

# Power BI get started documentation

Power BI documentation provides expert information and answers to get you started using Power BI.

## Learn the basics

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[Power BI videos](#)

# What is Power BI

06/30/2025

Power BI is Microsoft's business analytics platform that helps you turn data into actionable insights. Whether you're a business user, report creator, or developer, Power BI offers integrated tools and services to connect, visualize, and share data across your organization.

In this article, you'll learn:

- What Power BI is and how it fits with Microsoft Fabric
- The key differences between Power BI Desktop and Power BI service
- How to get started with Power BI step-by-step
- Which Power BI component to use for your specific needs

Power BI is a core component of Microsoft Fabric, providing analytics and visualization capabilities. In Fabric, Power BI shares features like data integration, dataflows, and security with other Fabric experiences. However, some features - such as Power BI reports, dashboards, and the Power BI service - are unique to Power BI.

## Power BI and Microsoft Fabric

[Microsoft Fabric](#) is an all-in-one analytics platform that includes Power BI as one of its core workloads. If you're a Power BI user, here's what you need to know.

**Key points:**

- No migration needed - your Power BI content and workspaces remain unchanged.
- Use your existing Power BI or Microsoft 365 account to sign in.
- Fabric adds new capabilities, but Power BI's interface and experience remain familiar.

The following table summarizes the key features of Power BI and how they compare to Microsoft Fabric:

 Expand table

Feature	Description	Fabric	Power BI
OneLake Integration	Unified data lake for all workloads	✓	✓
Direct Lake Mode	Query data in OneLake without import/caching	✓	✓
Notebooks and Dataflows Gen2	Advanced data prep, shared across Fabric	✓	✓

Feature	Description	Fabric	Power BI
Data Activator	Real-time alerting and automation	✓	✓
Security and Governance	Shared via Microsoft Purview	✓	✓
Copilot	AI-powered assistant for insights and report creation	✓	✓
Power BI Desktop	Windows app for report development		✓
Power BI Service	Cloud platform for publishing, sharing, and collaboration		✓
Paginated Reports	Pixel-perfect, printable reports		✓
Power BI Visuals Marketplace	Custom visuals and integrations		✓
Q&A and Natural Language	AI-powered data querying		✓
Power BI Goals	KPI tracking and scorecards		✓

## Power BI: Step-by-step

**Quick start:** [Sign up for Power BI](#) | [Download Power BI Desktop](#) | [Access Power BI service](#)

Follow these steps to get started with Power BI:

- 1. Get started:** Sign up and set up your workspace. Download Power BI Desktop or use the Power BI service in your browser.
- 2. Connect and prepare data:** Connect to sources like Excel, SQL, or cloud services. Clean and shape your data.
- 3. Model and combine data:** Create relationships, add calculations, and combine sources for a complete view.
- 4. Build reports and dashboards:** Use drag-and-drop tools to create interactive visuals.
- 5. Explore and analyze:** Filter, sort, and drill down to find insights. Use built-in analytics.
- 6. Share and collaborate:** Publish to the Power BI service, share with your team, and collaborate in real time.
- 7. Administer and secure:** Manage access, set up security roles, and monitor usage.

## Power BI Desktop versus the Power BI service

Power BI has two main components: **Power BI Desktop** and the **Power BI service**. Desktop is best for data modeling and report creation, while the service is ideal for sharing and collaboration. Both can connect to data sources and create visualizations. There's also a **Power BI Mobile app** for viewing reports on the go.

[Expand table](#)

Need	Use this	Why
Create reports	<a href="#">Power BI Desktop</a>	Full data modeling and design tools
Share with team	<a href="#">Power BI service</a>	Collaboration and sharing features
View on mobile	<a href="#">Power BI Mobile apps</a>	Optimized for phones and tablets

## Core features of Power BI Desktop and the Power BI service

Power BI Desktop and the Power BI service each have unique features that cater to different aspects of data analysis and reporting.

### Power BI Desktop:

- Connect to 100+ data sources (databases, cloud, files, web)
- Power Query Editor for data transformation
- Data modeling with DAX, calculated columns, and relationships
- 30+ built-in and custom visuals
- Advanced features: performance analyzer, external tools, composite models
- [Get started with Power BI Desktop](#)

### Power BI Service:

- Workspaces for team collaboration
- Apps for distributing dashboards and reports
- Dataflows for reusable data prep
- Datasets shared across reports
- Real-time dashboards and streaming data
- Schedule refresh, email subscriptions, alerts, Q&A, embedding, export
- Security: RLS, sensitivity labels, usage metrics, audit logs
- [Learn more about the Power BI service](#)

## Specialized Power BI capabilities

The Power BI ecosystem includes specialized tools and features to enhance reporting and analytics.

- **Paginated reports:** For structured, printable reports (like invoices). Create with Power BI Report Builder. [Learn more about paginated reports.](#)
- **On-premises reporting:** Power BI Report Server lets you keep reports on-premises, with the option to move to the cloud later. [Learn more about Power BI Report Server.](#)

## Related content

- [Tutorial: Get started with the Power BI service](#)
- [Quickstart: Connect to data in Power BI Desktop](#)
- [What is Power BI Desktop?](#)
- [Create a report in the Power BI service](#)
- [Basic concepts for report designers](#)
- [What is Microsoft Fabric?](#)
- [Compare Power BI Desktop and Power BI service](#)
- [Tutorial: Navigate the Power BI service](#)

ⓘ **Note:** The author created this article with assistance from AI. [Learn more](#)

# Get Power BI Desktop



With Power BI Desktop, you can build advanced queries, models, and reports that visualize data. You can also build data models, create reports, and share your work by publishing to the Power BI service. Power BI Desktop is a free download.

To get Power BI Desktop, you can use one of two approaches.

- [Install as an app from the Microsoft Store.](#)
- [Download directly as an executable and install on your computer.](#)


Either of the two approaches gets the latest version of Power BI Desktop onto your computer. However, there are some differences worth noting, as described in the following sections.

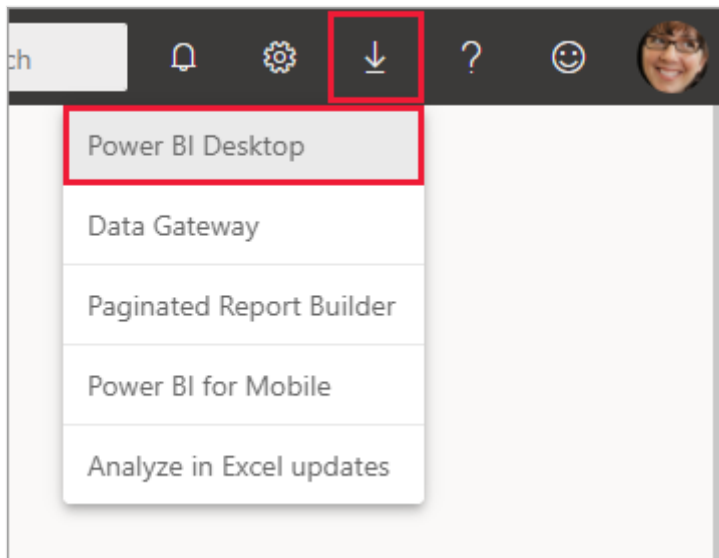
## Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the latest version of Power BI Desktop is supported. You'll be asked to upgrade the application to the latest version if you contact Support for Power BI Desktop. You can get the latest version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download and install on your computer](#) .

## Install as an app from the Microsoft Store

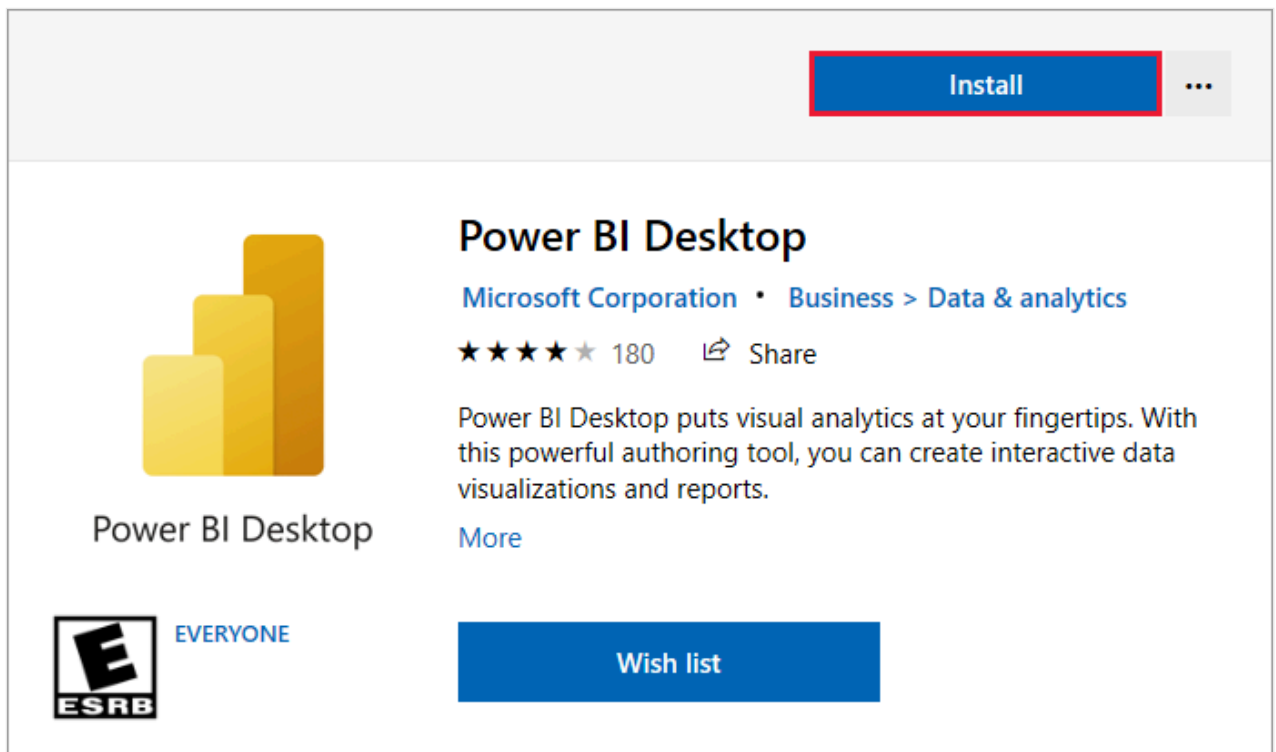
There are a few ways to access the most recent version of Power BI Desktop from the Microsoft Store.

1. Use one of the following options to open the **Power BI Desktop** page of the Microsoft Store:
  - Open a browser and go directly to the [Power BI Desktop page](#)  of the Microsoft Store.
  - From the [Power BI service](#), in the upper right corner, select the **Download** icon and then choose **Power BI Desktop**.



- Go to the [Power BI Desktop product page](#), and then select **Download Free**.

2. After you've landed on the **Power BI Desktop** page of the Microsoft Store, select **Install**.



There are a few advantages to getting Power BI Desktop from the Microsoft Store:

- **Automatic updates:** Windows downloads the latest version automatically in the background as soon as it's available, so your version is always up to date.
- **Smaller downloads:** Microsoft Store ensures only components that changed in each update are downloaded to your computer, resulting in smaller downloads for each update.
- **Admin privilege isn't required:** When you download the package directly and install it, you must be an administrator for the installation to complete successfully. If you get Power BI Desktop from the Microsoft Store, admin privilege isn't required.

- **IT roll-out enabled:** Through the Microsoft Store for Business, you can more easily deploy, or *roll out*, Power BI Desktop to everyone in your organization.
- **Language detection:** The Microsoft Store version includes all supported languages, and checks the language used on your computer each time it's launched. This language support also affects the localization of models created in Power BI Desktop. For example, built-in date hierarchies match the language that Power BI Desktop uses when the *.pbix* file is created.

The following considerations and limitations apply when you install Power BI Desktop from the Microsoft Store:

- If you use the SAP connector, you might need to move your SAP driver files to the *Windows\System32* folder.
- Installing Power BI Desktop from the Microsoft Store doesn't copy user settings from the *.exe* version. You might have to reconnect to your recent data sources and reenter your credentials.

#### ⓘ Note

The Power BI Report Server version of Power BI Desktop is a separate and different installation from the versions discussed in this article. For information about the Report Server version of Power BI Desktop, see [Create a Power BI report for Power BI Report Server](#).

## Download Power BI Desktop directly

To download the Power BI Desktop executable from the Download Center, select **Download** from the [Download Center page](#). Then specify the 32-bit or 64-bit installation file to download.

The screenshot shows the Microsoft Download Center interface. At the top, there is a navigation bar with the Microsoft logo and links for 'Download Center', 'Windows', 'Office', 'Web browsers', and 'More'. A search bar and a shopping cart icon are also visible. The main content area is titled 'Choose the download you want'. It features a table with two columns: 'File Name' and 'Size'. The first row is selected with a checkmark in the checkbox: 'PBIDesktopSetup\_x64.exe' with a size of '350.6 MB'. The second row is unselected: 'PBIDesktopSetup.exe' with a size of '320.8 MB'. To the right of the table is a 'Download Summary' box showing 'KBMBGB' and a list containing '1. PBIDesktopSetup\_x64.exe'. Below the summary, it states 'Total Size: 350.6 MB'. A blue 'Next' button is located at the bottom right of the interface.

<input type="checkbox"/> File Name	Size
<input checked="" type="checkbox"/> PBIDesktopSetup_x64.exe	350.6 MB
<input type="checkbox"/> PBIDesktopSetup.exe	320.8 MB

Download Summary:  
KBMBGB

1. PBIDesktopSetup\_x64.exe

Total Size: 350.6 MB

Next

### **Important**

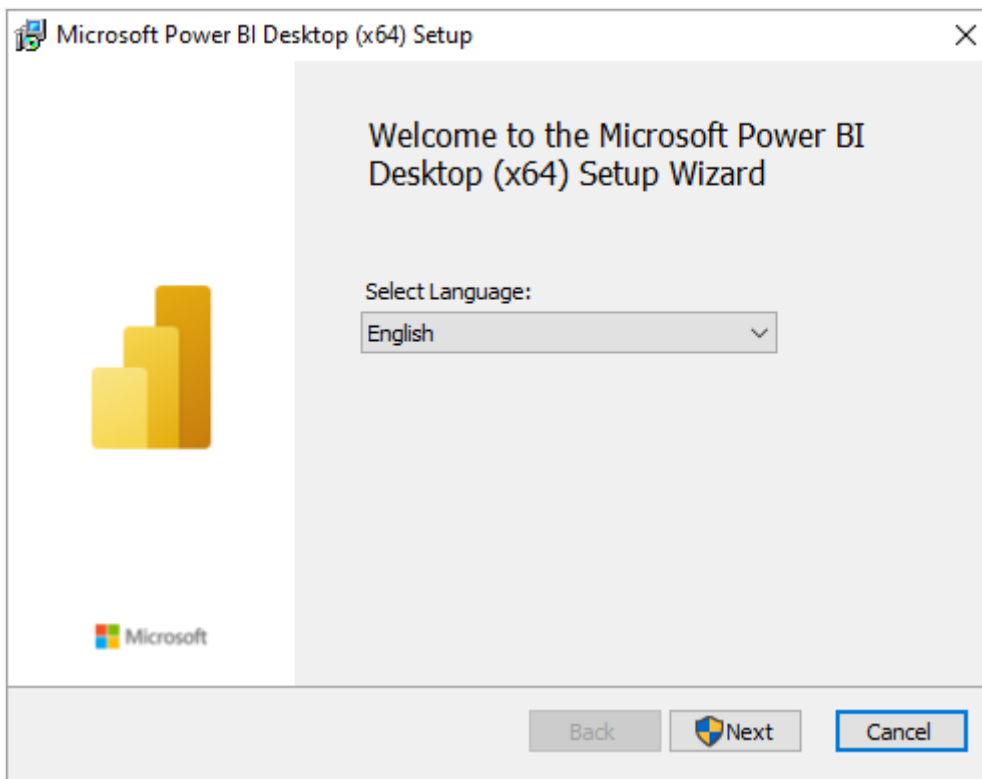
The 32-bit version of Power BI Desktop is no longer supported. Upgrade to the 64-bit version of Power BI Desktop to continue receiving updates and support.

## Install Power BI Desktop after download

You're prompted to run the installation file after you finish downloading it.

Power BI Desktop ships as a single .exe installation package that contains all supported languages, with separate .exe files for the 32-bit and 64-bit versions. The 32-bit version is no longer supported. You need the executable for installation. This approach makes distribution, updates, and installation easier and more convenient, especially for administrators. You can also use command-line parameters to customize the installation process, as described in [Using command-line options during installation](#).

After you launch the installation package, Power BI Desktop installs as an application and runs on your desktop.

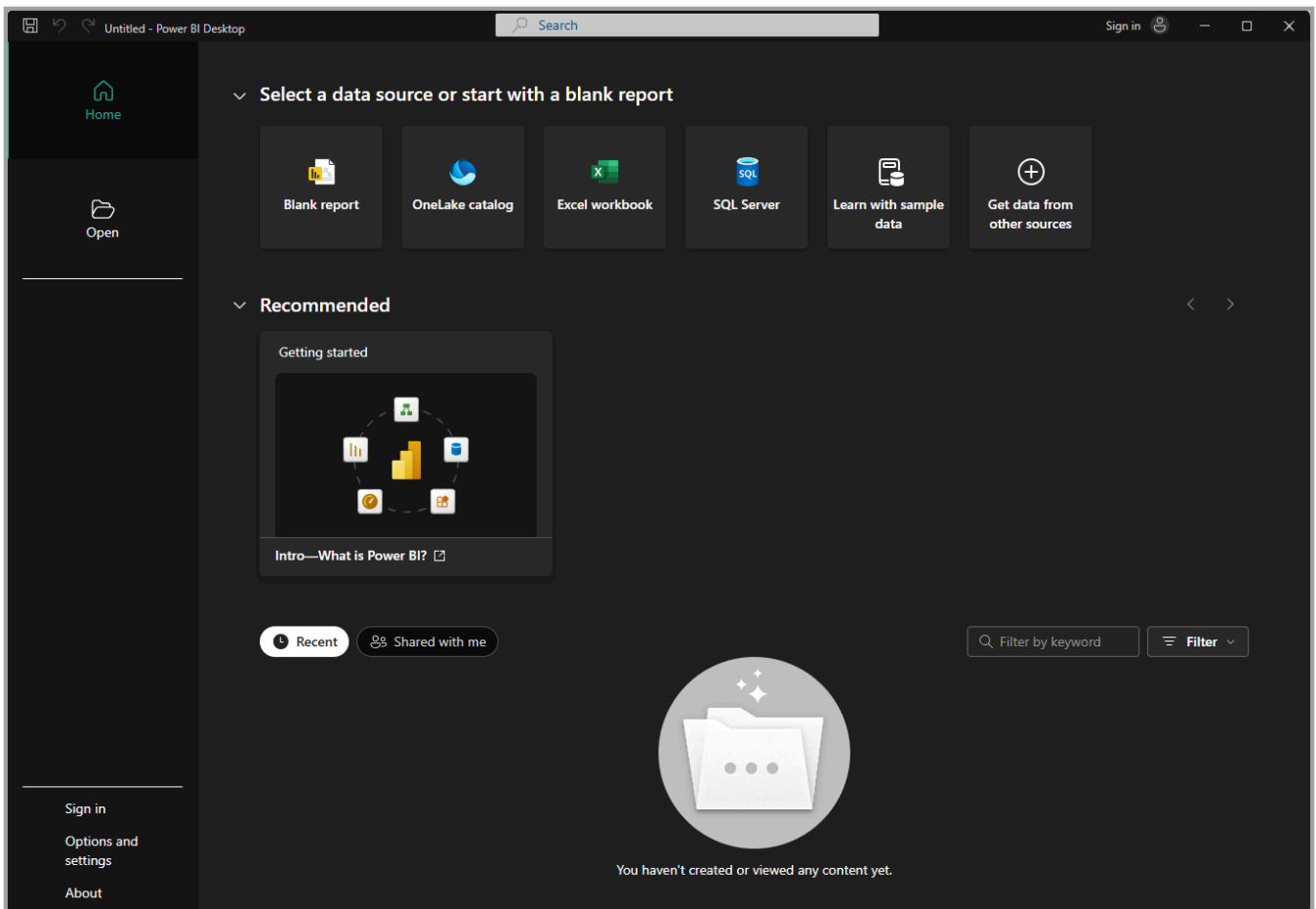


### ⓘ Note

Installing the deprecated *msi* version and the Microsoft Store version of Power BI Desktop on the same computer, sometimes referred to as a *side-by-side* installation, isn't supported. Manually uninstall Power BI Desktop before you download it from the Microsoft Store.

## Use Power BI Desktop

When you launch Power BI Desktop, a welcome screen appears.



Now you can begin creating data models or reports, and share them with others on the Power BI service. Check out the [Related content](#) section for links to guides to help you get started using Power BI Desktop.

## Minimum requirements

The following list provides the minimum requirements to run Power BI Desktop:

- Windows 10 or Windows Server 2016 or later. For Windows on ARM, the 2025-09 Cumulative Update is required ([KB5065789](#)) [↗](#).
- .NET 4.7.2 or later.
- Microsoft Edge browser (Internet Explorer is no longer supported)
- Memory (RAM): At least 2 GB available, 4 GB or more recommended.
- Display: At least 1440x900 or 1600x900 (16:9) required. Lower resolutions such as 1024x768 or 1280x800 aren't supported because some controls (such as closing the startup screens) display beyond those resolutions.
- Windows display settings: If you set your display to change the size of text, apps, and other items to more than 100%, you won't see some dialogs that you must interact with to continue using Power BI Desktop. If you encounter this issue, check your display settings in Windows by going to **Settings > System > Display**, and use the slider to return display settings to 100%.

- CPU: 1 gigahertz (GHz) 64-bit (x64) processor or better recommended.
- WebView2: If WebView2 wasn't automatically installed with Power BI Desktop or if it was uninstalled, [download and run the installer for WebView2](#).

### ⓘ Note

We recommend using a client version of Windows, such as Windows 10, instead of Windows Server. Power BI Desktop doesn't support Internet Explorer Enhanced Security Configuration because it will stop Power BI Desktop from signing in to the Power BI service.


## Considerations and limitations

Power BI Desktop doesn't support running with a system account because WebView2 doesn't support system accounts. Running Power BI Desktop using a system account may cause this error: "Microsoft Edge can't read and write to its data directory."

We want your experience with Power BI Desktop to be great. If you run into any issues with Power BI Desktop, this section contains solutions, or suggestions to address these issues.

## Use command-line options during installation

When you install Power BI Desktop, you can set properties and options with command-line switches. These settings are especially useful for administrators who manage or facilitate the installation of Power BI Desktop across organizations.

 Expand table

Command-line option	Behavior
<code>-q</code> , <code>-quiet</code> , <code>-s</code> , <code>-silent</code>	Silent install
<code>-passive</code>	Show the progress bar only during installation.
<code>-norestart</code>	Suppress the computer restart requirement.
<code>-forcerestart</code>	Restart the computer after installation without a prompt.
<code>-promptrestart</code>	Prompt the user if a computer restart is required (default).
<code>-l&lt;&gt;</code> , <code>-log&lt;&gt;</code>	Log the installation to a specific file, with the file specified in <>.

Command-line option	Behavior
<code>-uninstall</code>	Uninstall Power BI Desktop.
<code>-repair</code>	Repair the installation or install Power BI Desktop if it's not currently installed.
<code>-package</code> , <code>-update</code>	Install Power BI Desktop (default, as long as <code>-uninstall</code> or <code>-repair</code> aren't specified).

You can also use the following syntax parameters, which you specify with a `property = value` syntax:

[Expand table](#)

Parameter	Meaning
<code>ACCEPT_EULA</code>	Requires a value of <code>1</code> to automatically accept the End-User Licensing Agreement (EULA).
<code>ENABLEEXP</code>	A value of <code>1</code> enrolls in the customer experience program that captures information about usage of the product.
<code>INSTALLDESKTOPSHORTCUT</code>	A value of <code>1</code> adds a shortcut to the Windows desktop.
<code>INSTALLLOCATION</code>	The file path where you want Power BI Desktop installed.
<code>LANGUAGE</code>	The locale code, for example, <code>en-US</code> , <code>de-DE</code> , <code>pt-BR</code> to force the default language of the application. If you don't specify the language, Power BI Desktop uses the Windows OS language. You can change this setting in the <b>Options</b> dialog.
<code>DISABLE_UPDATE_NOTIFICATION</code>	A value of <code>1</code> disables update notifications.

