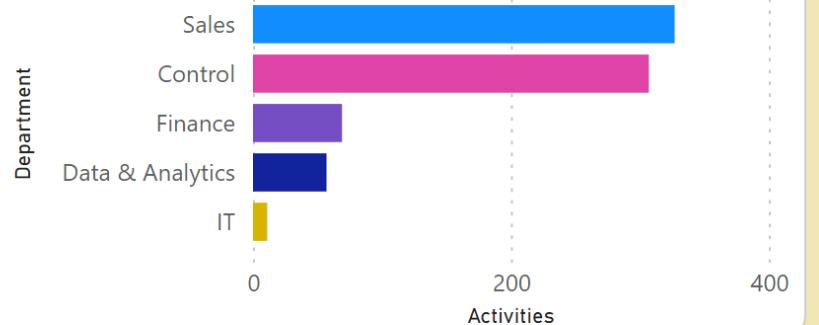
771

Items

268

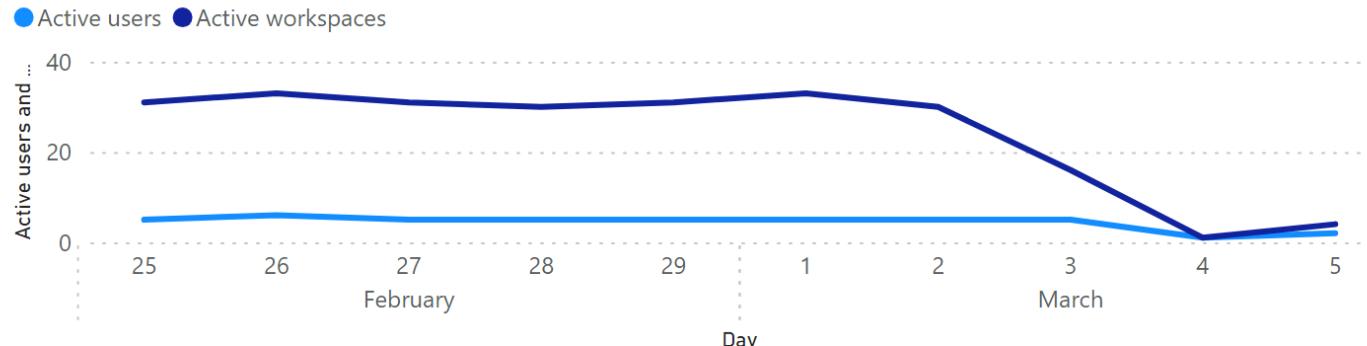
Active users

Activities by Department



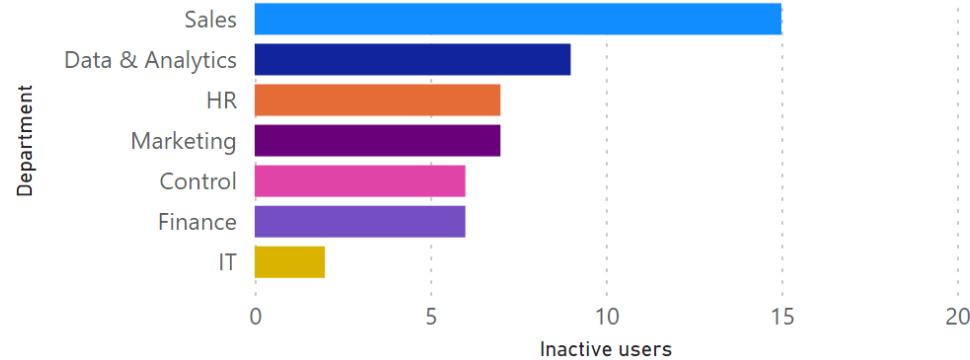
User type	Active users	Activities
Home	7	719
NA	0	52
Guest	0	
Total	7	771

Active users by Day



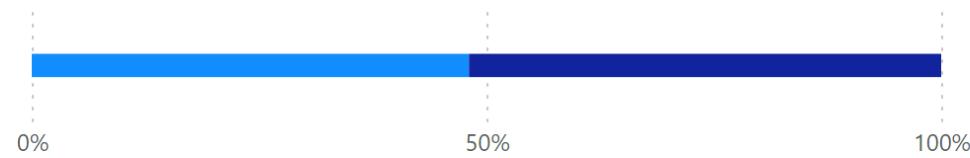
Inactive users

Inactive Users by Department



Inactive users

Pro License • Free • Pro



Department UPN Pro License

Department	UPN	Pro License
Control	24@microsoft.com	Pro
Control	36@microsoft.com	Free
Control	45@microsoft.com	Free
Control	59@microsoft.com	Free
Control	72@microsoft.com	Pro
Control	9@microsoft.com	Free

Monitoring & automation - manual

REST API's

- Enhanced visibility into user access and permission levels
- Retrieve user and permission information for most Fabric assets

Filter by title
Overview
> Admin
> Apps
> Available Features
> Capacities
> Dashboards
> Dataflow Storage Accounts
> Dataflows
> Datasets
> Embed Token
> Gateways
> GoalNotes (Preview)
> GoalValues (Preview)
> Goals (Preview)
> GoalsStatusRules (Preview)
> Groups
> Imports
> Pipelines
> Profiles
> Push Datasets
> Reports
> Scorecards (Preview)
> Template Apps
> Users

REST Operation groups

This table lists the Power BI REST API operation groups.