For example, you can run Power BI Desktop with the following options and parameters to install without any user interface, use the German language:

```
PBIDesktopSetup_x64.exe -quiet LANGUAGE=de-DE ACCEPT_EULA=1
```

## Install Power BI Desktop on remote machines

If you're deploying Power BI Desktop to your users with a tool that requires a Windows installer file (.msi file), you can extract the .msi file from the Power BI Desktop installer .exe file. Use a third-party tool, such as WiX Toolset.

**Note**

As a third-party product, WiX Toolset options might change without notice. Check their documentation for the most up-to-date information.

1. On the computer where you downloaded the Power BI Desktop installer, install the latest version of the [WiX Toolset](#).
2. Open a command-line window as an administrator and navigate to the folder where you installed WiX Toolset.
3. Run the following command:

```
Dark.exe <path to Power BI Desktop installer> -x <output folder>
```

For example:

```
Dark.exe C:\PBIDesktop_x64.exe -x C:\output
```

The output folder contains a folder named *AttachedContainer*, which includes the *.msi* files.

Upgrading an install from an *.exe* to an *.msi\** that you've extracted from an *.exe* isn't supported. In order to make this upgrade, first you'll need to uninstall the older version of Power BI Desktop that you have.

## Power BI Desktop in a virtualized environment

Power BI Desktop is fully supported on [Azure Virtual Desktop](#) (formerly Windows Virtual Desktop) and [Windows 365](#).

Running Power BI Desktop as a virtualized application (for example, as a Citrix application) isn't supported.

## Issues with previous releases of Power BI Desktop

Some users might encounter an error message similar to the following message when they use an outdated version of Power BI Desktop: *We weren't able to restore the saved database to the model.*

Updating to the current version of Power BI Desktop usually resolves this issue.

## Other issues

Power BI Desktop doesn't support running with a system account because WebView2 doesn't support system accounts. Running Power BI Desktop using a system account may result in the error: "Microsoft Edge can't read and write to its data directory."

## Disable notifications

We recommend updating to the most recent version of Power BI Desktop to take advantage of advances in features, performance, stability, and other improvements. Some organizations might not want users to update to each new version. You can disable notifications by modifying the registry with the following steps:

1. In the Registry Editor, navigate to the **HKEY\_LOCAL\_MACHINE\SOFTWARE\Microsoft\Microsoft Power BI Desktop** key.
2. Create a new **REG\_DWORD** entry in the key with the following name: **DisableUpdateNotification**.
3. Set the value of that new entry to **1**.
4. Restart your computer for the change to take effect.

## Power BI Desktop loads with a partial screen

In certain circumstances, including some screen resolution configurations, some users might see Power BI Desktop render content with large black areas. This issue is generally a result of recent operating system updates that affect how items are rendered, and not a direct result of how Power BI Desktop presents content. Follow these steps to resolve this issue:

1. Press the Windows **Start** key and enter *blurry* into the search bar.
2. In the dialog that appears, select the option: **Let Windows fix apps that are blurry**.
3. Restart Power BI Desktop.

This issue might resolve after later Windows updates are released.

## Related content

After you install Power BI Desktop, see the following content to help you get up and running quickly:


- [What is Power BI Desktop?](#)
- [Query overview in Power BI Desktop](#)
- [Data sources in Power BI Desktop](#)
- [Connect to data in Power BI Desktop](#)
- [Shape and combine data in Power BI Desktop](#)
- [Common query tasks in Power BI Desktop](#)

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Last updated on 11/22/2025

# Basics of the Power BI service

Article • 04/14/2025

Use this article to familiarize yourself with some of the terms and concepts associated with the Power BI service. Understanding these terms and concepts makes it easier for you to read through the other Power BI articles and to work in the Power BI service ([app.powerbi.com](https://app.powerbi.com) )

## What you can do in the Power BI service

The Power BI service enables users to perform a variety of tasks, which can be broadly categorized into two main activities: **creating and sharing content** and **consuming and interacting with content**.

### Create and share content

Users who create and share content in Power BI service are often referred to as **designers** or **creators**. They play a key role in building and organizing content within the Power BI service, enabling others to consume and interact with data effectively.

- **Build reports and dashboards:** Use data from semantic models to design interactive visuals and dashboards that convey insights effectively.
- **Organize content:** Group related reports, dashboards, and datasets into workspaces or apps for better management and sharing.
- **Collaborate with others:** Share content with colleagues or teams, assign roles, and manage permissions to ensure secure collaboration.
- **Publish apps:** Bundle dashboards, reports, and datasets into apps for streamlined sharing with larger audiences.

### Consume and interact with content

Users who consume and interact with the content in Power BI service are often referred to as **end users**, **consumers**, or **business users**. They primarily focus on interacting with and deriving insights from the content created by designers, enabling data-driven decision-making and collaboration within their organization.


- **View and explore reports:** Interact with visuals, apply filters, and drill down into data to uncover insights.
- **Monitor dashboards:** Stay updated on key metrics and trends by viewing live dashboards with real-time data.
- **Use apps:** Access collections of reports and dashboards shared by others to gain insights relevant to your role or organization.

- **Collaborate on goals:** Track progress and contribute to shared scorecards and metrics for team or organizational objectives.

By understanding these capabilities, users can maximize their productivity and collaboration within the Power BI service.

## Power BI service concepts


The following table lists some of the key concepts and terms used in the Power BI service. Understanding these terms will help you navigate the Power BI service more effectively.

 Expand table

Term	Definition	Learn more
Visualization	A type of chart built by Power BI designers to display data from reports and semantic models; visualizations are interactive and allow slicing, filtering, and drilling into data	<a href="#">Interact with visuals in reports, dashboards, and apps</a>
Semantic model (formerly known as dataset)	A container of data used by designers to build reports, dashboards, and apps; can combine multiple data sources into a single model	<a href="#">How do designers assign permissions to semantic models?</a>  <a href="#">How semantic models are shared with colleagues</a>
Dashboard	A single screen with tiles of interactive visuals, text, and graphics, often used to monitor metrics or tell a story.	<a href="#">Dashboards for the Power BI service business users</a>
Report	One or more pages of interactive visuals, text, and graphics based on a single semantic model, often organized to address specific questions or areas of interest.	<a href="#">Reports in Power BI</a>  <a href="#">Reports versus dashboards</a>
App	A collection of dashboards, reports, and semantic models bundled together for sharing with individuals, groups, or organizations.	<a href="#">End-user apps</a>
Workspace	A collaborative area where designers store and manage collections of dashboards and reports. Business users are assigned roles to interact with the content.	<a href="#">Learn more about workspaces</a>
License and subscription	Determines the level of access and features available to users in the Power BI service, such as free, Pro, or Premium licenses.	<a href="#">Organizational licenses and subscriptions for Fabric and Power BI</a>

Term	Definition	Learn more
		<a href="#">Licenses and subscriptions for business users</a>
Capacity	A dedicated set of resources used to enhance performance and scalability for Power BI content, often associated with Premium features.	<a href="#">Manage your Fabric capacity</a>
Workbook	An Excel file uploaded to the Power BI service, which can be viewed or used as a data source for reports and dashboards.	<a href="#">Get data from Excel workbook files</a>  <a href="#">Publish to Power BI from Microsoft Excel</a>
Dataflow	A collection of data transformation steps stored in the Power BI service, enabling reusable and centralized data preparation.	<a href="#">Creating a dataflow</a>  <a href="#">Introduction to dataflows and self-service data prep</a>

## Related content

- [What is Power BI?](#)
- [Get around in Power BI service](#)
- [Tour the report editor in Power BI](#)
- More questions? [Ask the Power BI Community](#) 

# What's new in Power BI: November 2025 update

The November 2025 Power BI feature update brings several important announcements and enhancements across the platform. Key highlights include the deprecation of R and Python visuals in the "Embed for your customers" solution, significant updates to Copilot and AI capabilities—such as the standalone Copilot in Power BI mobile apps (preview) and improvements to Verified Answers—and new options for reporting, modeling, and data connectivity. There are also advancements in report visuals, with features like automatically expanding matrix columns and a generally available Card visual.

For a quick summary of the November features, read on. For a detailed look at these updates and more enhancements, go to the [Power BI November 2025 Feature Summary blog post](#). You can also watch the [November demos](#).

Download the [November 2025 version of Power BI Desktop](#).

To stay up to date on **bug fixes and improvements** as they're announced, visit the [change log for Power BI Desktop](#).

## Events and announcements

- **Fabric Data Days:** Two months of learning, contests, live sessions, and community connection start November 4. See the [full schedule](#).
- **FabCon:** March 16–20, 2026, Atlanta, GA. This community-led event includes keynotes, expert sessions, an expo hall, Power Hour, the Data Viz World Championship, and a party at the Georgia Aquarium. [Use code FABCOMM](#) to get \$200 off.

## General

 Expand table

Feature	Description	Currently in preview
Announcing deprecation of R and Python visuals in "Embed for your customers" solution	In May 2026, Power BI is ending support for embedding reports and dashboards containing R or Python visuals using "Embed for your customers" (app owns data) and Publish to web scenarios. After this date, R or Python charts will display as blank. This doesn't affect "Embed for your organization" or "Secure embeddings to SharePoint, Website, or Portal."	

# Copilot and AI

 Expand table

Feature	Description	Currently in preview
Ask anything, anywhere with Standalone Copilot in Power BI mobile apps	New standalone Copilot experience on mobile homepage with complete chat capabilities. Ask questions, get instant insights, and interact with generated visuals with citations. iOS apps support dictation for voice interaction. Requires activity linked to Fabric capacity. Semantic models must be <a href="#">prepared for AI</a> ; the mobile experience surfaces clear warnings when models aren't prepared.	✓
Updates to the standalone Copilot in Power BI	Copilot now automatically selects data sources when there's a strong match, eliminating the need to choose from a list. New entry points on the home page, suggested prompts for recently opened items, and improved experience for attaching items to questions.	
Improvements to the Report Copilot	Upgraded Report Copilot with better visual recommendations, expanded visual library, and improved context awareness. Creates entire report pages in seconds with more accurate and insightful results. Available in Power BI service and Desktop.	
Improvements to Verified Answers	Verified answers now inherit the entire visual state including slicers, cross-filters, and drill-through filters. Filter limit increased from 3 to 10 permutations. New card visual and Azure maps now supported. Improved filtering reliability.	
Remote Power BI Model Context Protocol Server for chat with your Data	Remote MCP server provides agents and MCP clients with tools to chat with data remotely, authenticated with Microsoft Entra ID. Includes tools for getting semantic model schema, generating DAX queries, and executing queries.	✓

# Reporting

 Expand table

Feature	Description	Currently in preview
Automatically expand matrix columns to fill available space	Matrix visual now supports the <b>Grow to fit</b> option, distributing extra space evenly across columns when total column width is smaller than the visual container. Horizontal scrollbar behavior corrected.	

Feature	Description	Currently in preview
Card visual	<b>Now generally available</b> with support for hero images, dynamic collage layout, customizable display order for callout area/reference label/hero image, and consistent formatting controls across visuals. Images can be uploaded, provided via URL, or selected from dataset. This release also includes improvements to callout image alignment, background image fit, and reference label padding, plus an Autogrid behavior that prevents empty columns in collage layouts. Includes updated default styling and a consistent modern formatting experience across visuals. The legacy Card visual remains available.	
Enhancing Image visuals with styling, states, and more	Image visual now supports state-based formatting (All, Default, Hover, Pressed) and rich styling controls including background, border, shape, and effects. Expanded image sources (URL, data column, upload) and fit options (Fit, Fill, Center, Stretch).	
OneLake Catalog now supports user data functions for Translytical task flows	Fabric user data function selection improved with OneLake catalog. Browse, search, view details, and filter by My Functions or Endorsed in your org. Available when selecting functions for Data function actions.	✓

## Modeling

 Expand table

Feature	Description	Currently in preview
Power BI Modeling MCP Server	Local MCP server enables AI agents to interact with Power BI models using natural language. Build and modify semantic models, perform bulk operations, apply best practices, and leverage agentic workflows. Available as Visual Studio Code extension.	✓
Semantic Model Version History	<b>Now generally available.</b> Automatically captures up to five versions when opening models in Editing mode, publishing/uploading .pbix files, or restoring versions. Versions can be restored from Office-like history pane.	
TMDL Visual Studio Code Extension	<b>Now generally available</b> with DAX semantic highlighting, Power Query support, breadcrumb navigation, code actions, code formatting, and localization. Essential for working with TMDL documents in Power BI Projects.	

# Data connectivity

 Expand table

Feature	Description	Currently in preview
Spark and Impala Connectors	Implementation 2.0 <b>now generally available</b> , powered by open-source Arrow Database Connectivity (ADBC) driver. Delivers faster, more secure connectivity with reduced overhead, memory safety, and seamless integration across Fabric and Power BI Desktop.	

# Visualizations

 Expand table

Feature	Description	Currently in preview
Activity Gauge by Powerviz	Advanced visual for measuring progress against targets for multiple categories. Features gauge customization, targets, data colors with 7 schemes and 30+ palettes, smart labels, center circle customization, interactive mouseover, fill patterns, conditional formatting, ranking, annotation, and grid view.	
Decomposition Tree – All Expanding	Now allows adding a legend field that creates more column charts beside each node showing breakdown from another dimension. Supports images in nodes.	
Dynamic chart legends in Zebra BI Charts	Chart legends automatically adapt to selected filter or scenario, eliminating confusion from static labels. Useful for financial planning and analysis when comparing forecast versions, year-over-year analysis, and regional reporting.	
Drill Down Bubble PRO by ZoomCharts	Create visually impressive bubble charts with intuitive UI interactions. Features drill down through multi-level hierarchy, data-driven formatting with custom marker colors/shapes/images, trendlines, thresholds, and area shading. Includes free Developer License for Power BI Desktop.	
Power BI Theme Generator	Rebuilt and expanded BIBB Report Theme Generator helps teams standardize look-and-feel and meet accessibility baselines. Features smarter color engine with contrast checks, gradients creation, AI-powered themes, preset brand colors, apply theme through Fabric, font selection, live preview, and advanced BI.ST mode.	

Feature	Description	Currently in preview
Power Gantt Chart by Nova Silva	Now supports task dependencies with Finish-to-Start (FS) dependencies visualized as arrows connecting tasks. Enables true project scheduling capability to understand task sequences, identify bottlenecks, and manage timelines.	
Synoptic Panel by OKVIZ	Transform any SVG image into an interactive visual. Perfect for floor plans, organizational charts, technical layouts, or geographical maps. Features flexible image loading, multi-level navigation, dynamic switching, Map Editor and Label Designer, advanced coloring, map search, and integrated security.	

## Resources

Want to learn about Power BI through videos and other engaging content? Check out these video sources and content:

- See [all Power BI playlists on YouTube](#).
- [Power BI YouTube channel](#): Official Microsoft Power BI channel.
- Follow Power BI on X [@MSPowerBI](#).
- Go to the [Power BI forums in the Microsoft Fabric Community](#).

### ⓘ Note

Some resources use earlier versions of Power BI Desktop or the Power BI service.

If your organization needs an earlier version, download it. Use the most recent version of Power BI Desktop when possible. Earlier versions have these limitations:

- Previous releases of Power BI Desktop aren't serviced. Use the most recent release for the latest features and updates.
- Previous versions can't open files created or saved in newer releases of Power BI Desktop.
- If you load a report from a newer release, get a warning, and then save it in a previous version, you lose information related to new features.
- Only English versions of Power BI Desktop are archived.

Download the [November 2025 version of Power BI Desktop](#).

## Past updates

Find previous monthly Power BI updates in the [Power BI monthly updates archive](#).

ⓘ **Note:** The author created this article with assistance from AI. [Learn more](#)

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Last updated on 12/01/2025

# Get started with Power BI Desktop

09/15/2025

Welcome! If you're new to Power BI, you're in the right place. This tutorial will walk you through the basics of using Power BI Desktop—from installing the app to building your first report. Whether you're working with Excel data or exploring other sources, this guide is designed to meet you at your current level and help you build confidence step by step.

## What is Power BI Desktop?

Power BI Desktop is a free Windows application that lets you connect to data, transform it, and create interactive visual reports. It's part of the Power BI suite, which also includes the Power BI service (online) where you can publish and share your reports.

With Power BI Desktop, you can:

- Import data from Excel, databases, web sources, and more
- Clean and shape your data using Power Query
- Build visuals like charts, maps, and tables
- Publish your reports to the Power BI service for sharing

## Install Power BI Desktop

To get started, you need to install Power BI Desktop on your computer:

1. You can install it from the **Microsoft Store** (recommended for automatic updates), or download it directly from the [Power BI Desktop download page](#) <sup>↗</sup>.
2. Choose the version that matches your system (32-bit or 64-bit) if downloading manually.
3. Download and run the installer.
4. Follow the prompts to complete the installation.

Once installed, launch Power BI Desktop from your Start menu or desktop.

## Explore the Power BI Desktop interface

When you open Power BI Desktop, you'll see a user-friendly interface designed to help you build reports efficiently:

- **Ribbon:** Contains tabs like **Home**, **Insert**, and **Modeling** with tools for data and visuals.
- **Report canvas:** The main area where you build and arrange your visuals.
- **Fields pane:** Shows the tables and fields from your data model.

- **Visualizations pane:** Lets you choose and customize chart types.

Spend a moment exploring the layout—it's designed to be intuitive and flexible.

## Connect Power BI to Excel

Many users start with Excel data, and Power BI makes it easy to bring that data into your reports.

### Import data from Excel into Power BI Desktop

To get started with building reports in Power BI, you first need to bring in your data. Here's how to import data from an Excel file:

1. Open Power BI Desktop.
2. Select **Home > Get Data > Excel**.
3. Browse to your Excel file and select **Open**.
4. In the Navigator pane, select the worksheet or table you want to import.
5. Select **Load** to bring the data into Power BI.

This allows you to build reports and visualizations using your Excel data.

### Analyze Power BI data in Excel

If you want to go the other way—using Excel to analyze Power BI data—you can use the **Analyze in Excel** feature:

1. In the Power BI service (<https://app.powerbi.com>), open your report or dataset.
2. Select **More options (...)** > **Analyze in Excel**.
3. Power BI will generate an Excel file with a live connection to your dataset.
4. Open the file in Excel and use PivotTables to explore your data.

This method keeps your Excel workbook connected to Power BI, so your data stays up to date.

## Transform and clean your data

Once your data is loaded, you may need to clean or reshape it before building visuals. Power BI uses Power Query for this:

1. Select **Transform Data** to open Power Query Editor.
2. Use tools like:

- **Remove Columns** to eliminate unnecessary data
  - **Filter Rows** to focus on specific values
  - **Change Data Type** to ensure fields are correctly formatted
3. When you're done, select **Close & Apply** to save your changes and return to the main view.

Cleaning your data ensures your visuals are accurate and meaningful.

## Create your first visualizations

Now it's time to bring your data to life with visuals:

1. In the **Fields** pane, check the boxes next to the data you want to visualize.
2. Power BI will automatically create a visual based on your selection.
3. Use the **Visualizations** pane to change the visual type (e.g., bar chart, pie chart, map).
4. Drag fields into the **Values**, **Axis**, or **Legend** areas to customize your visual.

You can add multiple visuals to the canvas and arrange them to tell a compelling story.

## Add insights with AI (optional)

Power BI includes built-in AI features that help you explore your data more deeply:

- **Q&A:** Ask natural language questions like "What were sales by region?" and get instant visuals.
- **Smart Narratives:** Automatically generate text summaries that explain trends and key points in your visuals.

These tools are optional but powerful—especially when presenting to others.

## Save and publish your report

Once your report is ready:

1. Save it locally using **File > Save**.
2. To share it, select **Publish** on the Home ribbon.
3. Sign in to the Power BI service.
4. Choose a workspace to publish your report.

After publishing, you can:

- Share your report with colleagues
- Embed it in dashboards

- Schedule data refreshes to keep it up to date

Whether you're analyzing sales, tracking performance, or exploring trends, Power BI gives you the tools to turn data into insights.

## Related content

Power BI Desktop supports connecting to a diagnostics port. The diagnostics port allows other tools to connect to and perform traces for diagnostic purposes. When you're using the diagnostics port, *making any changes to the model isn't supported. Changes to the model may lead to corruption and data loss.*

For more information on the many capabilities of Power BI Desktop, check out the following resources:

- [Query overview in Power BI Desktop](#)
- [Data sources in Power BI Desktop](#)
- [Connect to data in Power BI Desktop](#)
- [Tutorial: Shape and combine data with Power BI Desktop](#)
- [Common query tasks in Power BI Desktop](#)

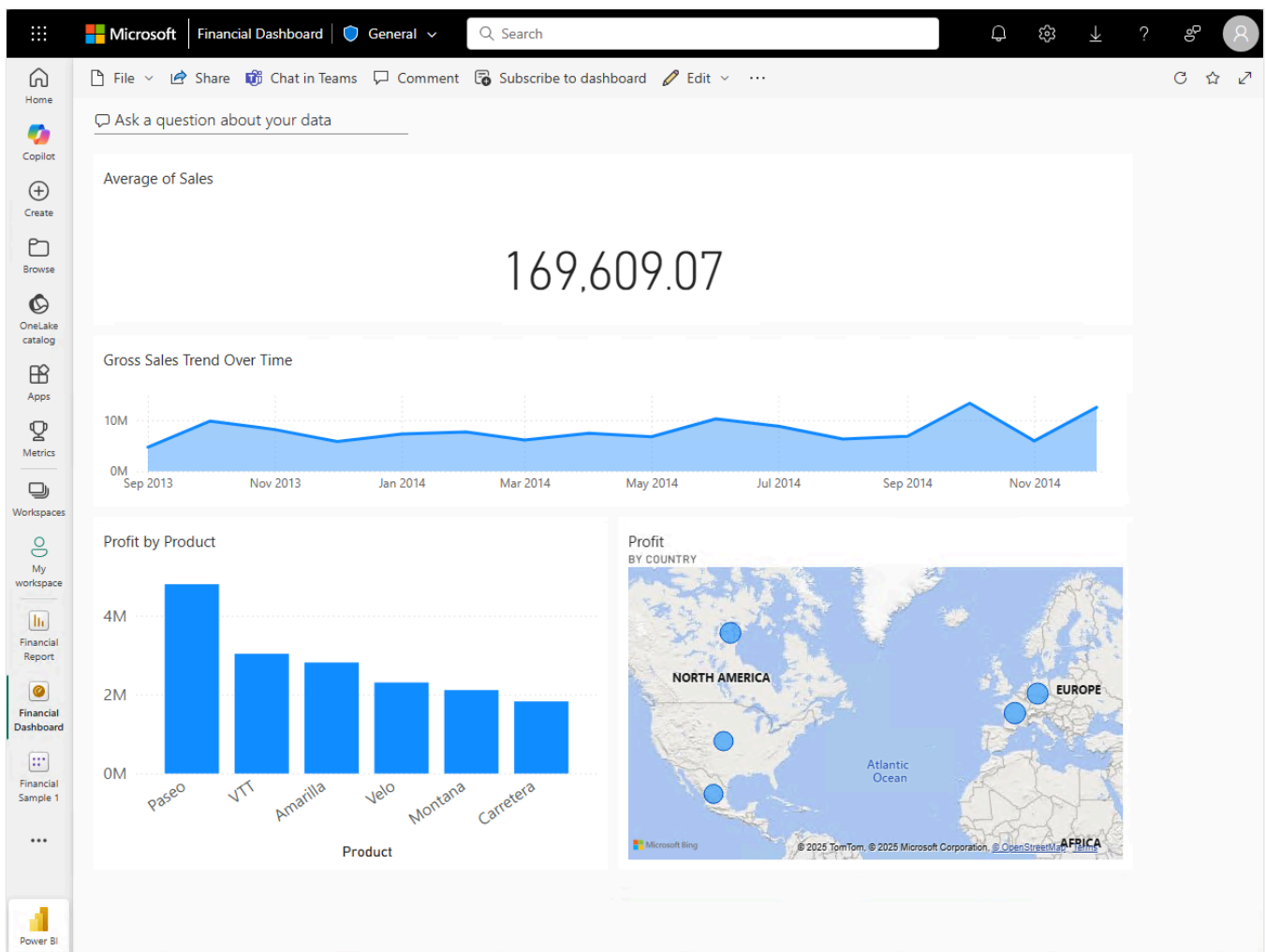
ⓘ **Note:** The author created this article with assistance from AI. [Learn more](#)

# Tutorial: Get started creating in the Power BI service

09/24/2025

**APPLIES TO:**  Power BI Desktop  Power BI service

This tutorial is an introduction to some of the features of the *Power BI service*. In this tutorial, you connect to data, create a report and a dashboard, and ask questions about your data. The exercises show you how to work with data on a dashboard and design semantic model visualizations. Here's an example dashboard:



In the Power BI service, you can accomplish many different tasks, and this tutorial can help you get started. For an understanding of how the Power BI service fits in with the other Power BI offerings, we recommend reading [What is Power BI?](#)

If you're a report *reader* or *viewer* rather than a creator, check out the [Getting around in the Power BI service](#) tutorial.

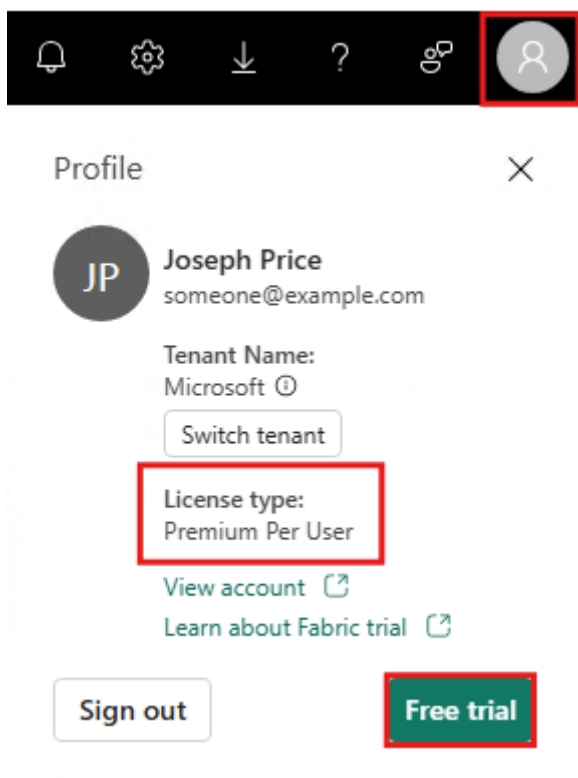
In this tutorial, you complete the following tasks:

- ✓ Sign in to your Power BI online account, or sign up, if you don't have an account yet.
- ✓ Open the Power BI service.
- ✓ Add and view data in reading or editing mode.
- ✓ Use data to create visualizations and save designs as a report.
- ✓ Create a dashboard by pinning tiles from the report.
- ✓ Add visualizations to a report and dashboard using Copilot.
- ✓ Add other visualizations to a dashboard with the Q&A natural-language tool.
- ✓ Resize, rearrange, and edit details for the tiles on the dashboard.
- ✓ Clean up resources by deleting the semantic model, report, and dashboard.

## Sign up for the Power BI service

You need a Power BI Pro or Premium Per User (PPU) license to create content in Power BI. If you don't have a Power BI account, and plan on creating content, [sign up for a free Power BI Premium Per User 60 day trial](#) before you begin. Complete the wizard to get a free license. Open the Power BI service (app.powerbi.com), and select the **Account manager** icon. Choose **Free trial**.

Although a paid or trial license is recommended, it isn't required for this tutorial. Even if you can't try the steps yourself, the description and screenshots still provide you with an introduction to working with data in the Power BI service.



## Add data to create a report

Often, when you want to create a Power BI report, you start in Power BI Desktop. Power BI Desktop offers more power. You can transform, shape, and model data, before you start designing reports.

For this tutorial, we start from scratch by creating a report in the Power BI service rather than through the Desktop. We create a semantic model from a simple Microsoft Excel file that contains sample financial data.

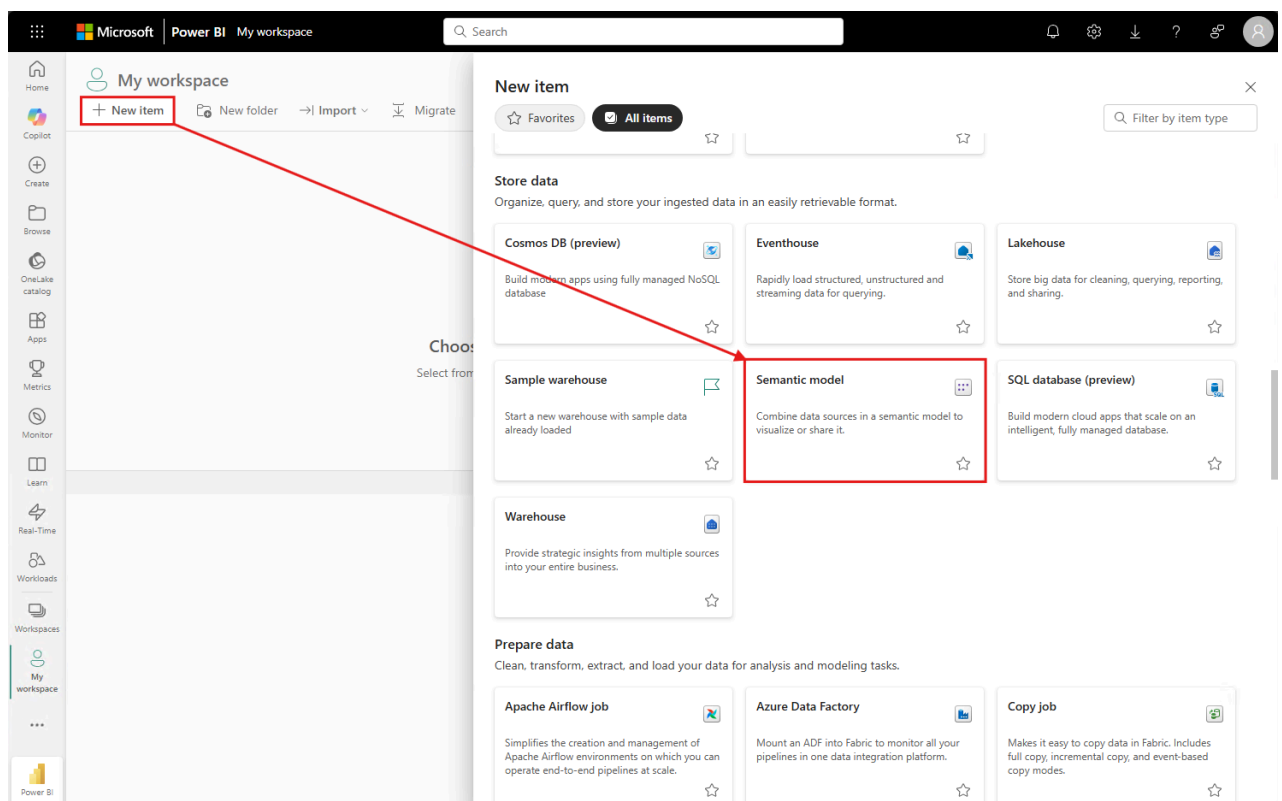
1. Open the Power BI service ([app.powerbi.com](https://app.powerbi.com)) in your browser.

Don't have an account? [Sign up for a free Power BI Premium Per User 60 day trial](#).

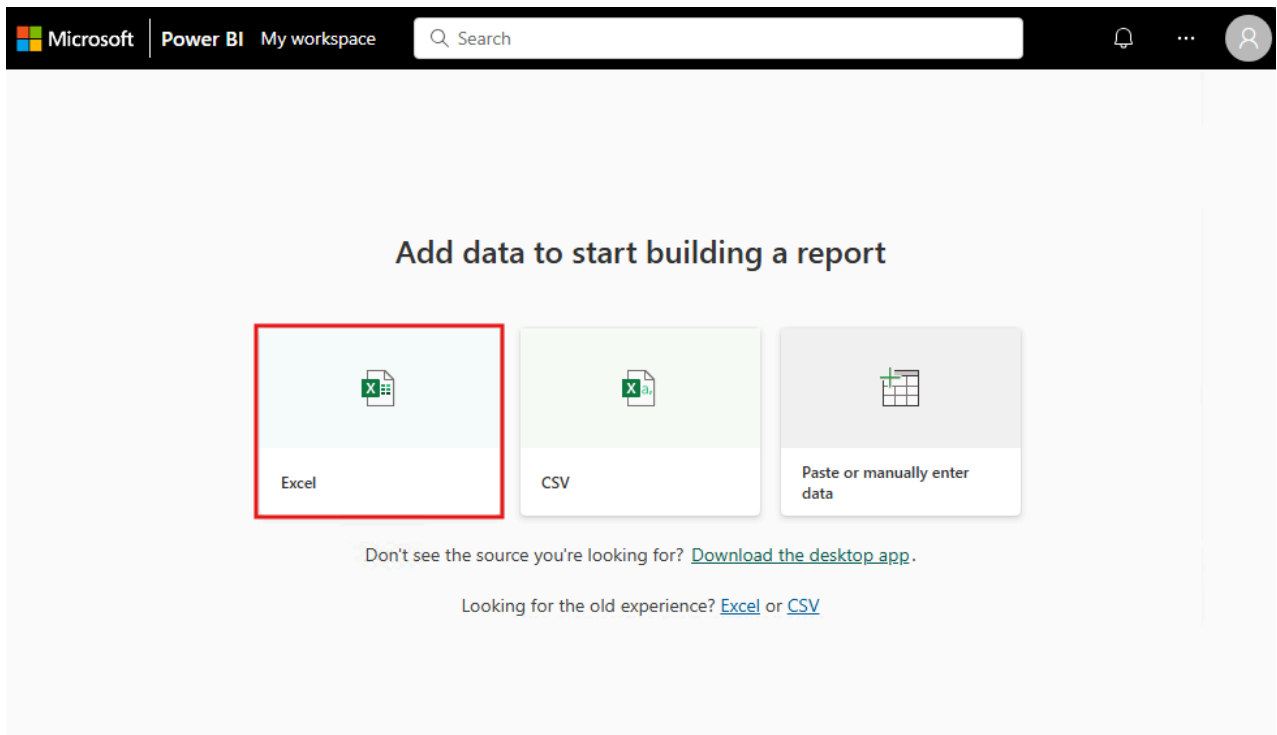
2. [Download the Excel file](#) that has the Financial Sample data.

3. Select **My workspace** in the navigation pane.

4. Select **New item** > **Semantic model** to initiate the import process. The **Add data to start building a report page** opens.



5. On the **Add data to start building a report page**, select **Excel**.



#### ⓘ Note

If you select **Upload** instead of **Link to file**, the Power BI service uploads the entire Excel workbook. You can then open and edit the workbook in Excel Online.

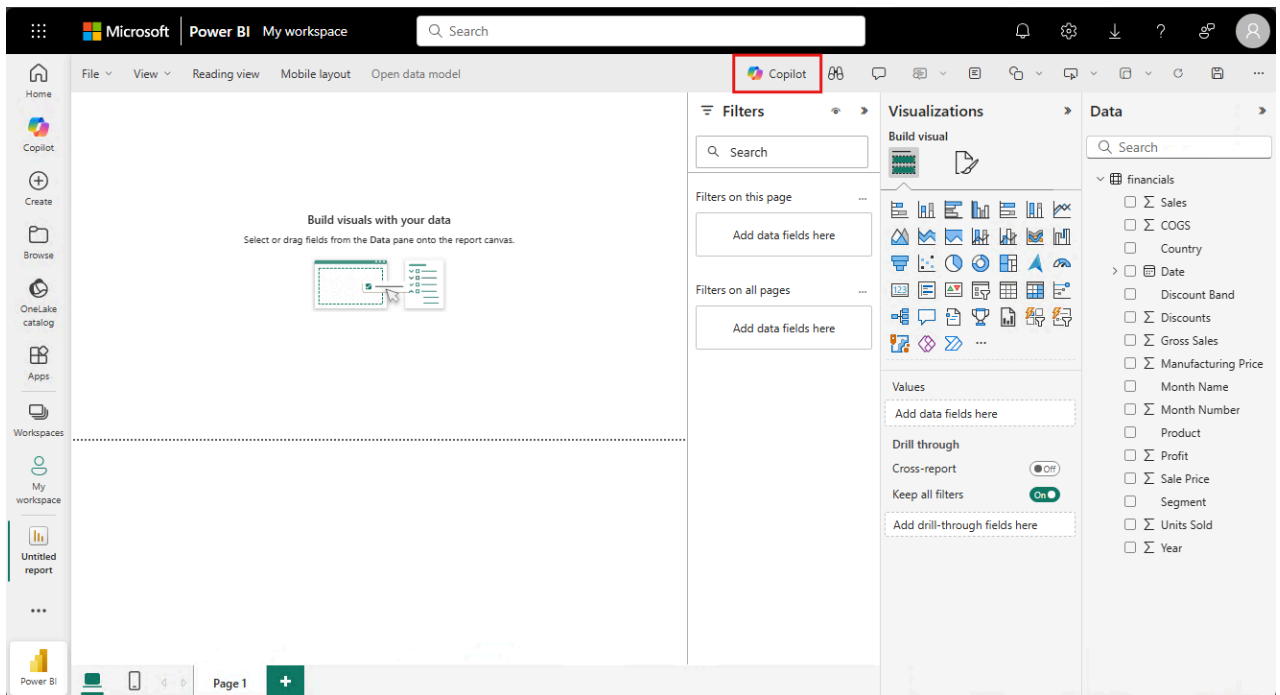
6. In the **Select a file** dialog, browse to the location where you saved the Excel file on your computer.
7. Select the file and choose **Select > Link to file > Next**.

#### ⓘ Note

If the file doesn't open, try changing the Sensitivity label to **Public**.

8. Select the data to use by placing a checkmark next to **financials** and choosing **Create**.

The Power BI service imports the sample data from the Excel file as a semantic model and opens a report canvas. We can now use the sample semantic model to create reports and dashboards. We're going to create a report partly from scratch and partly using Copilot. Let's start with Copilot.

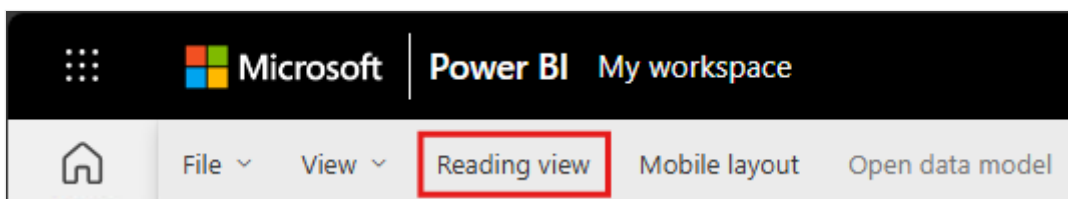


After you connect data to build a report, you're ready to start exploring. When you find an interesting item, you can save it on the report canvas. From the report canvas, you can pin the item to a dashboard to monitor the data for changes over time.

We can start by asking Copilot to review our data and suggest some visuals.

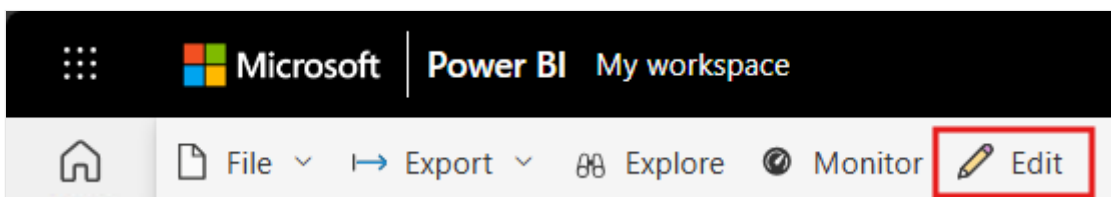
## Switch between report views

Reports have two modes: **Editing** and **Reading**. To create a report, add visuals, and edit your report, use **Editing** mode. To view your report in progress, switch to the **Reading** view at the top of the page:



In the Editing view, you can modify reports because you're an *owner* or *creator* of the report. When you share your report with colleagues, they often can interact with the report in Reading view only.

When you're ready to continue working on your report, select **Edit**:



# Build a report

There are many ways to build a report. In this article, we start by using Microsoft Copilot to create some report pages. Next, we add more visuals to a report page from scratch.

## Use Copilot to create a report in Power BI

You can get AI assistance from Copilot. Generate a Power BI report based on gross sales in Power BI.

Copilot prompt

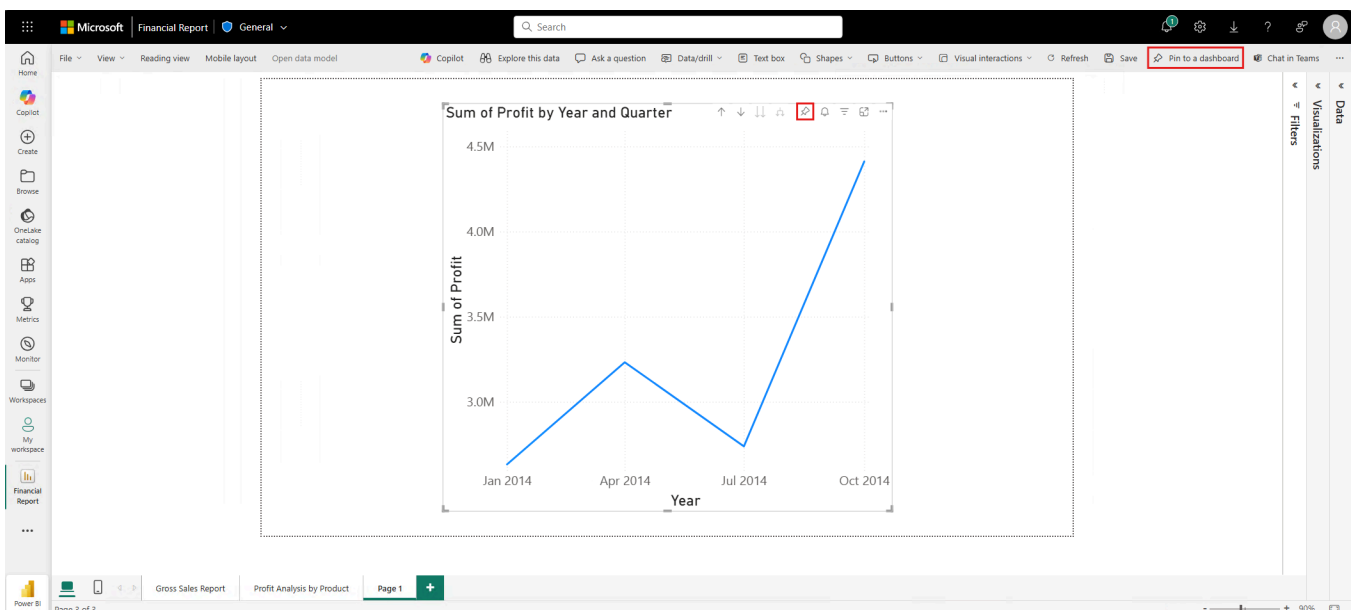
Create a Gross Sales report.

Copilot creates a report page and names it *Gross Sales Report*. Copilot is powered by AI, so it's important to verify the accuracy of results. For more information, see [Copilot for Microsoft Fabric and Power BI: FAQ](#).

## Pin a report visual to a dashboard

Create a new dashboard using one of the visuals from the report. Select the *Gross Sales Trend Over Time* visual. Hover over the visual and select **Pin visual** > **New dashboard** > **Keep current theme**. Give the new dashboard a name and select **Pin**. You can pin the whole report by selecting **Pin to a dashboard** in the top menu bar.

After you pin a visualization, it appears on the dashboard as a *tile*. The data in the visualization stays up-to-date so you can track the latest value at a glance.



### ⓘ Note

When the report is new, you're prompted to save the report before you can pin the visualization to a dashboard. Power BI saves the report to the selected location. The default is **My workspace**. Power BI shows the report in Reading view.

To continue editing the report, select **Edit** from the top menu bar.

## Use Copilot to suggest insights

1. Add a new report page by selecting the plus icon (+) at the bottom of the report.
2. Ask Copilot to suggest content.

Copilot prompt

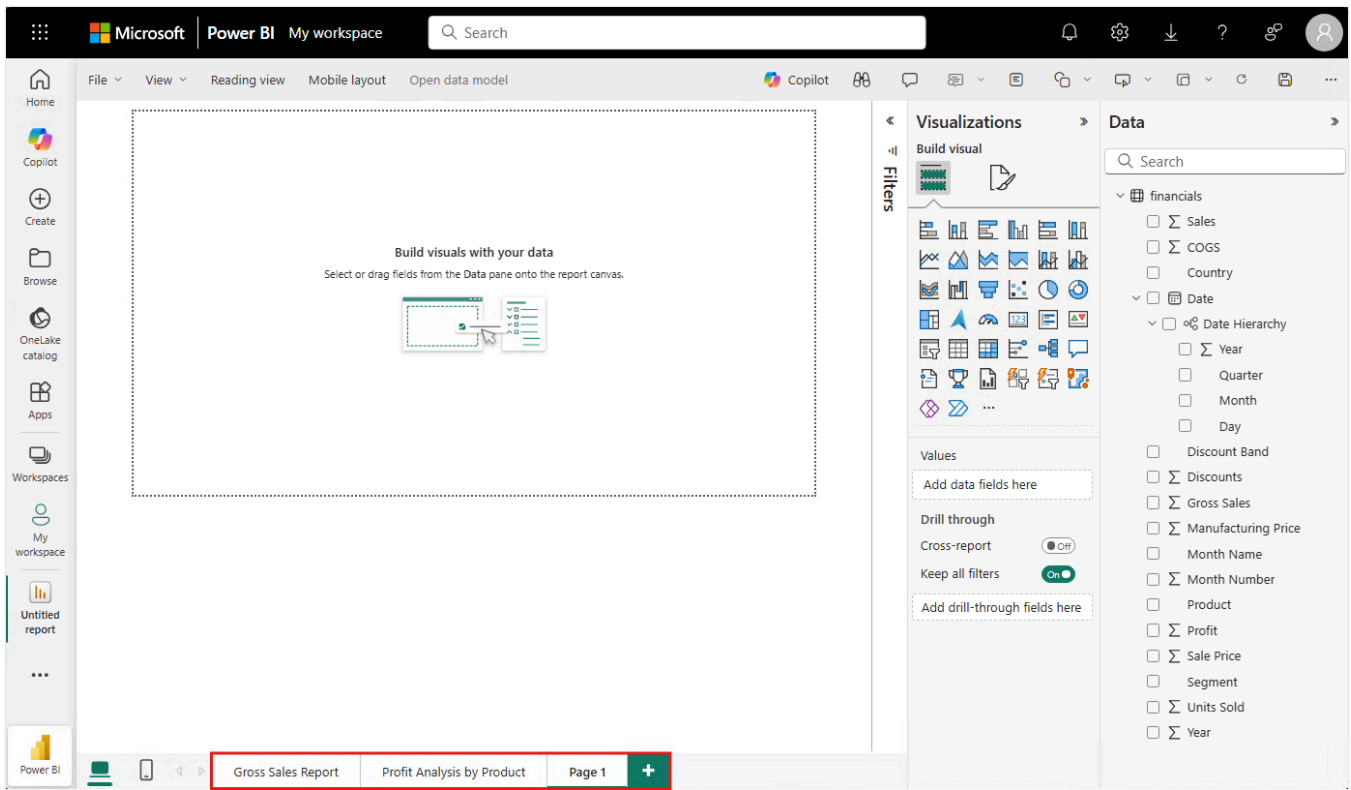
Suggest content for a new report page.

Select **Profit Analysis by Product** > **Create**. Copilot creates a new report page for you and names it *Profit Analysis by Product*.