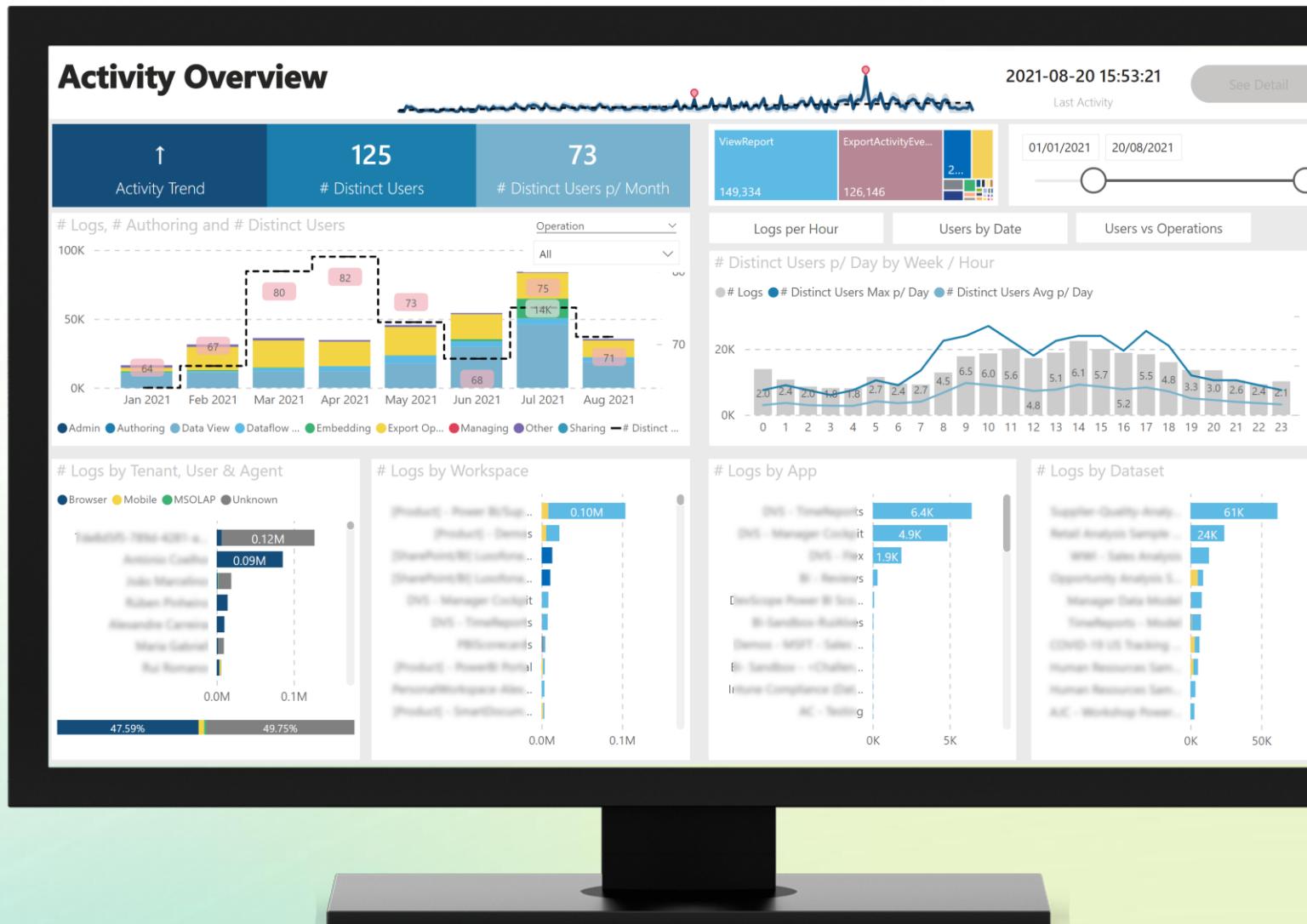
ⓘ Note

To manage Power BI Embedded capacities, use the Power BI Embedded Azure

Operation group	Description
Admin	Operations for working with administrative t
Apps	Operations for working with Apps.
Available Features	Operations that return available features.
Capacities	Operations for working with capacities.
Dashboards	Operations for working with dashboards.
Dataflow Storage Accounts	Operations for working with dataflow storag
Dataflows	Operations for working with dataflows.
Datasets	Operations for working with datasets.
Embed Token	Operations for working with embed tokens.
Gateways	Operations for working with gateways.
Groups	Operations for working with groups.
Imports	Operations for working with imports.
Pipelines	Operations for working with deployment pip
Push Datasets	Operations for working with push datasets.