1. Select another visual to pin to your dashboard. Select **Profit by Product** and pin it to the same dashboard.

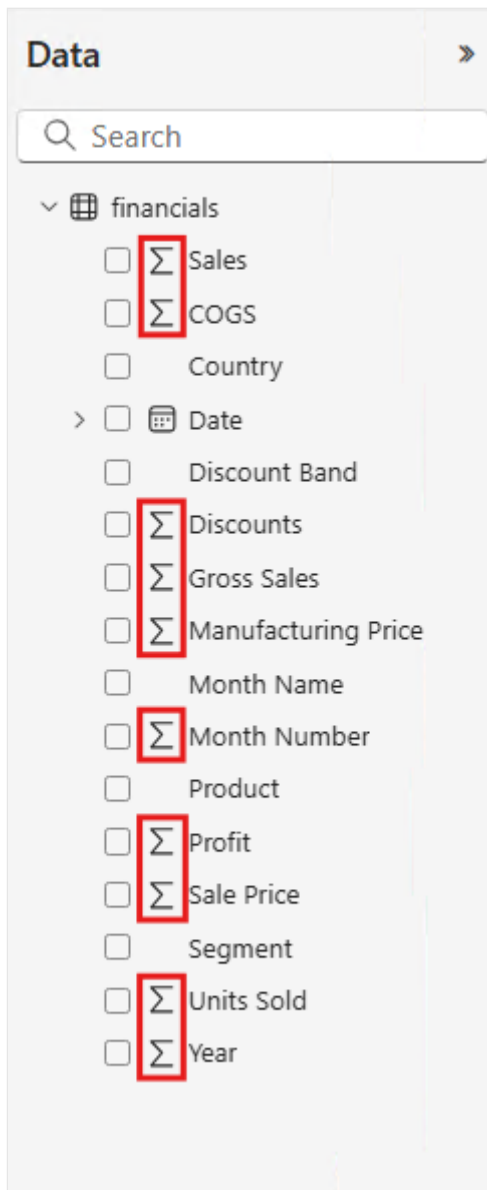
## Create report visuals from scratch

Add a new page to your report. The new report page canvas is blank and shows the **Filters**, **Visualizations**, and **Data** panes.

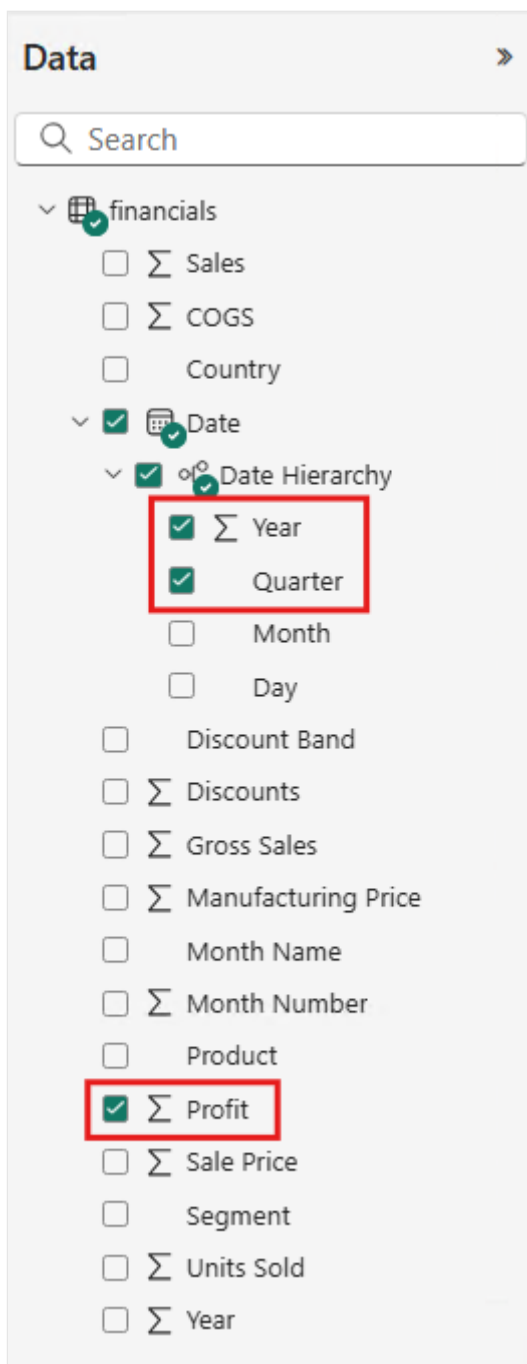


1. In the **Data** pane, select the arrow next to the **financials** heading to show the data items.

Some data items have a sigma symbol ( $\Sigma$ ) next to the name. Power BI displays the sigma next to data that has numeric values.



2. Under **financials**, select the **Profit** data item, and then select the **Date** item. **Date** has a hierarchy, so expand **Date** and select **Quarter** and **Year**.

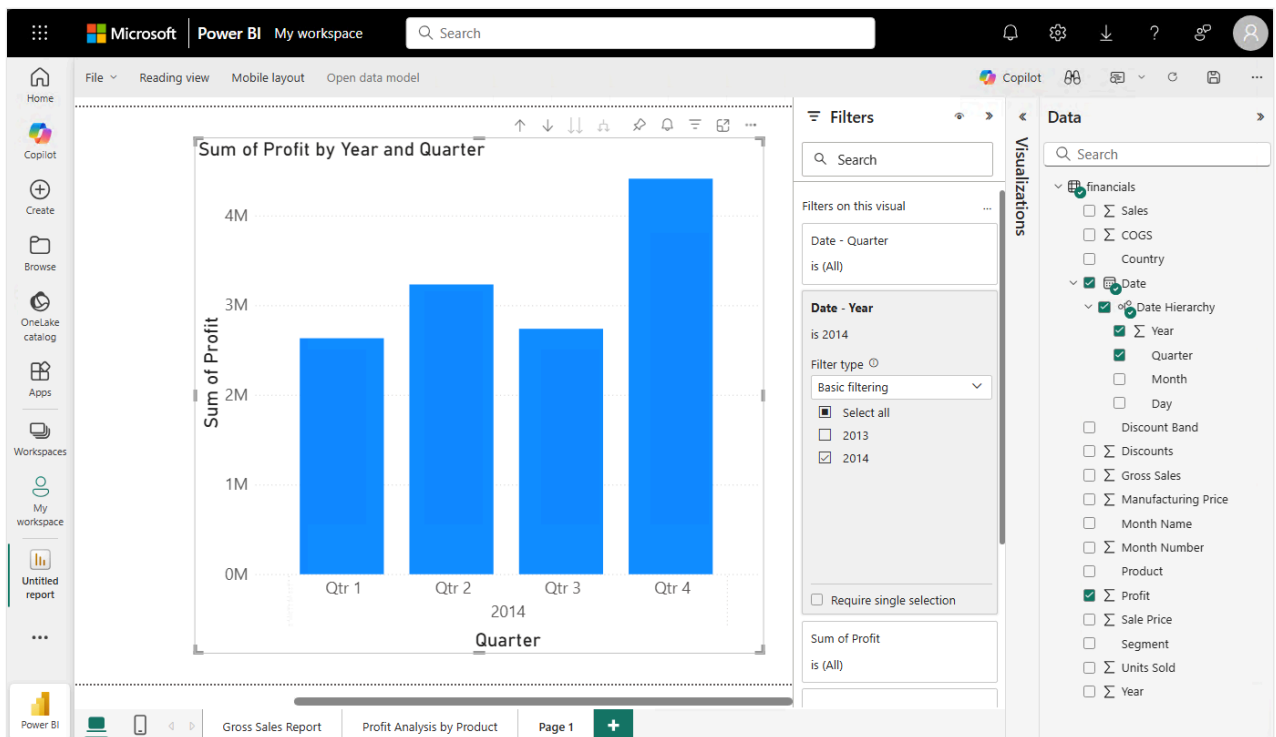


#### ⓘ Note

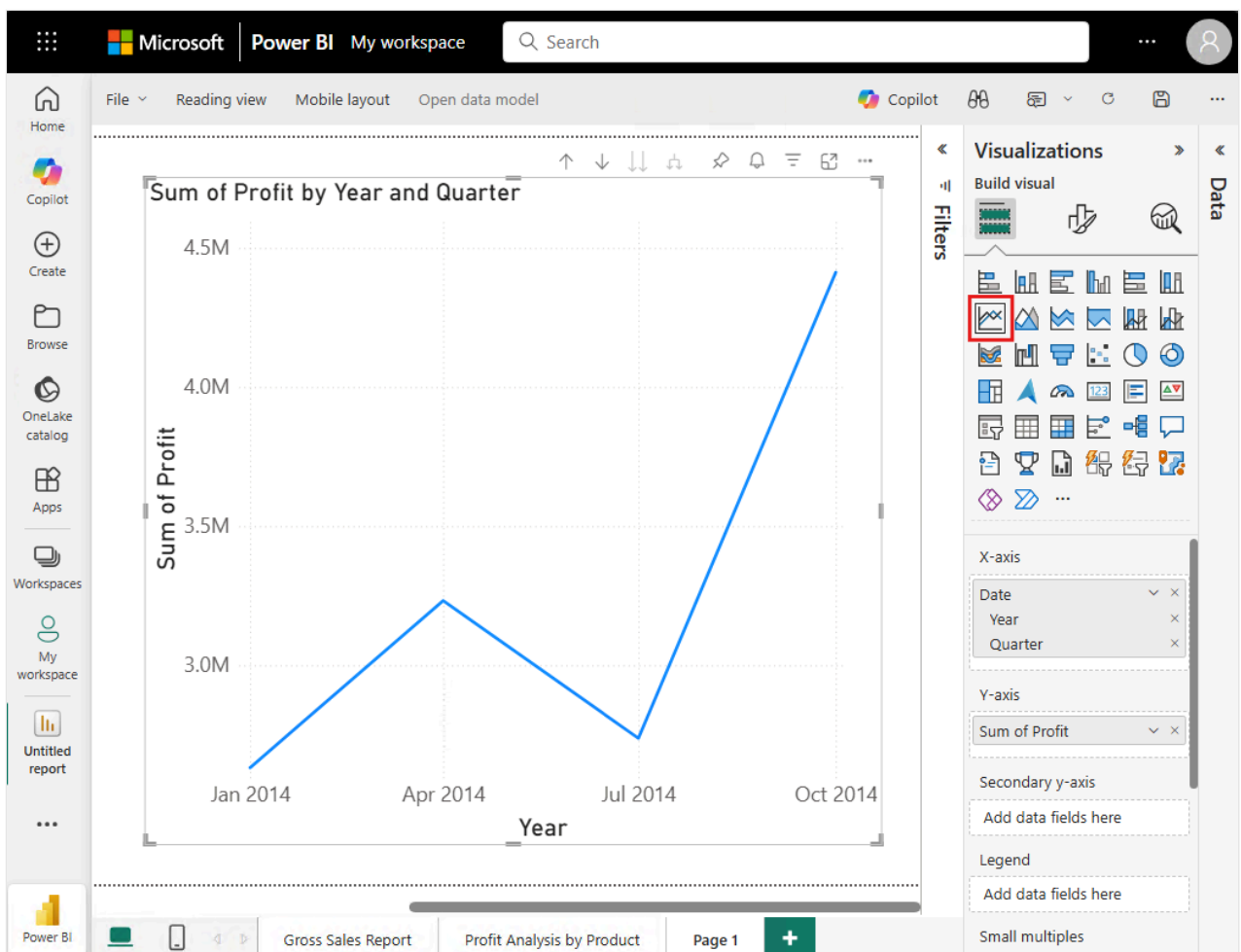
If you select the **Date** items before you select the **Profit** item, Power BI creates a table rather than a column chart. If you selected the items in this order, it's not a problem. We're going to change the visualization of the data in step 4.

3. Expand the **Filters** pane and change **Date - Year** to **2014**.

Power BI analyzes the selected data and creates a column chart visualization.



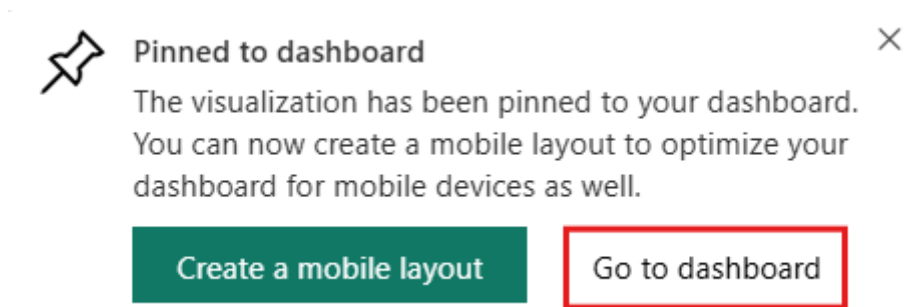
4. Let's try a different display of the selected data. Line charts are good visuals for showing changes in values over time. With the visual active, in the **Visualizations** pane, select **Line chart**.



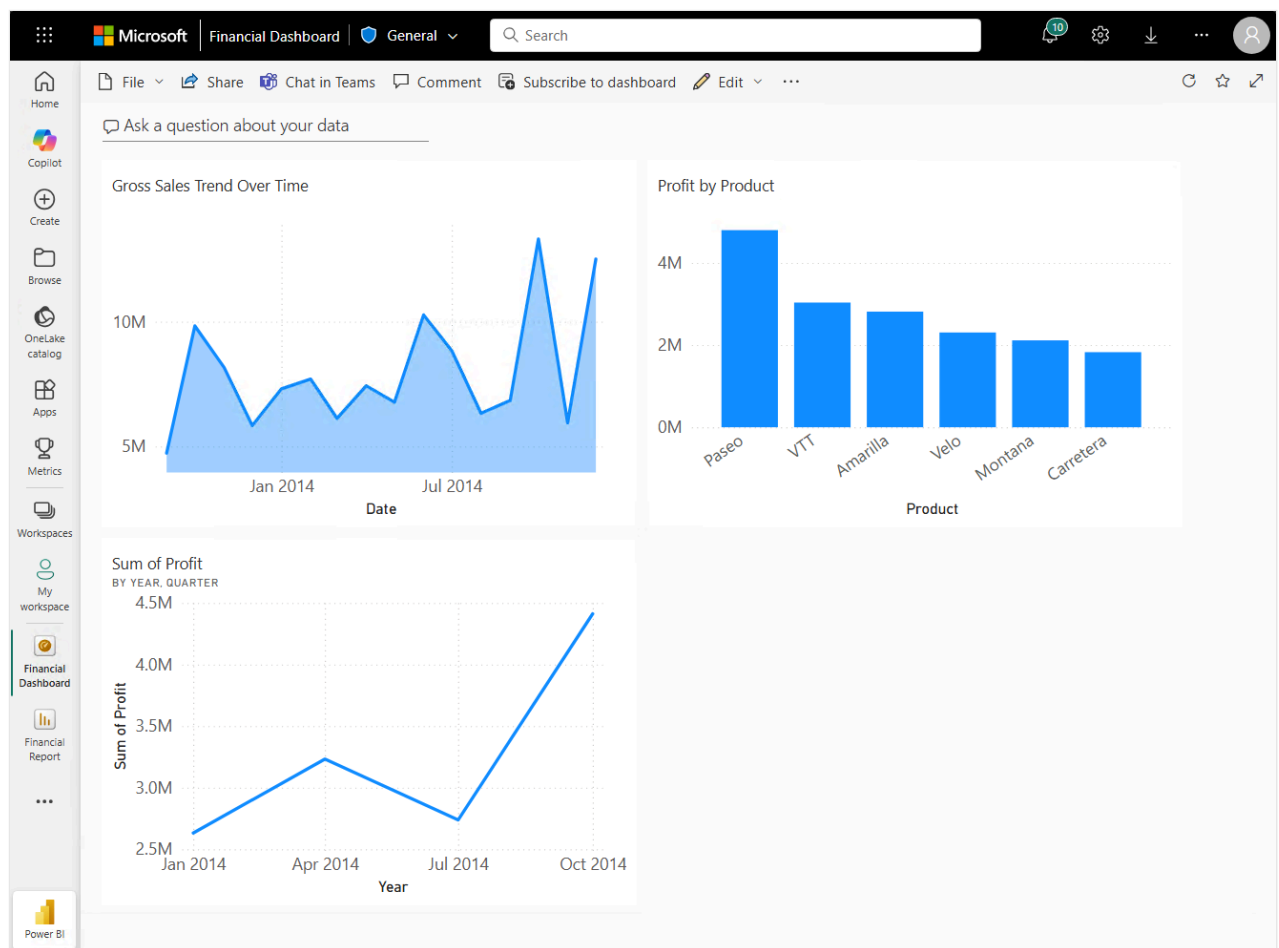
5. The line chart looks interesting, so let's pin the visualization to our dashboard.

6. In the message dialog, select **Go to dashboard**.

Power BI displays a success message after the service adds the visualization to the dashboard. The success dialog includes an option to create an optimized layout of the dashboard for mobile devices.



Your dashboard shows the tiles you pinned earlier when you were using Copilot plus the line chart that you created.

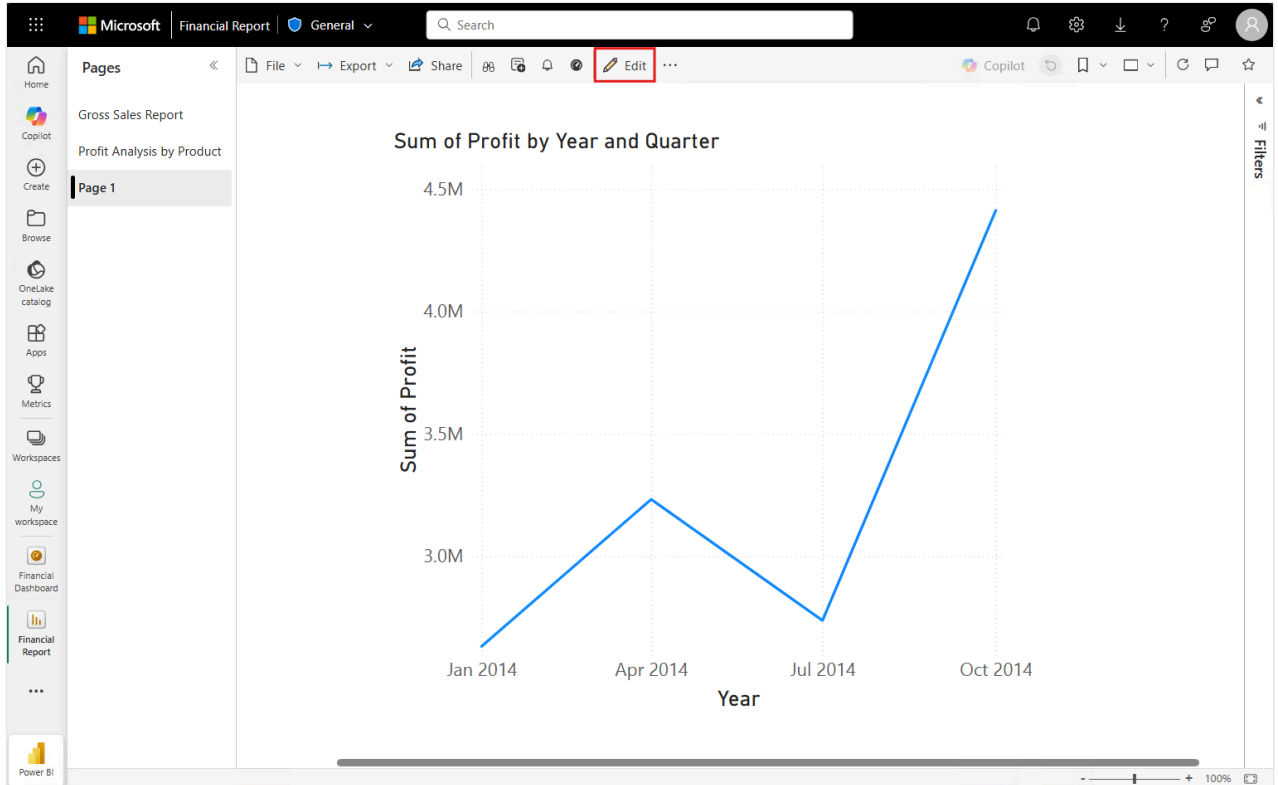


### ! Note

After you pin a visualization, if you change the visualization type in the report, the pinned visualization on the dashboard **doesn't** change. To see the new visualization,

pin it to the dashboard to create another tile. The use of multiple tiles lets you have more than one visualization of the same data on your dashboard.

7. Now select the line chart tile on the dashboard. The Power BI service returns you to the report editor where you can refine the visualization:



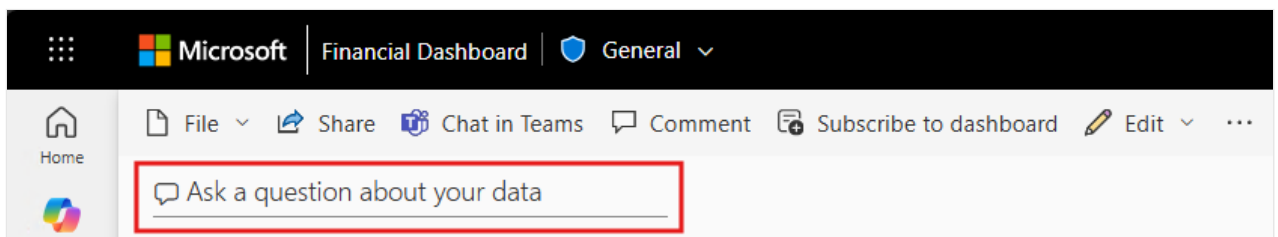
Select **Edit** to return to Editing view and continue to explore and pin tiles.

## Create report visuals with Q&A

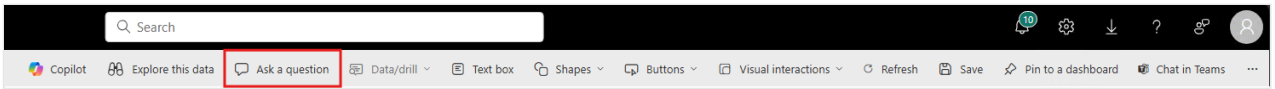
For a quick exploration of your data, try asking a question in the Q&A question box. Q&A lets you ask natural-language queries about your data.

In the Power BI service, you can find the Q&A question box in two places.

- On a dashboard, the **Ask a question about your data** Q&A box is at the top of the tile view:



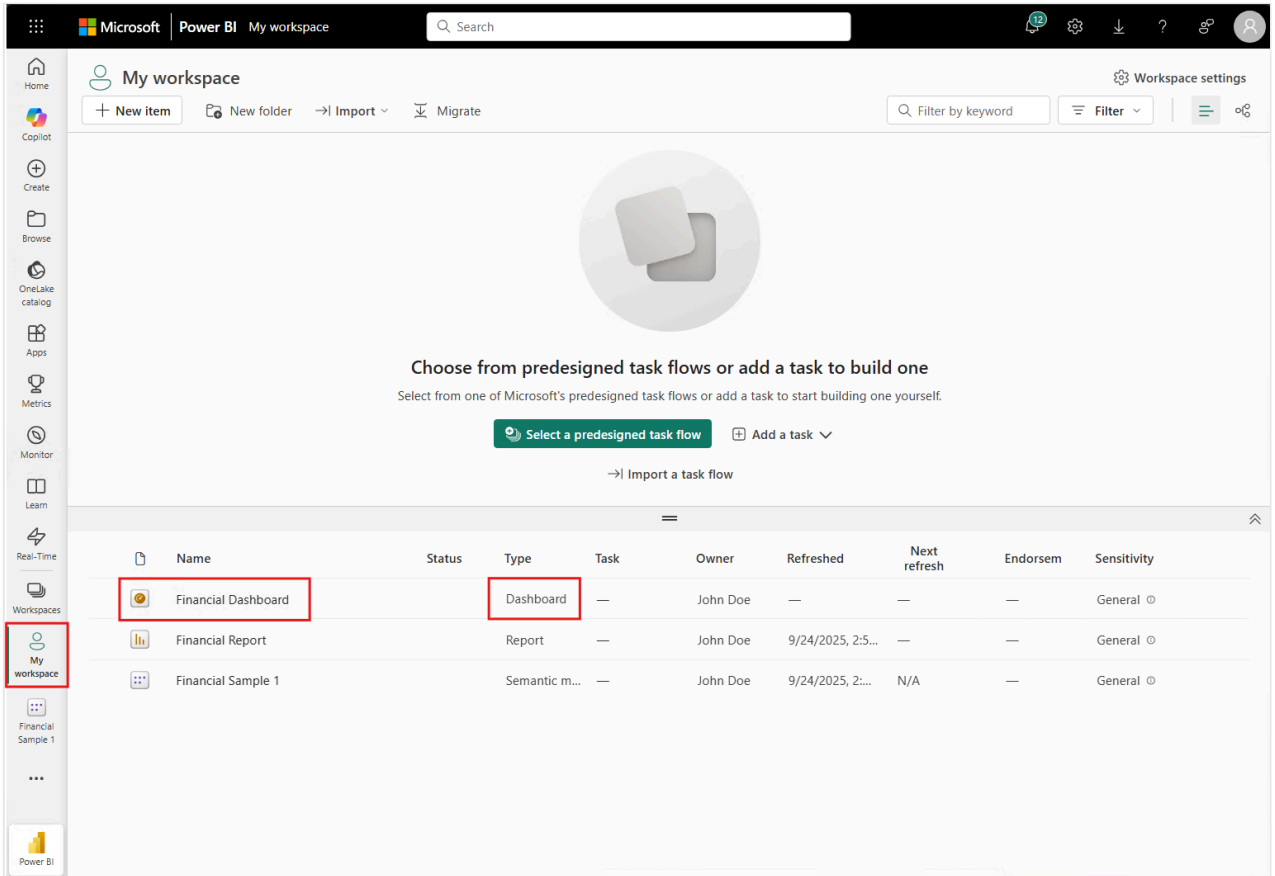
- In the report editor, the **Ask a question** Q&A box is in the top menu bar:



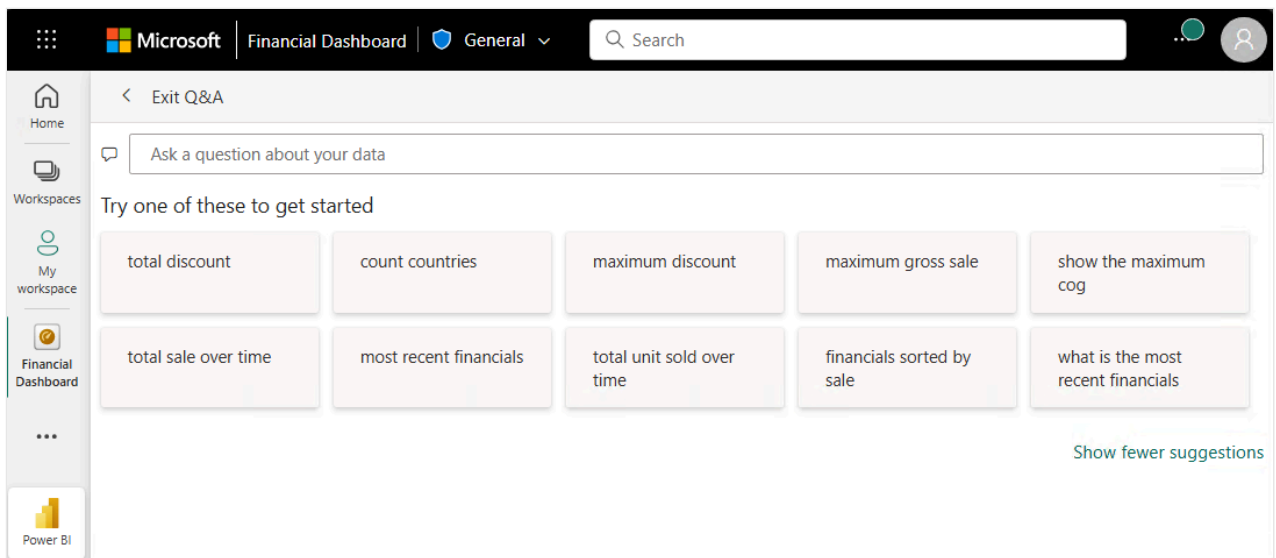
When you select the Q&A box, Power BI opens an extended view to help you ask questions and find answers.

Let's try out the Q&A experience for a dashboard.

1. In the Power BI service, select **My workspace**, and then select your dashboard for the Financial Sample.

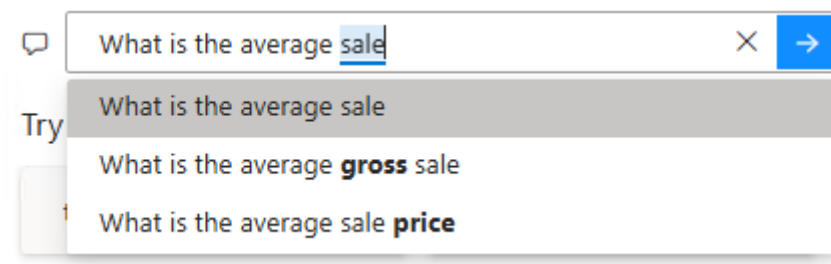


2. At the top of the tile view, select **Ask a question about your data**. The view expands and Q&A offers several suggestions.



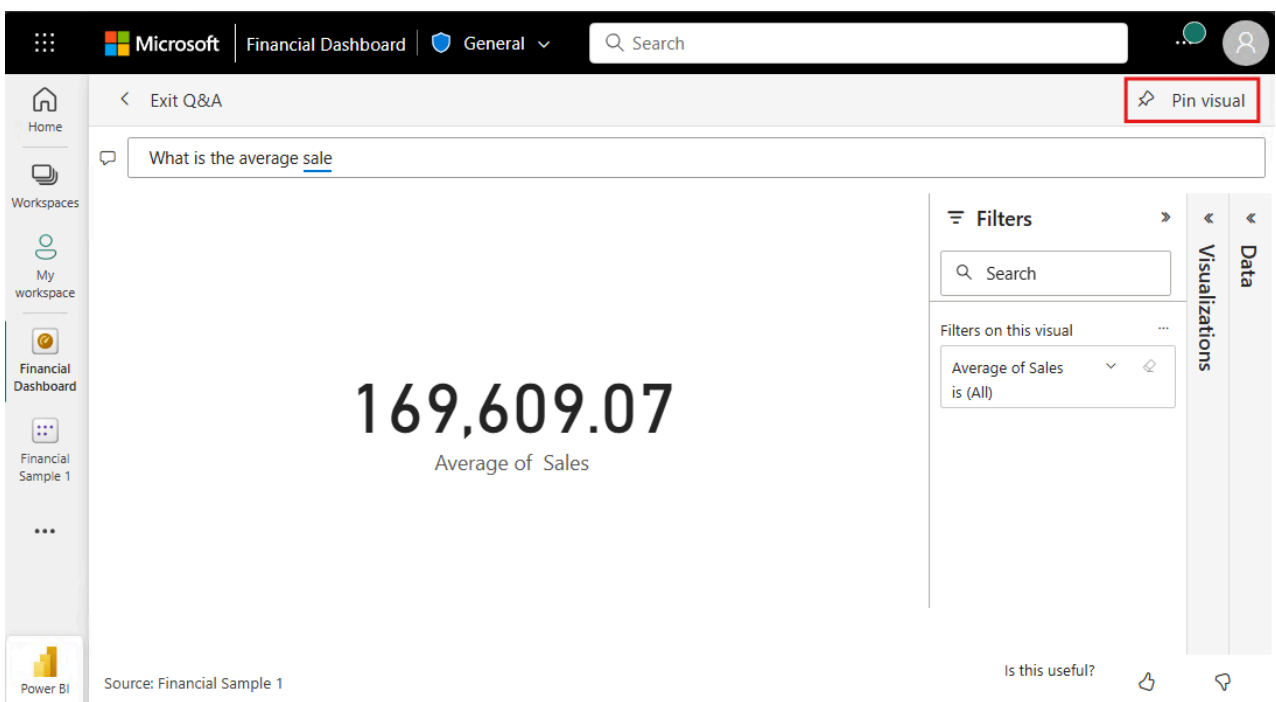
Select a suggestion and see the results, or enter your own question in the Q&A box.

3. In the Q&A box, enter the question *what is the average sales*. As you type, Q&A tries to pattern match your text entry for recognized questions.

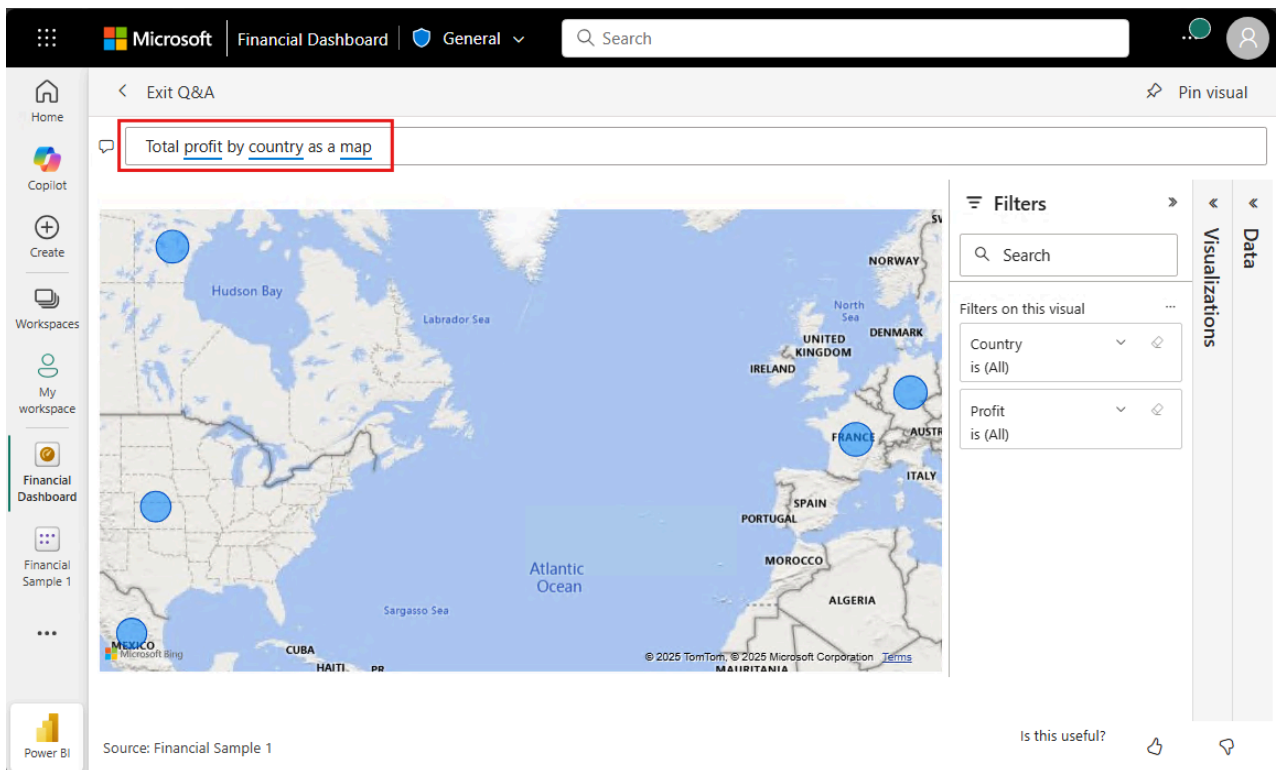


Q&A searches for an answer and displays the answer as a *card* visualization.

4. At the top right, select **Pin visual** and pin the visualization to your financial sample dashboard.



5. Try another question in the Q&A box. Enter *total profit by country as a map*.

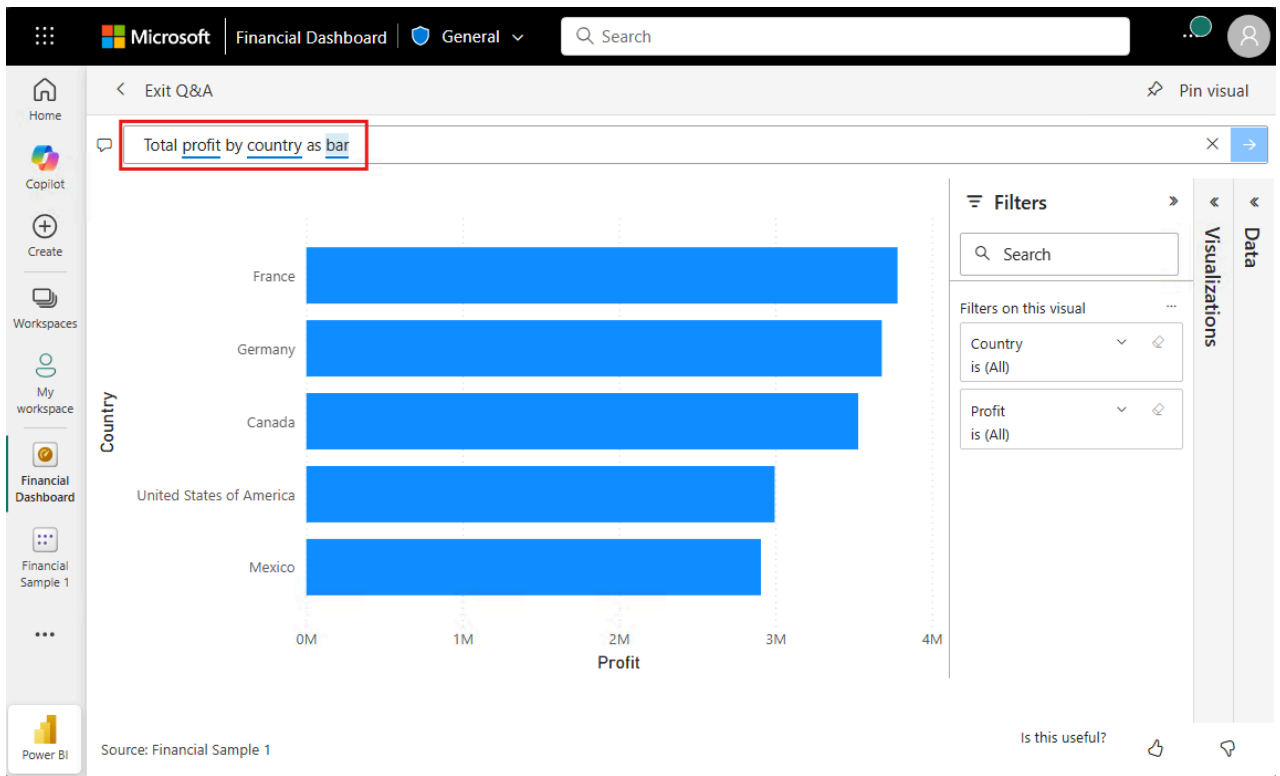


6. Pin the country/region map visualization to your financial sample dashboard.

7. In the success dialog, select **Go to dashboard** to view the newly pinned tiles on your dashboard.

8. On the dashboard, select the pinned country/region map. Notice how the visualization opens in Q&A.

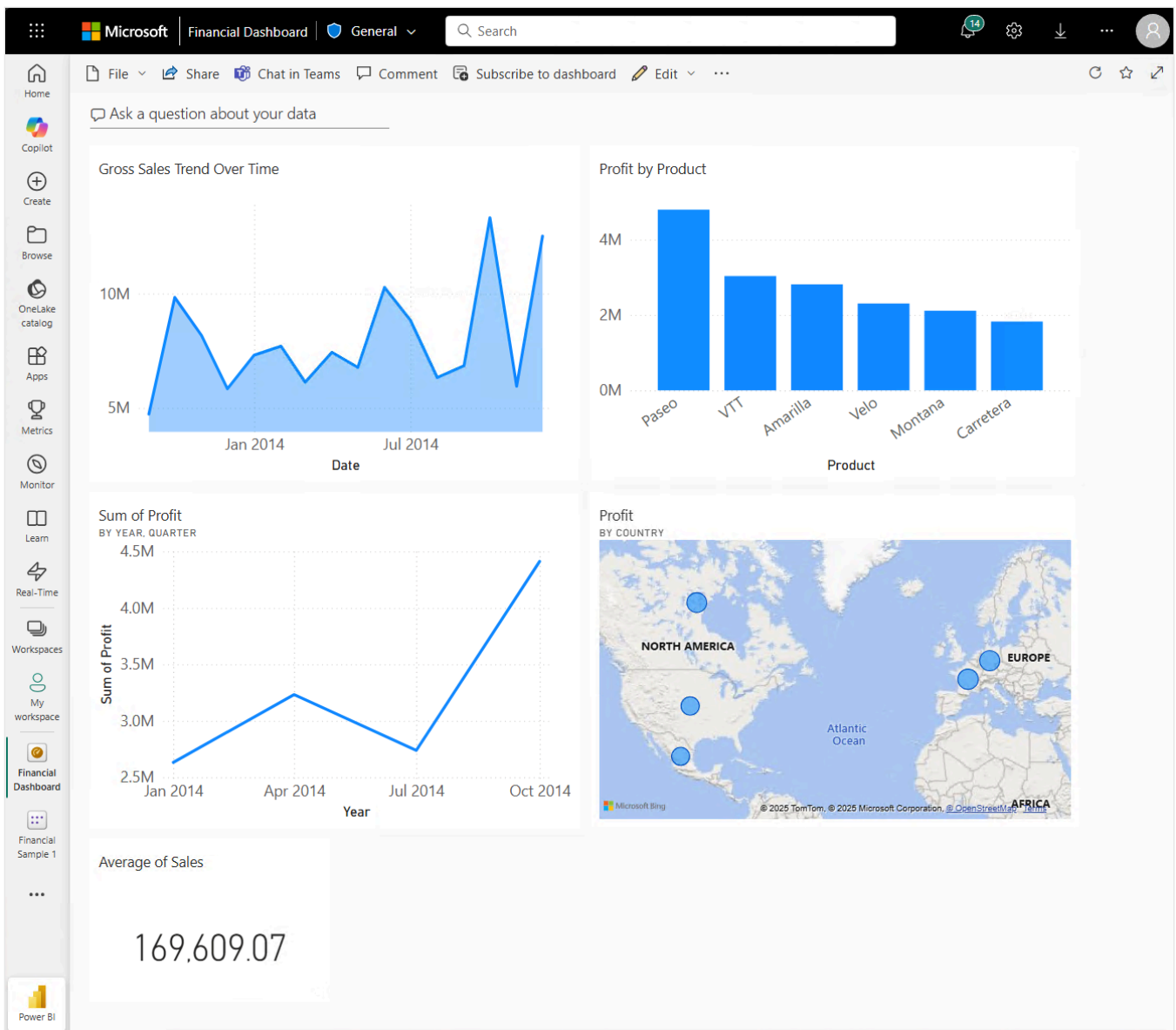
9. Place the cursor in the Q&A box at the end of your current query, and enter *as bar*. Power BI creates a bar chart with the results.



The data looks more interesting as a map, so we don't fin this bar chart.

10. At the top, select **Exit Q&A** to return to your dashboard.

You now have five pinned tiles on your dashboard: line chart, card, country/region map, and bar chart.



## Pin different views of data with multiple tiles

Notice that although you changed the map visualization to a bar chart in Q&A, the corresponding tile on the dashboard still shows a map.

When you pin a tile to a dashboard, the tile always displays the data by using the original visualization type. If you change the visualization type for an existing tile, and pin the tile, Power BI creates a new tile with the new visualization type. The original tile remains unchanged. The use of multiple tiles enables you to have more than one visualization of the same data on your dashboard.

## Adjust tile layout on the dashboard

Tiles on the dashboard can be rearranged and adjusted to make better use of the space. You can change tile sizes, reposition tiles, and work with tile details to improve the layout.

## Adjust tile size

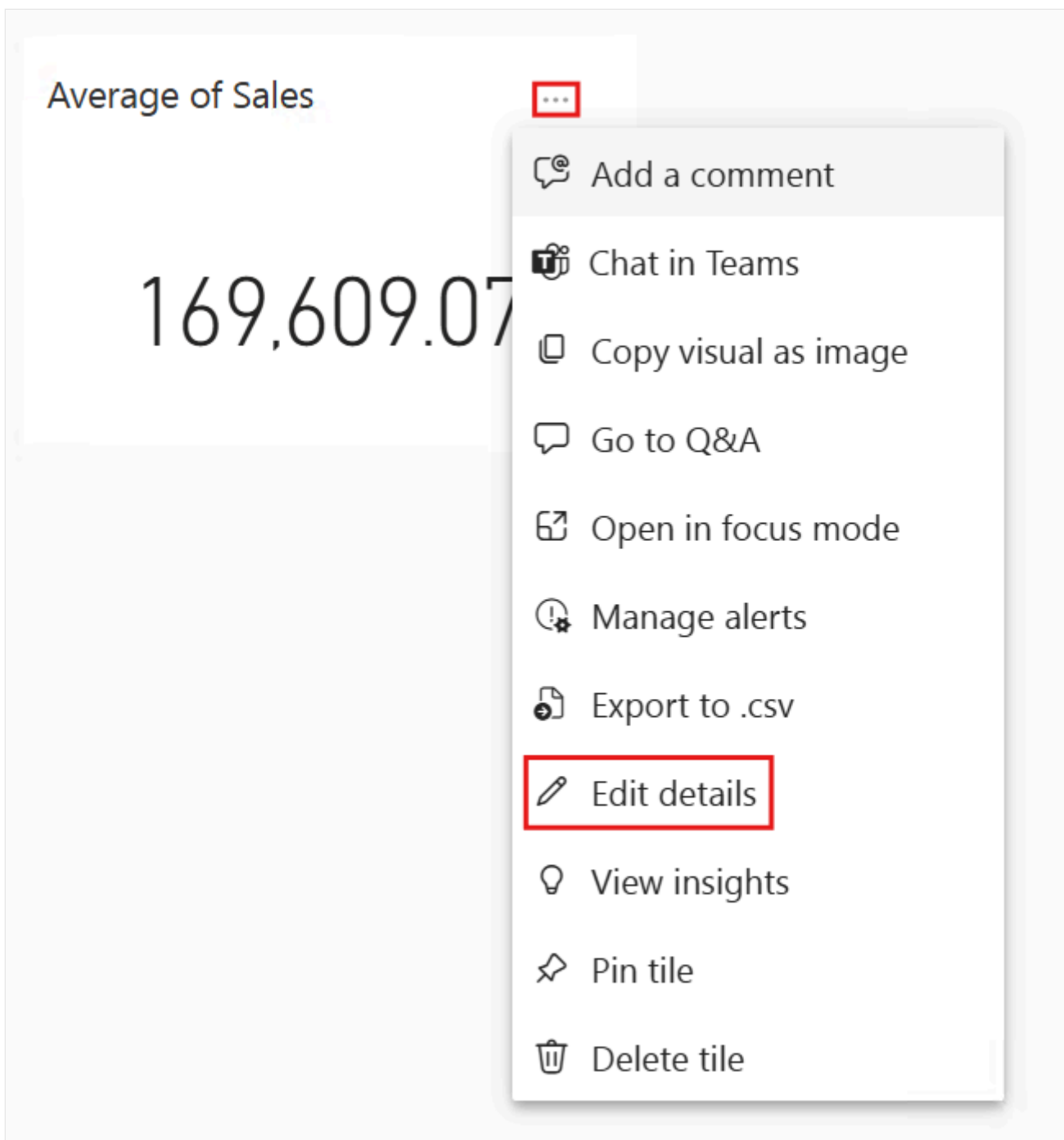
In the previous image, the *Sum of Profit* line chart was shortened and the *Average of sales* card was moved and lengthened. Here's how that was done.

1. Select the lower-right corner of the *Sum of Profit* line chart tile and drag the tile outline upward to reduce the overall tile height.
2. Select and hold the *Average of sales* card as you drag it to a new location. Release and then drag the bottom right corner until it matches the length of the tiles above it.

The two tiles are now the same height.

## Modify tile details

Sometimes changing **Tile details** can improve the dashboard presentation.



1. On the *Average of Sales* tile, select **More options (...)** > **Edit details**.
2. In the **Tile details** dialog, in the **Title** box, enter **Sales Average**.
3. Select **Apply**.

## Clean up resources

After you finish the tutorial, it's a good practice to delete the semantic model, report, and dashboard.

When you delete a semantic model, the Power BI service also deletes all reports and dashboard tiles that use data from the semantic model.

1. In the Power BI service, select **My workspace**.
2. Locate the Financial Sample **semantic model**.
3. Select **More options (...)** > **Delete**. Power BI displays a warning message: *All reports and dashboard tiles containing data from this semantic model are also deleted.*
4. Select **Delete**.

## Related content

- [Create quick reports](#) in the Power BI service.
- Learn all about [Microsoft Power BI](#).
- Become a [Microsoft Certified: Power BI Data Analyst Associate](#).

# Tutorial: Microsoft Fabric for Power BI users

06/17/2025

In this tutorial, you'll learn how to use Microsoft Fabric to prepare, load, and model data for Power BI reporting. You'll use Dataflows Gen2 to ingest and transform data into a Lakehouse, orchestrate data refreshes with Pipelines, and build a dimensional model using Direct Lake mode. Finally, you'll automatically generate a report to visualize the latest sales data.