Manual monitoring - Scanner APIs

- Read-only APIs used to scan full metadata including item identity, owner, workspace, sensitivity label, endorsement, lineage, etc.
- Robust enterprise capabilities like authentication using **service principal** and **incremental scans**
- Main use cases:
 - ✓ **Inventory Management:** Discover and catalog workspaces and items
 - ✓ **Security and Compliance Auditing:** Scan and analyze access permissions, sharing settings, and compliance status
 - ✓ **External Integration:** Used for 1st party and 3rd party governance tool integration



Manual monitoring - GetActivityEvents API

Designed for Fabric Admins to track user activities for governance and management purposes.

Main use cases are:

- ✓ Audit and compliance tracking
- ✓ Security Monitoring
- ✓ Usage and Adoption Insights
- ✓ Optimization and Cost Management

Retention is 30 days:

so start collecting your data!

The screenshot shows a detailed view of the Microsoft REST API documentation for the GetActivityEvents API. It includes a sidebar with a navigation tree, a main content area with examples, and a code sample section.

Navigation Tree:

- Filter by title
- Overview
- Admin
 - Overview
 - Add Power BI Encryption Key
 - Apps GetAppUsersAsAdmin
 - Apps GetAppsAsAdmin
 - Capacities AssignWorkspacesToCapacity
 - Capacities GetCapacityUsersAsAdmin
 - Capacities
 - UnassignWorkspacesFromCapacity
 - Dashboards
 - GetDashboardSubscriptionsAsAdmin
 - Dashboards
 - GetDashboardUsersAsAdmin
 - Dashboards GetDashboardsAsAdmin
 - Dashboards
 - GetDashboardsInGroupAsAdmin
 - Dashboards GetTilesAsAdmin
 - Dataflows ExportDataflowAsAdmin
 - Dataflows
 - GetDataflowDatasourcesAsAdmin
 - Dataflows GetDataflowUsersAsAdmin
 - Dataflows GetDataflowsAsAdmin
 - Dataflows
 - GetDataflowsInGroupAsAdmin
 - Dataflows
 - GetUpstreamDataflowsInGroupAsAdmin
 - Datasets
 - GetDatasetToDataflowsLinksInGroupAsAdmin
 - Datasets GetDatasetUsersAsAdmin
 - Datasets GetDatasetsAsAdmin

Content Examples:

- Get audit activity events within a time window and for a specific activity type and user ID example
- Get audit activity events within a time window and for a specific activity type example
- Get audit activity events within a time window and for a specific user ID example
- Get audit activity events within a time window example
- Get the next set of audit activity events by sending the continuation token to the API example

Sample Request:

```
HTTP
GET https://api.powerbi.com/v1.0/myorg/admin/activityevents?startDateTime='2019-08-13T07:55:00.000Z'&endDateTime='2019-08-13T08:55:00.000Z'&$filter=Activity eq 'viewreport' and UserId eq 'john@contoso.com'
```

Sample Response:

```
HTTP/1.1 200 OK
Content-Type: application/json; charset=utf-8
Content-Length: 1234567890

{
  "activityEventEntities": [
    {
      "Id": "8fb974dc-739e-41e4-a219-b5801e28095e",
      "RecordType": 20,
      "CreationTime": "2023-05-23T08:06:47",
      "Operation": "GetSnapshots",
      "OrganizationId": "98c45f19-7cac-4002-8702-97d943a5ccb4",
      "UserId": "abc@contoso.onmicrosoft.com",
      "UserKey": "10033FFF8929F27A",
      "Workload": "PowerBI",
      "ClientIP": "185.175.34.186",
      "UserAgent": "Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/102.0.4929.74 Safari/537.36",
      "Activity": "GetSnapshots",
      "IsSuccess": true,
      "RequestId": "ee4ab5af1-9aa3-34fe-a163-7b188e865ef1",
      "ActivityId": "cc1db5c9-ca04-484e-a6f2-f21de20bc000"
    }
  ]
}
```

Call To Action

- Go through, export, and document your Tenant settings
- Get started with monitoring your environment
 - Extract your Power BI Activity log
 - Setup Gateway monitoring
 - Check your Capacity Metrics App
 - Check the Admin Monitoring workspace

Other interesting sessions



- Lessons learned: Governance and Adoption for Power BI
 - Paulien van Eijk – Thursday (today) 17:00



- Uncovering Secrets and Mysteries in your Power BI Tenant
 - Benni de Jagere - Friday 14:15

Resources

- [Monitoring Your Tenant Settings](#) by Romain Casteres
- [Monitoring solutions](#) on Github by Rui Romano
- Microsoft Learn:
 - [Fabric Admin doc's](#)
 - [Monitoring Workspace](#)
 - [Implementation scenario's](#)
 - [Adoption roadmap](#)

Thank you!



Unit Lead Fabric & Power BI



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Data Platform MVP