By the end of this tutorial, you'll be able to:

- ✓ Prepare and load data into a lakehouse
- ✓ Orchestrate a data pipeline to refresh data and send an email on failure
- ✓ Create a semantic model in the Lakehouse
- ✓ Automatically create a report with quick create

## Prerequisites

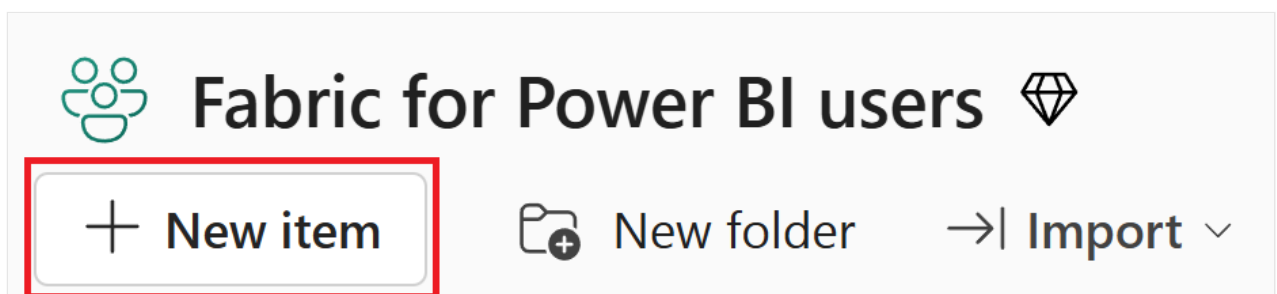
Before you begin, ensure you have the following:

- [Enable Fabric for your organization](#) if you haven't already.
- [Sign up for a free trial](#) if you don't have access.
- Create a [new workspace](#) and assign a Fabric capacity. You can use an existing workspace, but a nonproduction workspace is recommended for this tutorial.
- Download the [Power Query template](#) file containing sample queries for Contoso data.

## Create a lakehouse to store data

Start by creating a lakehouse to store your data. You'll use Dataflows Gen2 to prepare and transform it, and a pipeline to orchestrate scheduled refreshes and email notifications.

1. In your workspace, select **New item** at the top of the page.




2. On the **New item** creation screen, search for or select **Lakehouse**.

**New item** ×

☆ Favorites **☑ All items**

🔍 lakehouse ×

**Store data**  
Organize, query, and store your ingested data in an easily retrievable format.

**Lakehouse** 

Store big data for cleaning, querying, reporting, and sharing.

★

3. Enter **SalesLakehouse** as the name (names can include letters, numbers, and underscores, but not special characters or spaces), then select **Create**.

## New lakehouse

Name \*

Lakehouse schemas (Public Preview) ⓘ

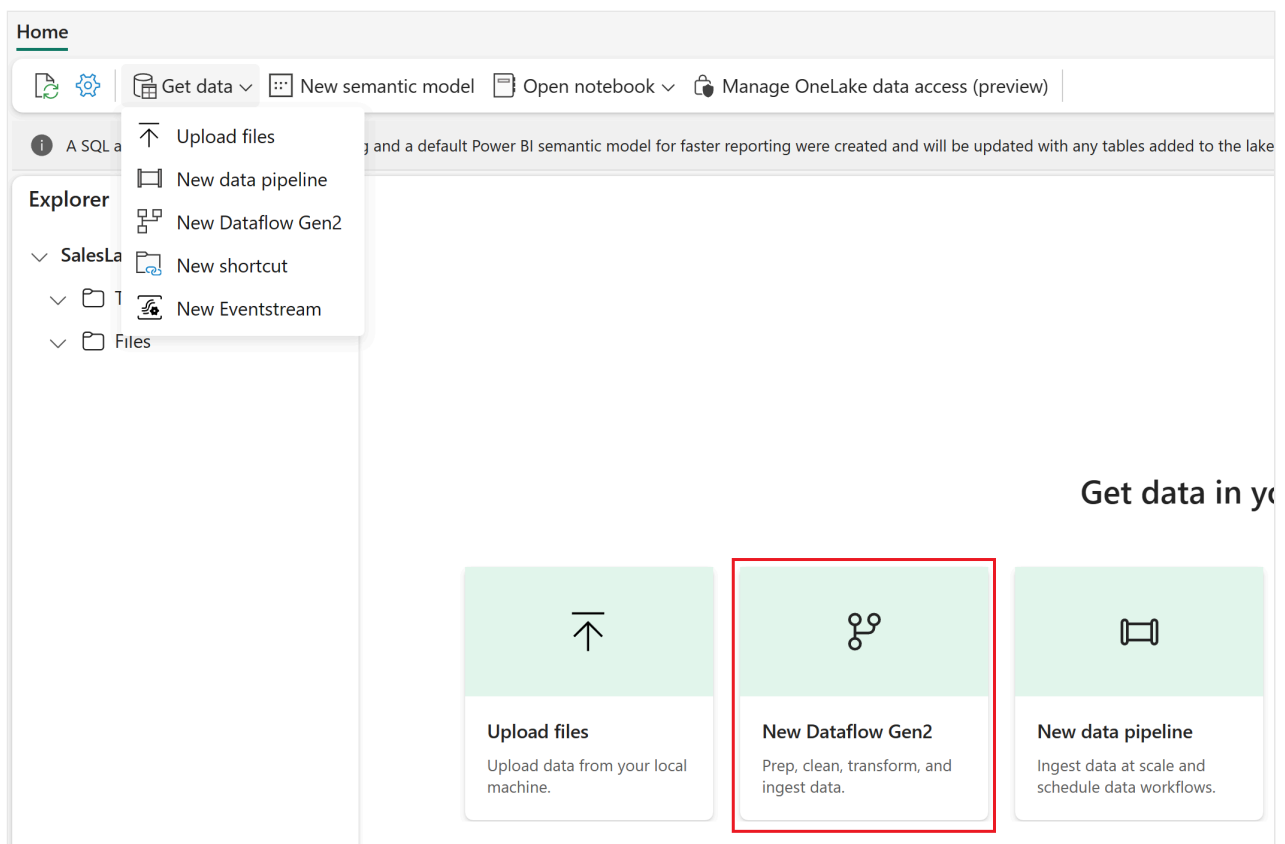
**Create**

**Cancel**

4. In the Lakehouse editor, select **New Dataflow Gen2** from the ribbon.

ⓘ **Note**

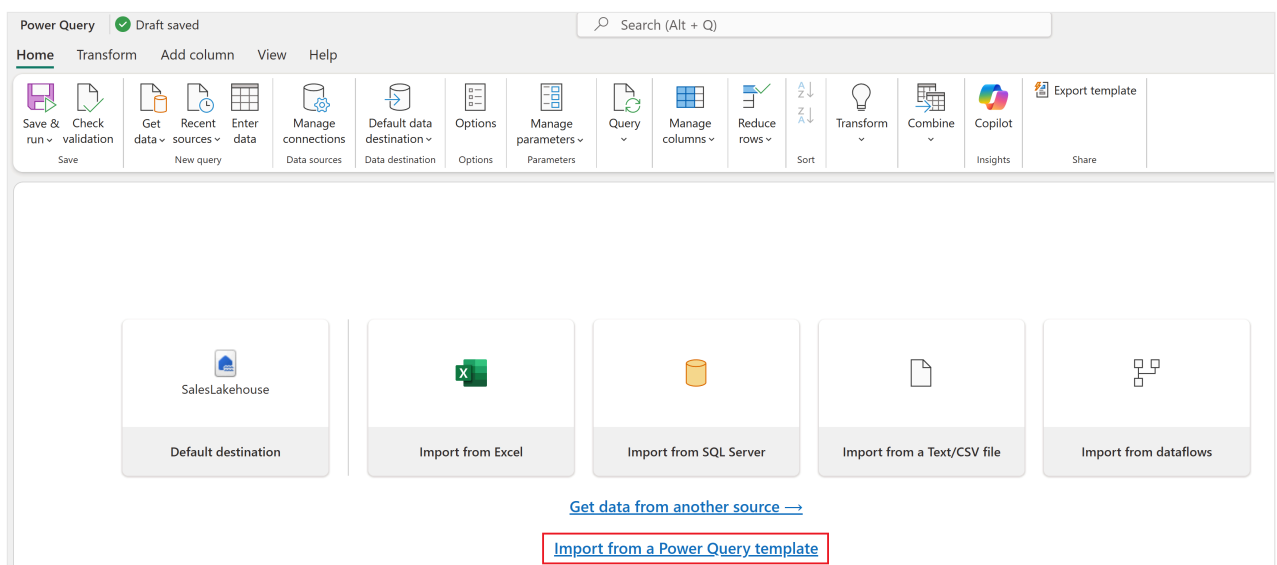
Alternatively, select *Get data* from the ribbon, then choose **New Dataflow Gen2**.



5. Name the dataflow **OnlineSalesDataflow** (use only letters, numbers, and underscores), then select **Create**.

## Prepare and load data into your lakehouse using Dataflows Gen2

1. In the **Power Query Online** editor for Dataflows Gen2, select **Import from a Power Query template** and choose the **ContosoSales.pqt** template file you downloaded in the [prerequisites](#).



2. Select the **DimDate** query under the **Data load** group. If prompted, select **Configure connection**, set authentication to **Anonymous**, and select **Connect**.
3. With **DimDate** selected, in the data preview, find the **DateKey** column. Select the data type icon in the column header and choose **Date/Time** from the dropdown.

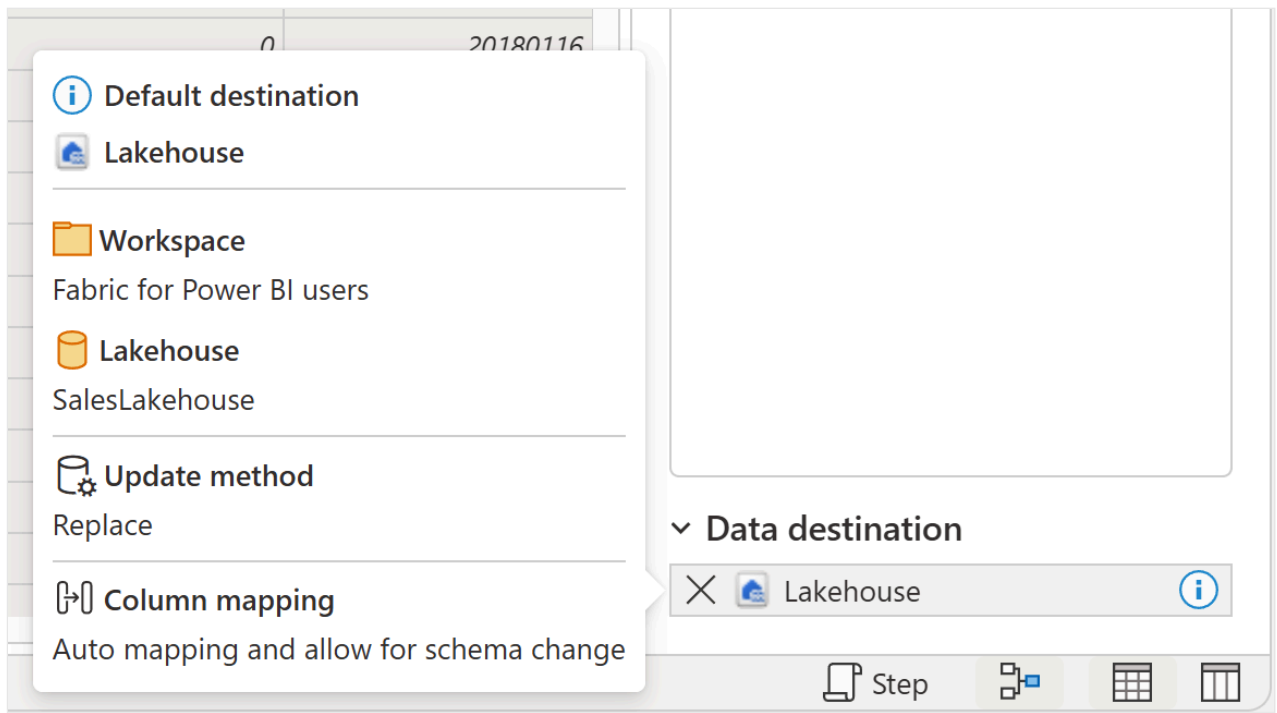
The screenshot shows the 'Queries [13]' pane on the left, organized into three groups: 'Data staging' (5 queries), 'Data load' (3 queries), and 'Data transformation' (3 queries). The 'DimDate' query is selected and highlighted with a red box. The data preview on the right shows a table with columns 'DateKey' and 'Day'. The 'DateKey' column header is selected, and a dropdown menu is open, showing various data types. The 'Date/Time' option is highlighted with a red box. The data preview shows rows with dates like '1/9/2018' and '1/10/2018'.

4. In the **Change column type** window, select **Replace current**.

## Configure data destinations

1. With **DimDate** selected, review the data destination settings in the bottom right. Hover over the configured Lakehouse to view its properties.

The Lakehouse you created is the destination for all tables. The default update method is **Replace**, which overwrites previous data during each refresh.



2. Select the **FactOnlineSales** table and review its data destination settings.

Because the **FactOnlineSales** source changes frequently, optimize refreshes by appending new data. Remove its current data destination by selecting the X icon. Do not remove destinations for other tables.

Query settings

Properties

Name: FactOnlineSales

Applied steps

- Source
- Changed column type

Data destination

- Lakehouse

Context menu:

- Default destination
- Lakehouse
- Workspace: Fabric for Power BI users
- Lakehouse: SalesLakehouse
- Update method: Replace
- Column mapping: Auto mapping and allow for schema change

3. With **FactOnlineSales** still selected, select the + icon to add a data destination, then choose **Lakehouse**.

If prompted, set authentication to **Organizational account** and select **Next**.

# Query settings



## Properties

Name

FactOnlineSales

## Applied steps

*fx* Source



ABC  
123 Changed column type

### Default destination



SalesLakehouse

### New destination



Lakehouse



Warehouse



SQL database

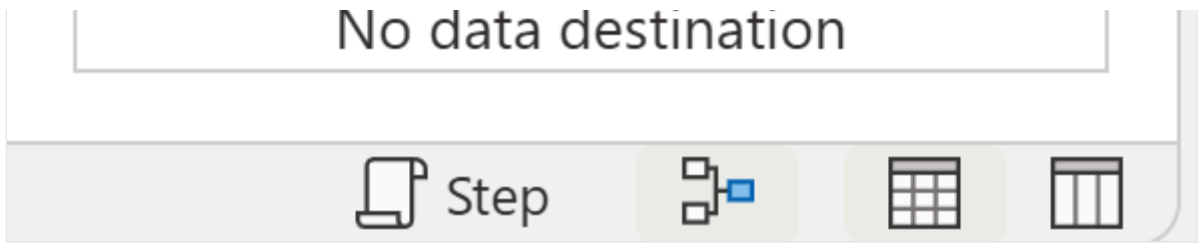


SharePoint (Preview)

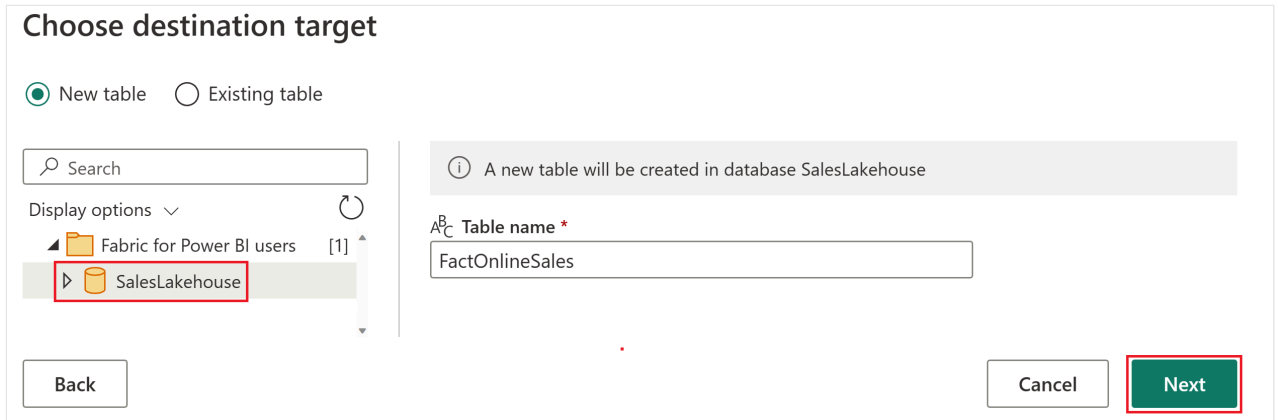
Add data destination  
More...

## Data destination





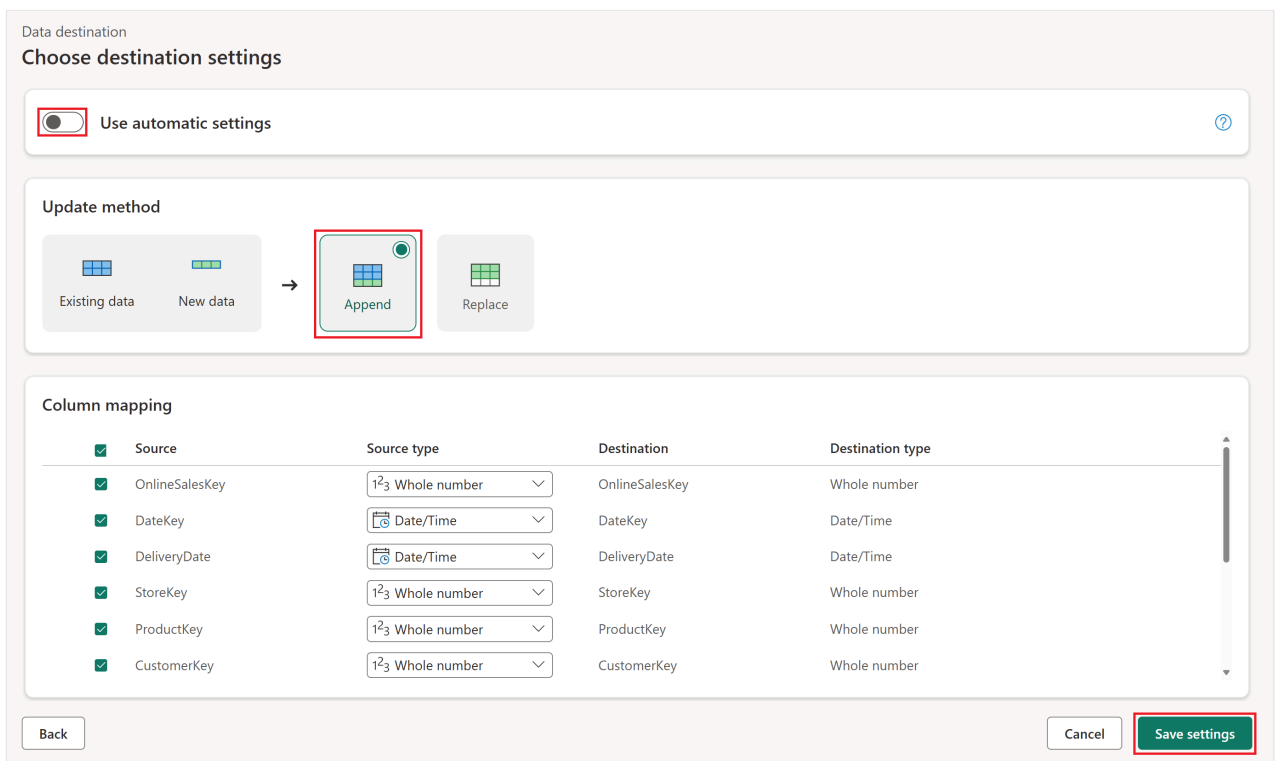
4. In the navigator, select your workspace and expand to view all **Lakehouse** items. Select **SalesLakehouse** and ensure **New table** is selected, then select **Next**.



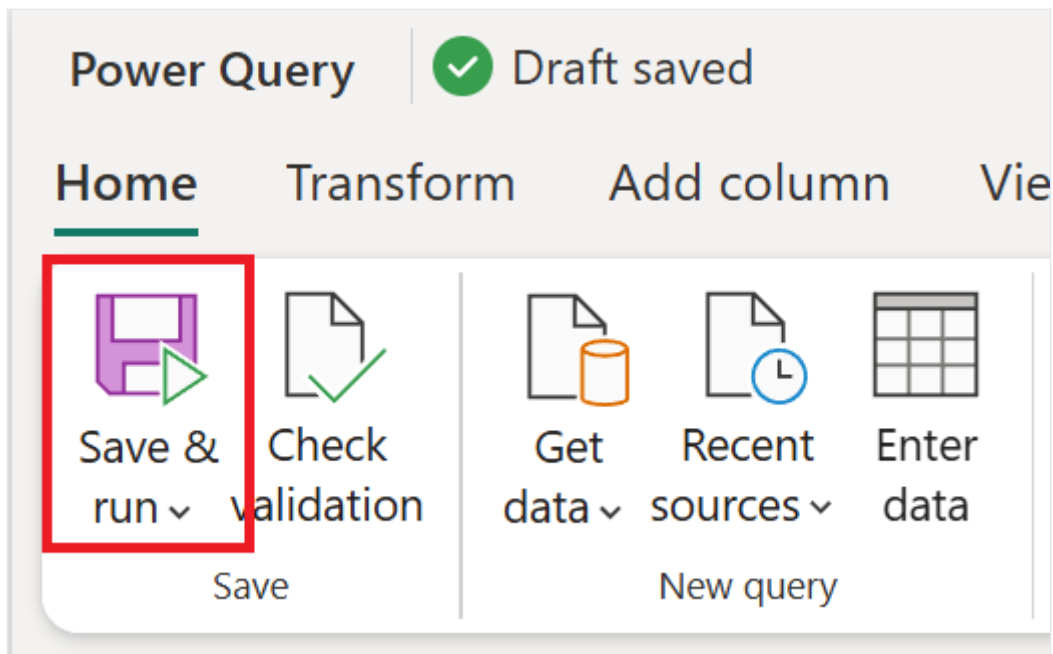
5. In the data destination settings panel, clear **Use automatic settings**, set **Update method** to **Append**, and select **Save settings**.

**Note**

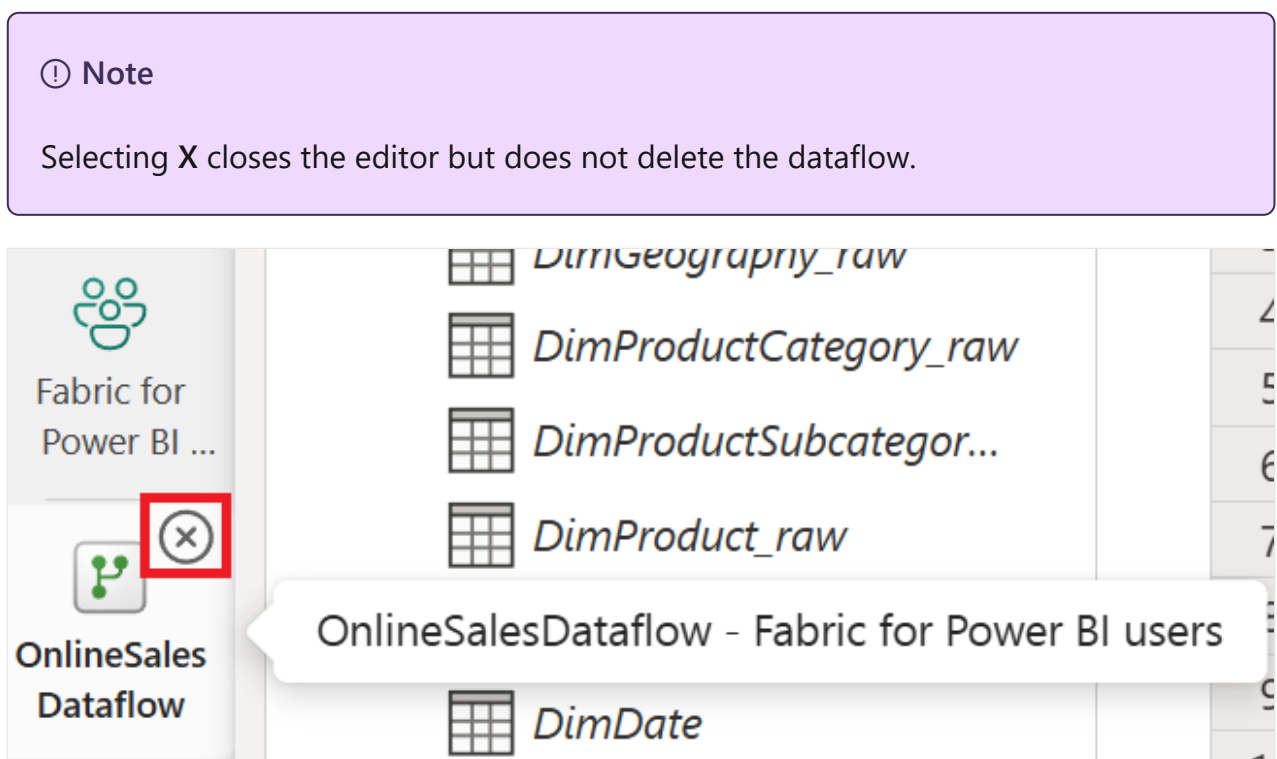
The **Append** method adds new rows to the table during each refresh, preserving existing data.



6. From the **Home** tab, select **Save & run**.





7. To exit the **Power Query Online** editor, select the **X** on the **OnlineSalesDataflow** item in the left side-rail.




## Orchestrate a data pipeline

Automate the refresh of your dataflow and handle errors by sending a customized Outlook email with key details.



1. In your workspace, select **New item**.

 **Fabric for Power BI users** 



**+ New item**  New folder → | **Import** ▾

2. On the **New item** creation screen, search for or select **Data pipeline**.

**New item** ×

 Favorites  **All items**  ×

**Get data**  
Ingest batch and real-time data into a single location within your Fabric workspace.

**Data pipeline**   
Ingest data at scale and schedule data workflows. 

3. Name the pipeline **SalesPipeline** and select **Create**.

**New pipeline** ×

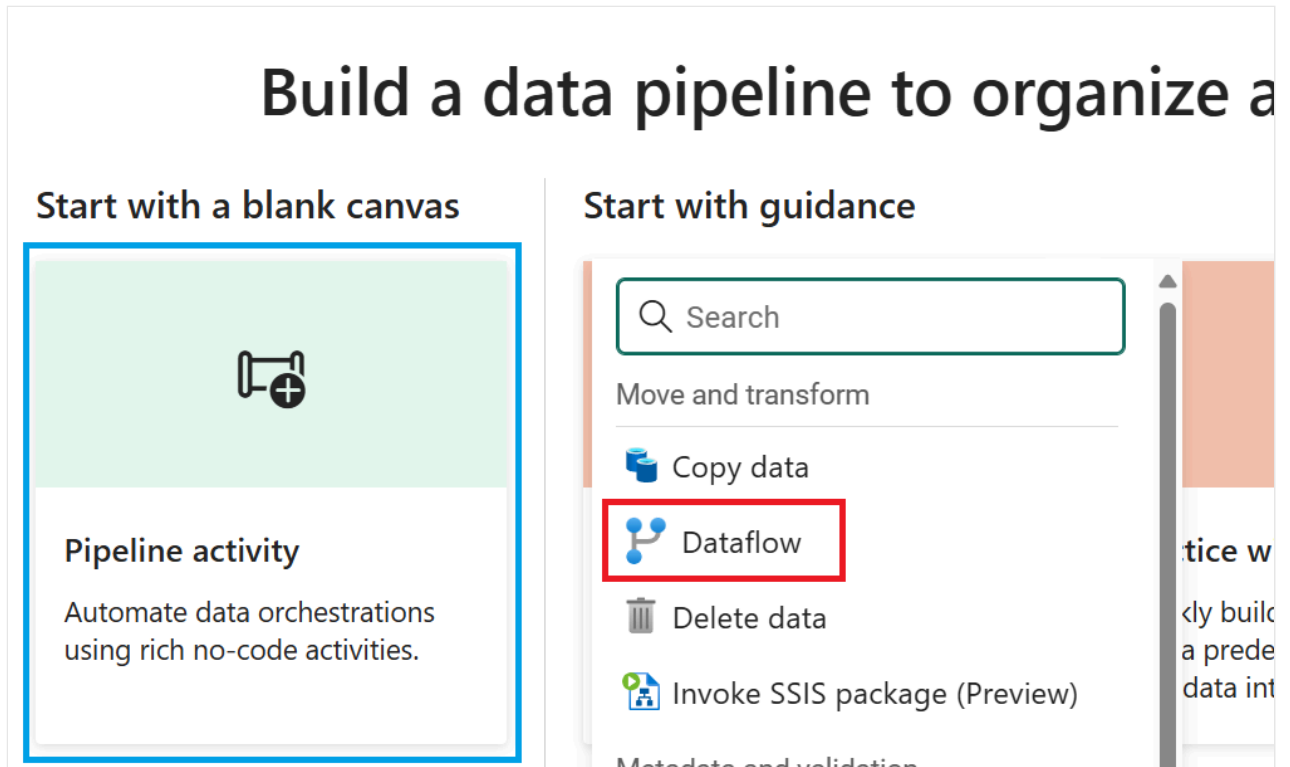
**Name**

**Create** **Cancel**

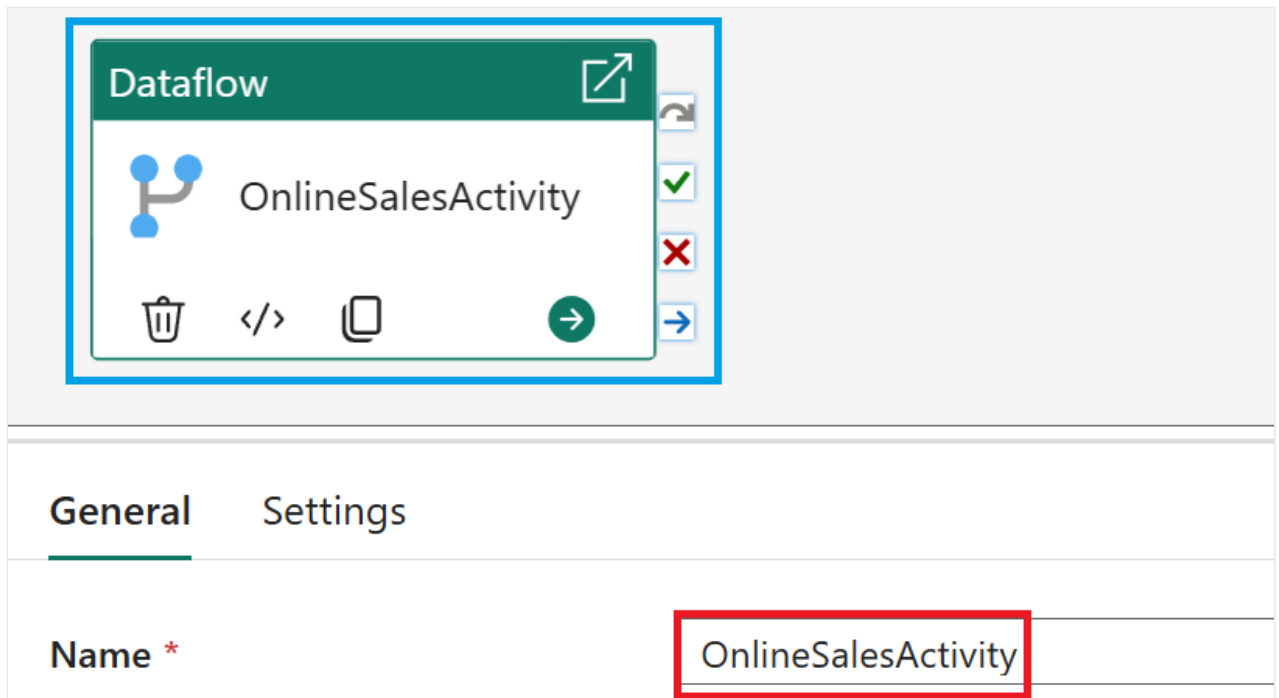
4. In the pipeline editor, select **Pipeline activity**, then choose **Dataflow**.

ⓘ Note

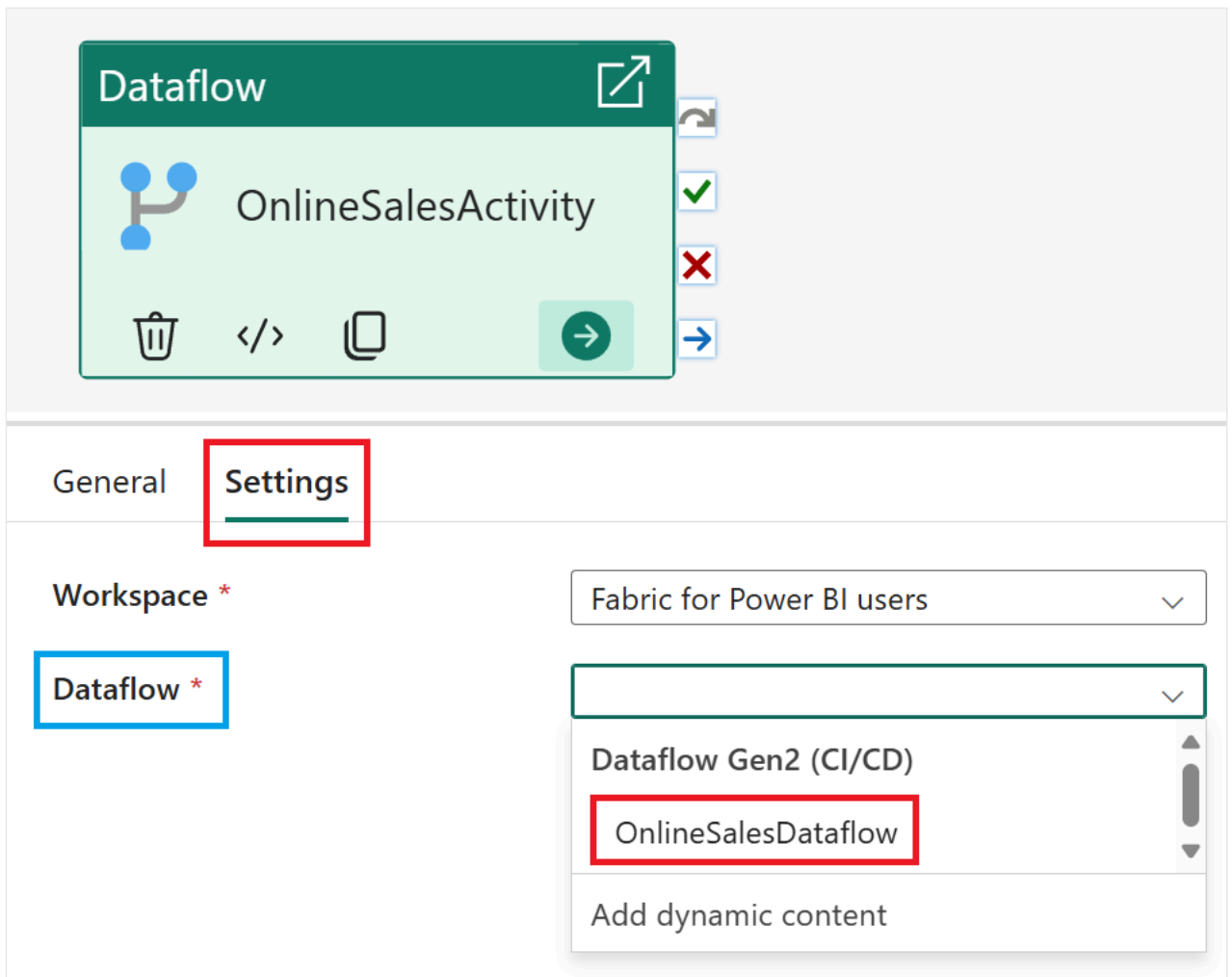
You can also select **Dataflow** from the ribbon.



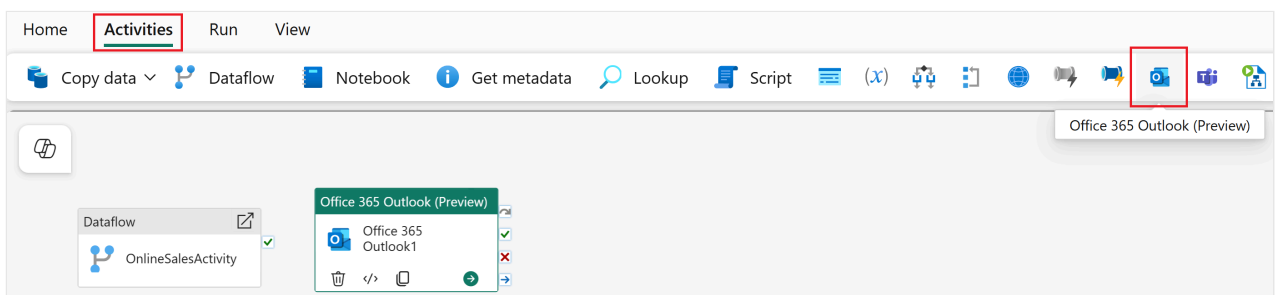
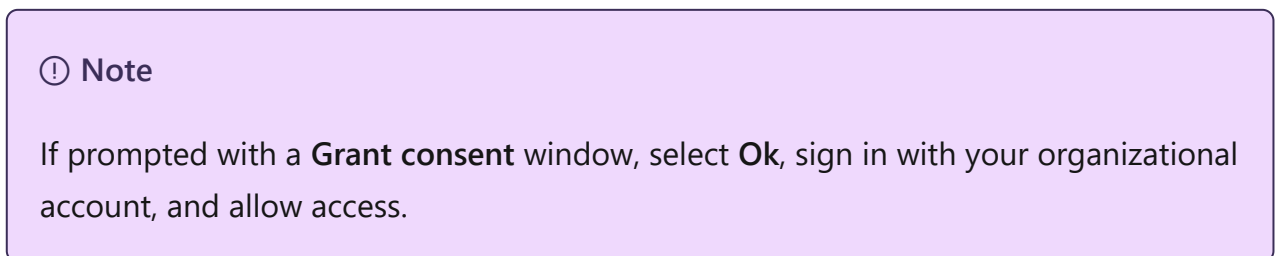
5. Select the dataflow activity in the pipeline editor. In the **General** section, set the **Name** to **OnlineSalesActivity**.



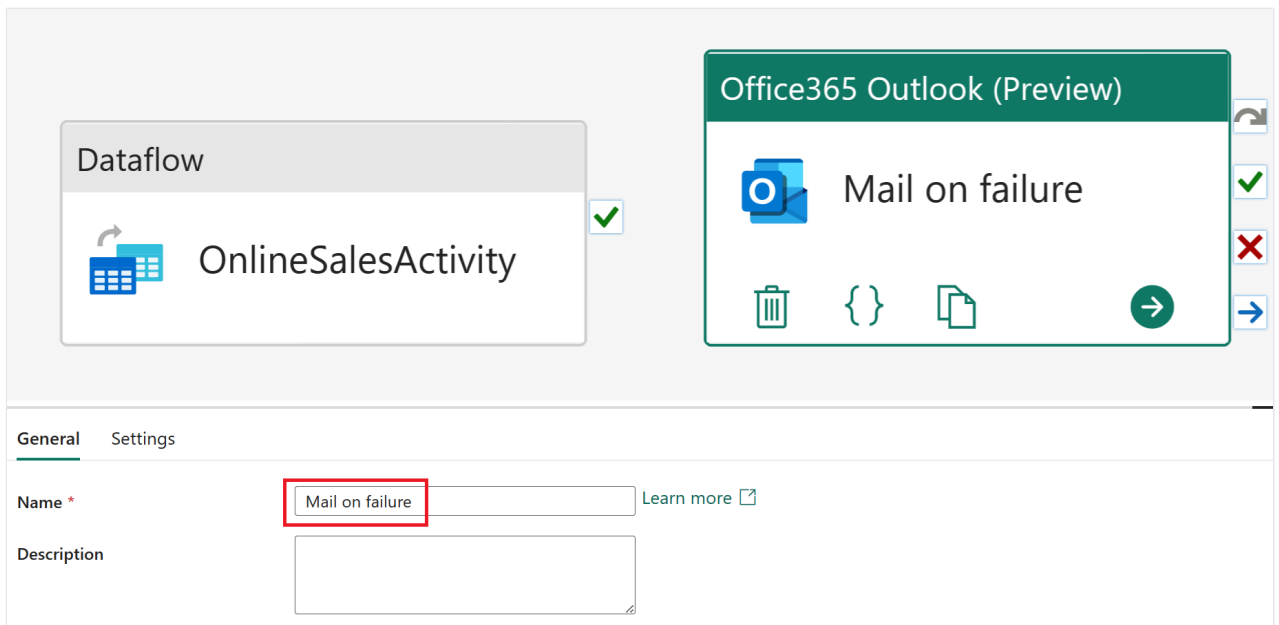
6. With the dataflow activity selected, go to **Settings** and choose **OnlineSalesDataflow** from the Dataflow list. If needed, select the **Refresh** icon to update the list.



7. Select the **Activities** tab, then add the **Office365 Outlook** activity.



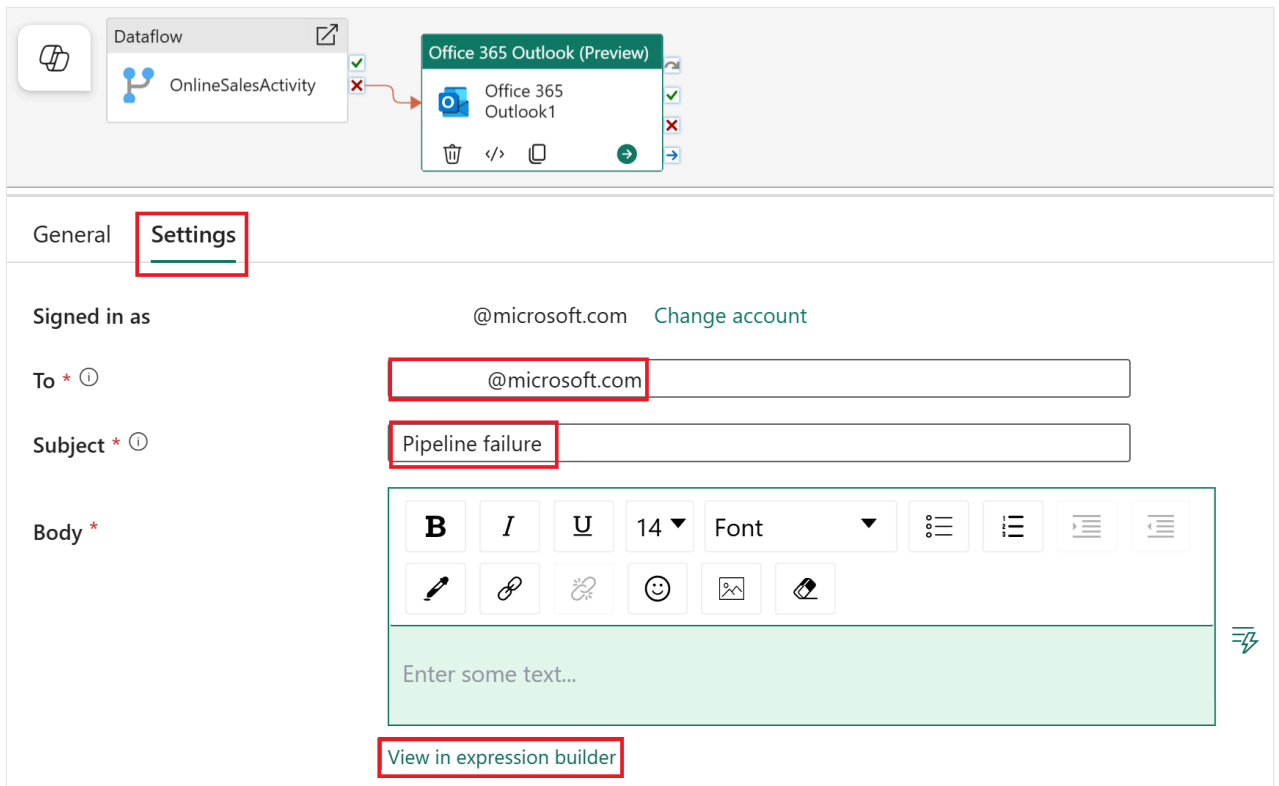
8. Select the **Office365 Outlook** activity in the pipeline editor. In the **General** section, set the **Name** to **Mail on failure**.



9. With the Office365 Outlook activity selected, go to **Settings**. Enter your email address in the **To** field and set the **Subject** to **Pipeline failure**. For the mail **Body**, select **View in expression builder**.

**Note**

Additional email options such as From (Send as), Cc, Bcc, and Sensitivity label are available under *Advanced properties*.



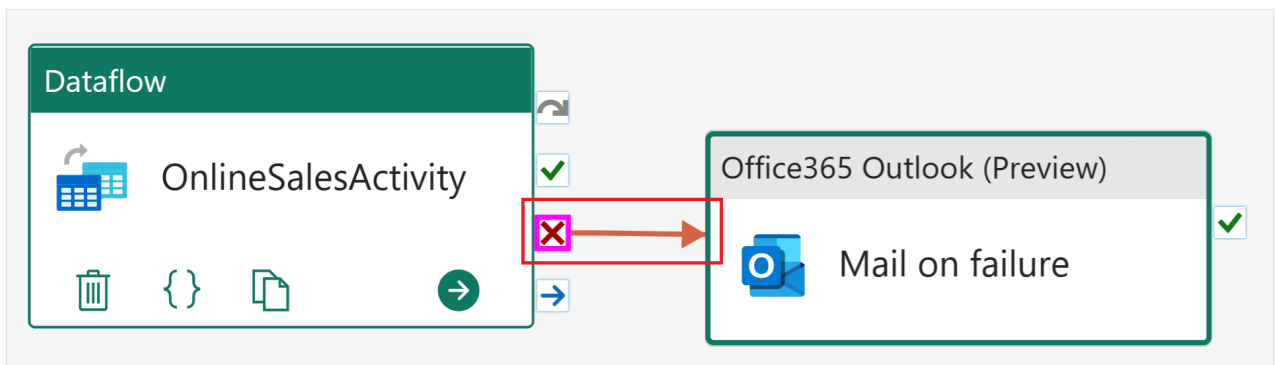
10. In the **Pipeline expression builder**, paste the following expression into the text block at the top of the page:

text

```
@concat(  
  'Pipeline: '  
  , pipeline().PipelineId  
  , '<br>  
  , 'Workspace: '  
  , pipeline().WorkspaceId  
  , '<br>  
  , 'Time: '  
  , utcnow()  
)
```

This expression dynamically inserts the pipeline ID, workspace ID, and the current UTC time into the email body.

11. In the pipeline editor, select **OnlineSalesActivity**. Drag from the "X" (**On fail**) handle and drop it onto the **Mail on failure** activity. This ensures the email is sent if the dataflow activity fails.



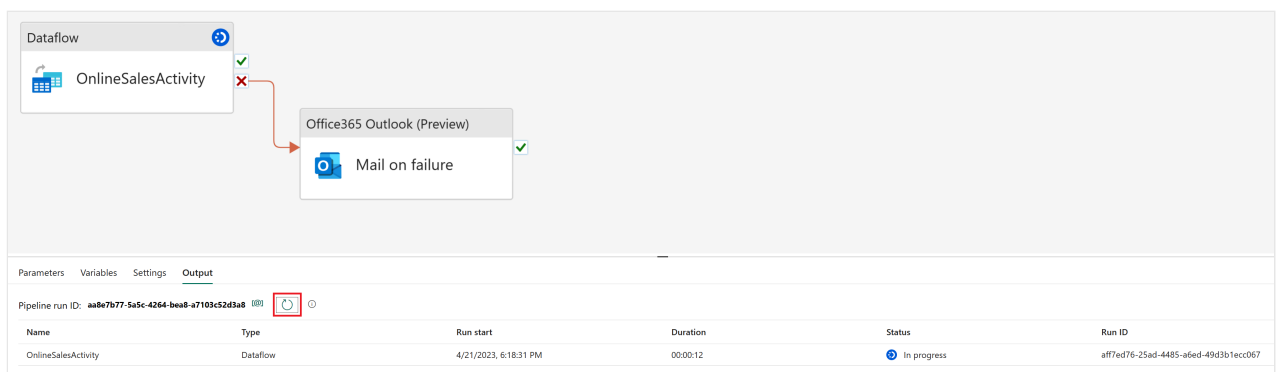
12. From the **Home** tab, select **Schedule**. Configure the schedule as follows, then select **Apply**:

[Expand table](#)

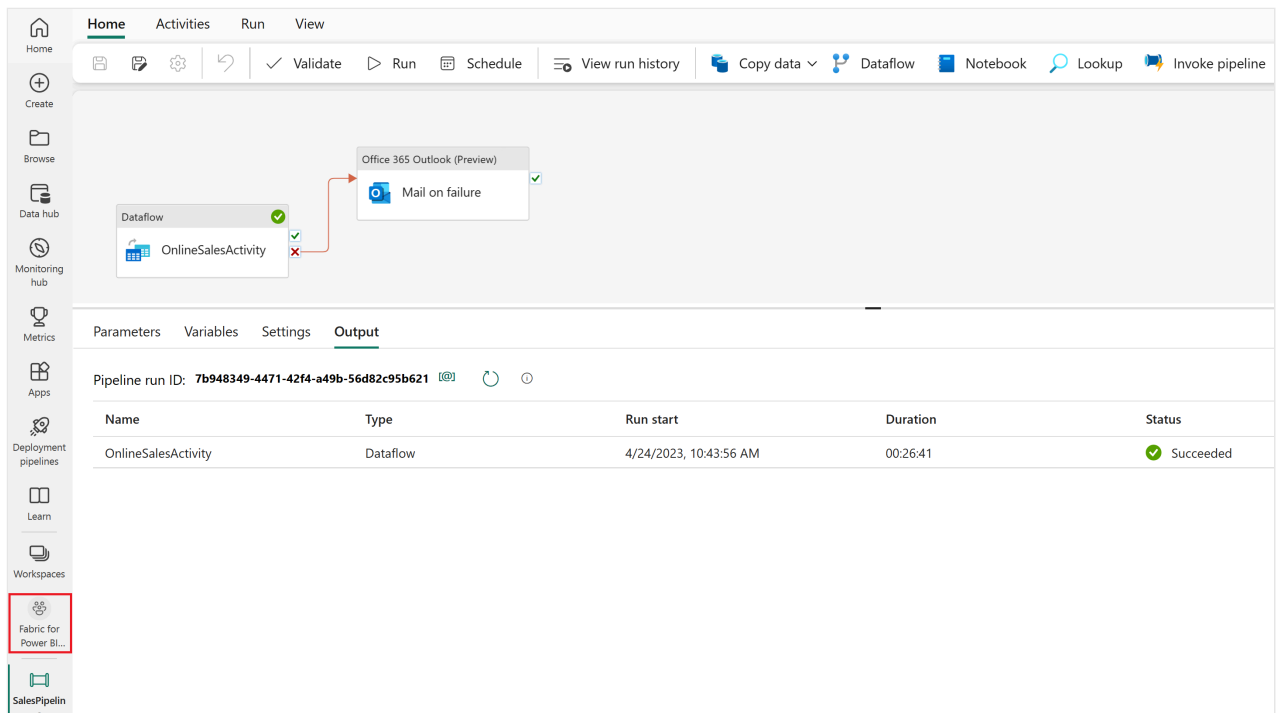
Name	Value
Scheduled run	On
Repeat	Daily
Time	12:00:00 AM

13. From the **Home** tab, select **Run**. If prompted, select **Save and run** to continue.

To monitor the pipeline's status, view the **Output** table, which displays activity progress. The table refreshes automatically, or you can select the refresh icon to update it manually.










14. When the status shows **Succeeded**, return to your workspace to continue with the tutorial.



## Create a semantic model in the Lakehouse

The data you loaded is almost ready for reporting. Next, use the tables in the lakehouse to create a semantic model—a metadata layer that organizes and transforms physical data into logical objects. The semantic model is designed to reflect your business structure and make the data easier to analyze.

1. In the workspace view, select the **SalesLakehouse** item.

	Name	Type	
	OnlineSalesDataflow	Dataflow Gen2 (CI/CD)	
	SalesLakehouse	Lakehouse	
		SalesLakehouse	Semantic model (default)
		SalesLakehouse	SQL analytics endpoint
	SalesPipeline	Data pipeline	

2. Once in the Explorer, from the **Home** tab select **New semantic model**.
3. In the New semantic model window, name your model **SalesModel**. Then, expand both the **dbo** schema and the **Tables** group. Select the following tables, and select **Confirm**:


 Expand table

Table name
DimCustomer
DimDate
DimEmployee
DimProduct
DimStore
FactOnlineSales

## New semantic model



Direct Lake semantic model name \*

A semantic model will be created in the chosen workspace with the selected tables in Direct Lake storage mode. You can then live edit the semantic model. [Learn more](#)

SalesModel

### Workspace

Only workspaces in a Fabric capacity are shown.

Fabric for Power BI users

Select or deselect tables for the semantic model.

Search

Select all

dbo

Tables

DimCustomer

DimCustomer\_raw

DimDate

DimEmployee

DimGeography\_raw

DimProduct

DimProduct\_raw

DimProductCategory\_raw

DimProductSubcategory\_raw

DimStore

FactOnlineSales

>  Views


Confirm

Cancel

## Create relationships


This model uses a star schema, common in data warehouses. The center of the star is a Fact table, surrounded by Dimension tables, which are related to the Fact table.

1. Create a relationship by dragging and dropping the **CustomerKey** column from the **FactOnlineSales** table to the **CustomerKey** column on the **DimCustomer** table.
2. In the **Create Relationship** window, ensure the following settings, then select **Confirm**:

 Expand table

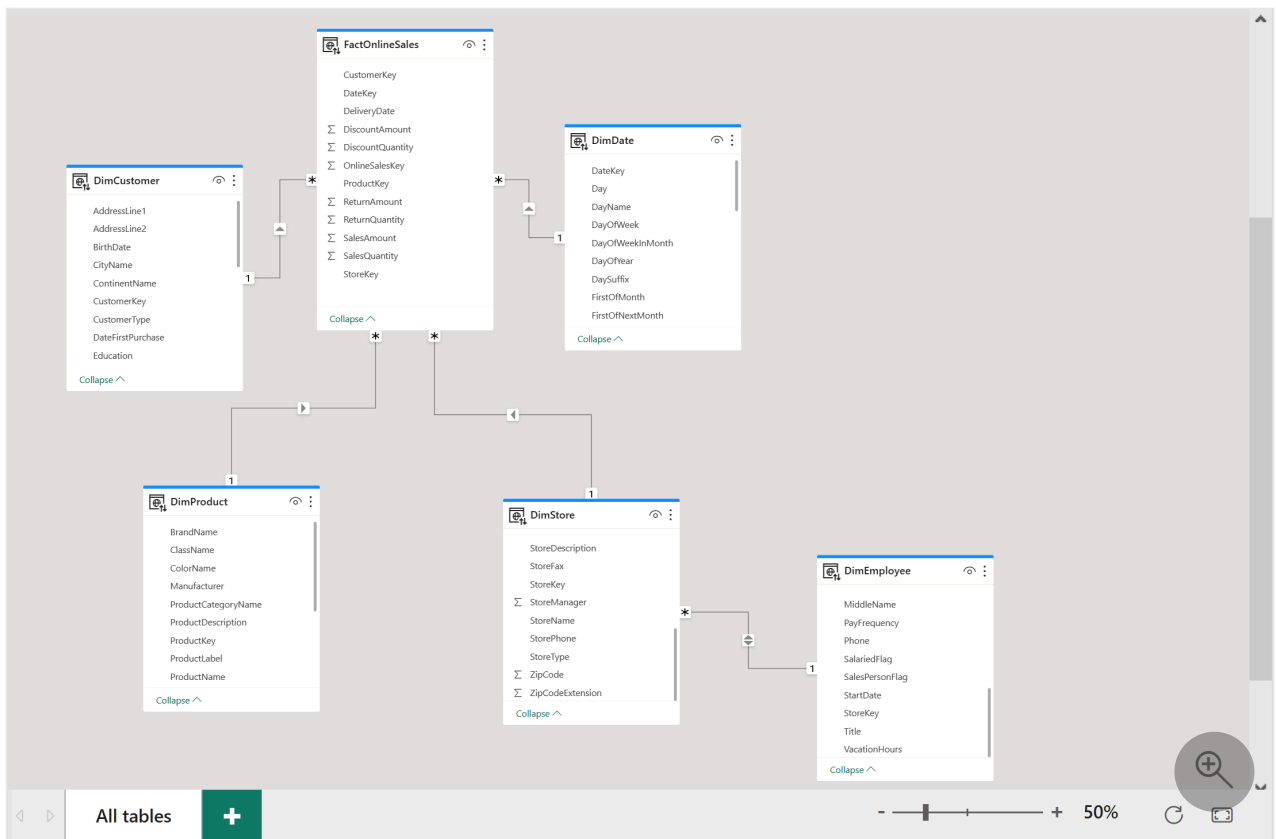
<b>Make this relationship active</b>	<b>From: Table 1 (column)</b>	<b>To: Table 2 (column)</b>	<b>Cardinality</b>	<b>Cross filter direction</b>
<input checked="" type="checkbox"/>	FactOnlineSales (CustomerKey)	DimCustomer (CustomerKey)	Many to one (*:1)	Single

3. Repeat these steps for each of the following relationships:

 Expand table

<b>Make this relationship active</b>	<b>From: Table 1 (column)</b>	<b>To: Table 2 (column)</b>	<b>Cardinality</b>	<b>Cross filter direction</b>
<input checked="" type="checkbox"/>	FactOnlineSales (ProductKey)	DimProduct (ProductKey)	Many to one (*:1)	Single
<input checked="" type="checkbox"/>	FactOnlineSales (StoreKey)	DimStore (StoreKey)	Many to one (*:1)	Single
<input checked="" type="checkbox"/>	FactOnlineSales (DateKey)	DimDate (DateKey)	Many to one (*:1)	Single
<input checked="" type="checkbox"/>	DimStore (StoreKey)	DimEmployee (StoreKey)	Many to one (*:1)	Both

The following image shows a finished view of the semantic model with all relationships included.



## Write a measure in DAX

Create a basic measure to calculate the total sales amount.

1. Select the **FactOnlineSales** table and on the **Home** tab, select **New measure**.
2. In the formula editor, enter the following DAX measure, then select the **check mark** to commit:

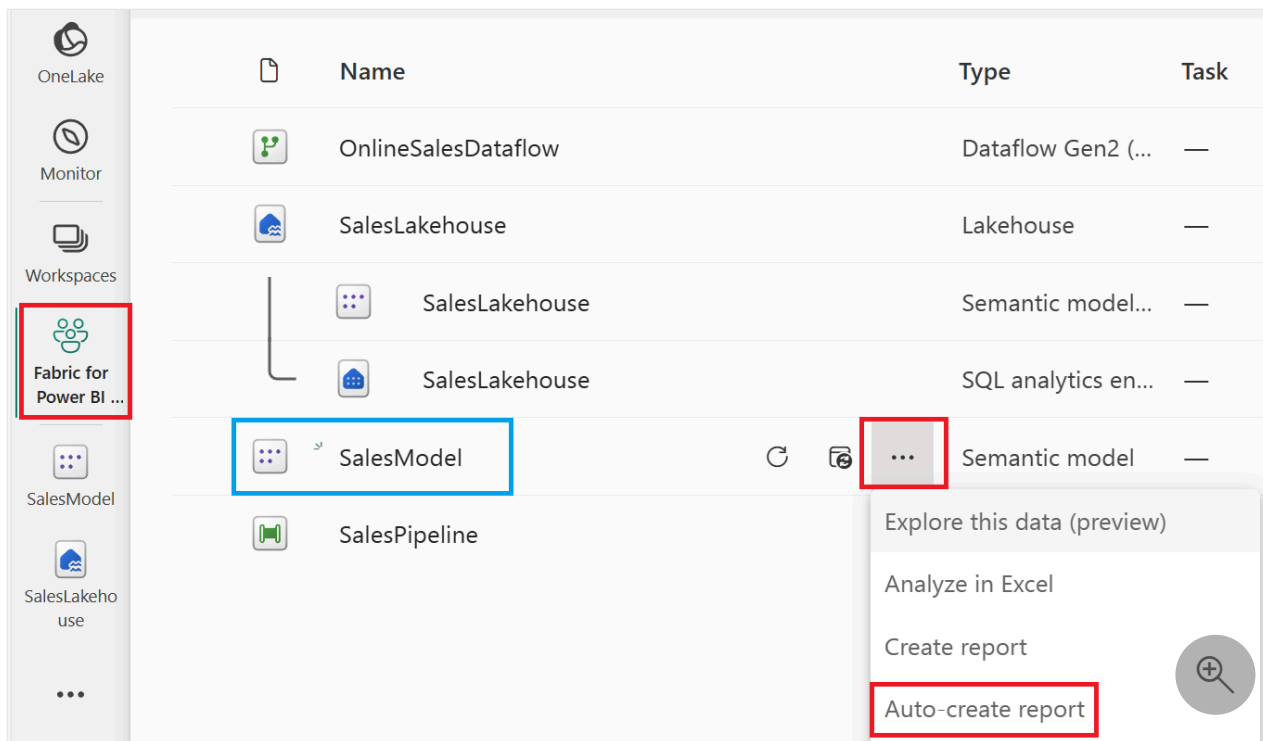
DAX

```
Total Sales Amount = SUM(FactOnlineSales[SalesAmount])
```

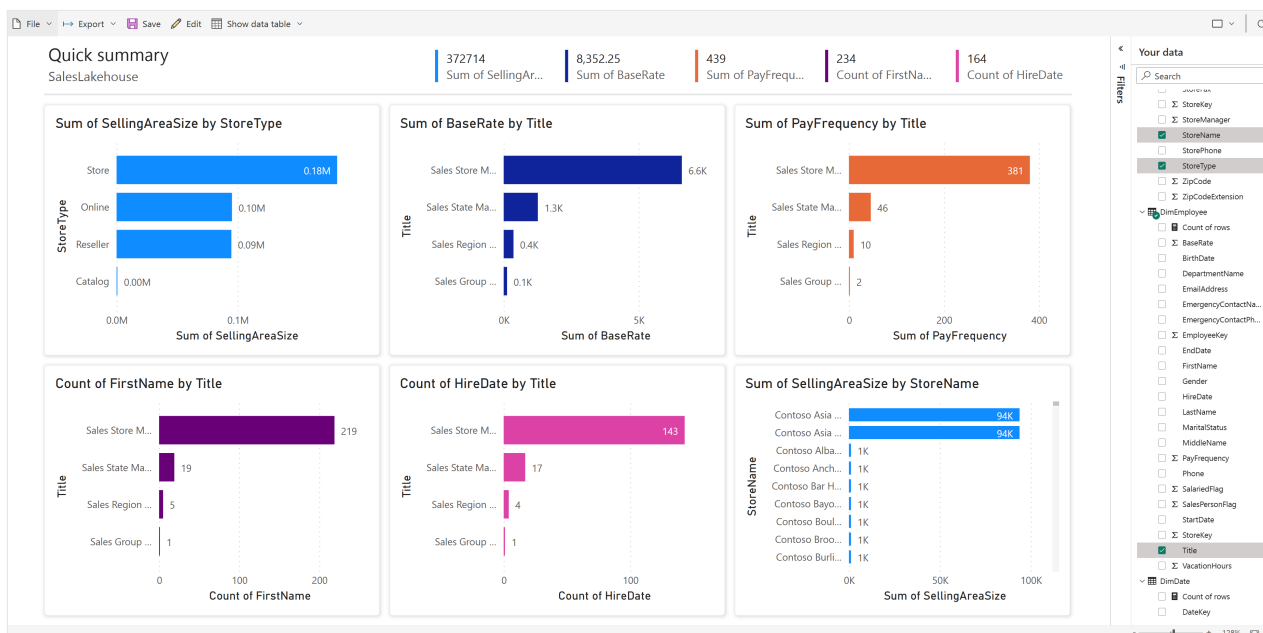
# Autocreate a report

Now that you've modeled your data, you can quickly visualize and explore it using quick create.

1. Return to your workspace by selecting it from the left side-rail. Hover over the **SalesModel** item, select the ellipses ( ... ), and choose **Auto-create report**.



A report is automatically generated and updates dynamically based on column selections in the **Your data** pane.



2. Select **Save** from the ribbon to save a copy to the current workspace.

**Note**

To enter the full visual authoring experience, select **Edit** on the ribbon.

Learn more about [quick create](#).

## Related content

Congratulations on completing the tutorial! If you created a dedicated workspace for this tutorial, you can now choose to delete it, or remove individual items created during the process.

This tutorial demonstrates how Power BI users can easily uncover insights at any scale using Microsoft Fabric.

ⓘ **Note:** The author created this article with assistance from AI. [Learn more](#)

# Sign up or purchase Power BI as an individual

09/30/2025

This article explains how individuals in an organization can sign up for or purchase Power BI when self-service is enabled, so they can analyze data and create visualizations **when self-service is enabled for their account by their organization.**

These *self-service* methods include upgrading to a paid license, starting individual trials, and getting free licenses if your organization allows self-service. If the term self-service is new to you, or if you're an administrator who manages self-service, visit these admin articles [What is self-service?](#) and [Self-service for Microsoft 365 products and services.](#)

If you're unable to sign up for Power BI or to purchase a Power BI individual license, it might be because your Microsoft 365 Billing administrator disabled self-service options. Ask them to [enable self-service sign-up and self-service-purchase.](#)

## Important

Signing up for the Power BI service requires a work or school email account. Consumer email accounts (for example, gmail or hotmail) can't be used.

If you don't see a way to sign up or start a trial, common reasons are:

- Your organization's administrator disabled self-service sign-up or purchase.
- You're using a personal/consumer email account instead of a work or school account.
- You already have a license (so "Start free" or "Start trial" prompts no longer appear).
- Trial eligibility was already used on your account. For detailed troubleshooting, see the [self-service licensing and trial FAQ](#).

## Quickstart: Get a license in a few minutes

Use one of these fast paths to obtain an initial individual license (typically Fabric [Free]) or start an upgrade. Later sections cover additional trial and purchase variations.

 Expand table

Option	How to Start	Steps	Outcome
<b>Published button</b>	Go to the <a href="#">Power BI website</a> and select <b>Start free</b> (may appear as <b>Try free, Start a free trial, or Buy now</b> )	<ol style="list-style-type: none"> <li>1. Sign in with your work or school account.</li> <li>2. If recognized, you are assigned a Fabric (Free) license and land on <b>Home</b>.</li> </ol>	Assigned Fabric (Free) license
<b>Shared link in email</b>	Open the email and select the shared dashboard, report, or app link	<ol style="list-style-type: none"> <li>1. First-time access triggers license evaluation.</li> <li>2. A free (or sometimes paid) license is assigned depending on organizational settings.</li> </ol>	License assigned based on org settings
<b>In-product upgrade prompt</b>	While on a Fabric (Free) license, select a feature that requires a paid license	- In the prompt choose <b>Start trial</b> or <b>Buy now</b> .	Start trial or purchase license
<b>Account manager</b>	Select your profile (account manager) in the upper-right corner	<ol style="list-style-type: none"> <li>1. Review <b>License type</b>.</li> <li>2. Select <b>Buy now</b> or <b>Start trial</b> (if shown).</li> </ol>	Start trial or purchase license

If a Fabric (Free) license meets your needs, you can work in **My workspace** and consume content in Premium capacity. Otherwise, continue with the trial or purchase sections below.

## Why you might not see sign-up or trial options

You may not be able to sign up individually if:

- Self-service sign-up or purchase is disabled by an administrator.
- You're signed in with a personal (consumer) email account.
- You already hold an applicable license (the "Start free" or "Start trial" prompts are suppressed).
- Your prior trial period ended and isn't extendable.

### ⓘ Note

For deeper troubleshooting (blocked sign-up, trial prompts not showing, capacity vs PPU, license capability differences) see the [self-service licensing and trial FAQ](#).

## Look up your current license or trial

You might already have a Power BI license or trial. To look up your license type, see [licenses and trials](#).

For example, your organization might provide you with Microsoft 365. Some versions of Office 365 include Power BI Pro licenses.

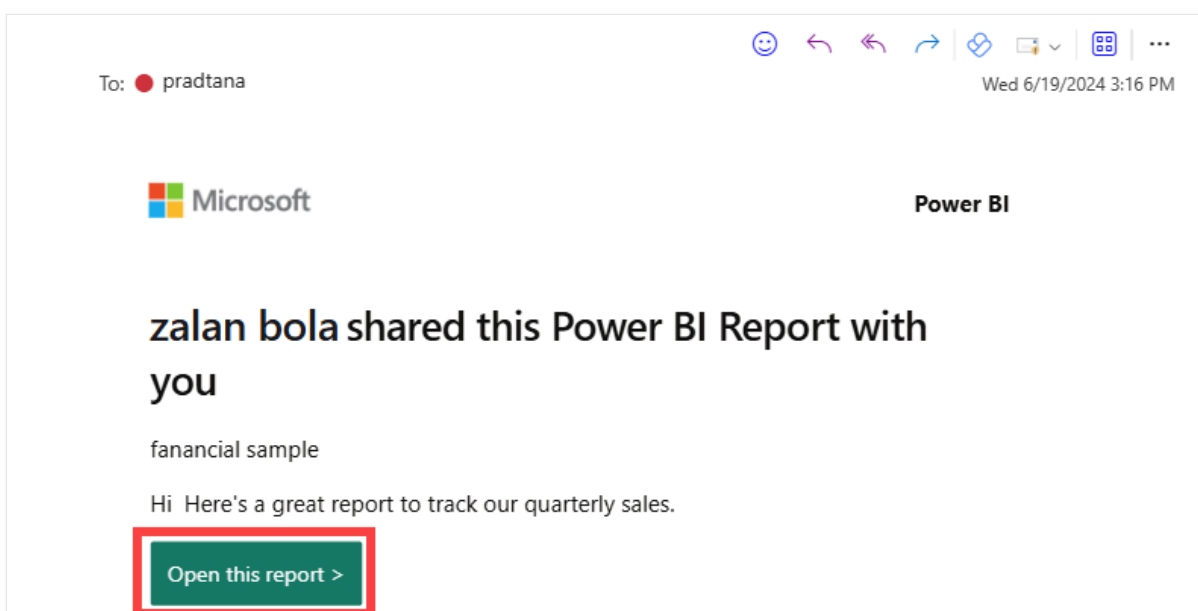
## Sign-up options

Free sign-up

### Sign up for a free license

If your organization purchased a Power BI subscription and self-service is enabled for your account, you can sign up by:

1. Opening Power BI in a browser (app.powerbi.com).
2. Selecting a **Try for free** type of button.
3. Selecting a Power BI link in an email. Colleagues share Power BI items in email. If you never opened Power BI before, selecting one of these links initiates signing up for a license.



All of these actions sign you up for a per-user license and open the Power BI service in a browser. The type of license assigned to you depends on your organization's subscription and self-service settings. To learn more about the types of licenses, see [Power BI license types](#).

If the Power BI service doesn't open or if you receive an error message, your organization might not have a Power BI subscription **or self-service might be disabled**. See [Email validation](#) and, if self-service is disabled, contact your administrator to request a license.

# Email validation

The first time you attempt to sign up for a license, Microsoft asks for your email address.

If your organization didn't purchase Power BI, you're redirected to a sign-up process. This alternate sign-up process creates an account and possibly even creates a new tenant.

## You've selected Microsoft Fabric free

### 1 Let's get you started

Looks like you need to create a new account.

Microsoft Fabric free is designed to be used by people collaborating within an organization, so your email will be visible to others who also use `zalan@contoso.com` email addresses to sign up

For that reason, emails from shared email services like outlook.com should not be used.

What kind of email is `zalan@contoso.com`?

I got it from my organization

It's my personal email

Next

By Freeceeding you acknowledge that if you use your organization's email, your organization may have rights to access and manage your data and account.

[Learn More](#)

### 2 Create your account

### 3 Confirmation details

For more information about creating a Microsoft account, see [How to check if your email address is a Microsoft account](#) [↗](#)

# Power BI self-service licensing and trial FAQ

09/30/2025

This FAQ helps you quickly diagnose and resolve problems when trying to sign yourself up for the Power BI service, start (or extend) a trial, or purchase/upgrade an individual per-user license (Fabric [Free], Power BI Pro, or Power BI Premium Per User [PPU]). It focuses on the most common blockers in self-service flows: organizational policies that disable trials or purchases, email/tenant validation behaviors, license capability differences, Premium (capacity) versus PPU workspace access, and trial lifecycle changes.

## Sign-up and account access

### What do I do if I see a message that self-service is disabled?

When you attempt a self-service sign-up, trial, or purchase for a Power BI license, it fails with a message that self-service is disabled. Some organizations block self-service sign-up, trials, and purchases so IT can centrally manage all licenses, including free ones. To finish your purchase, contact your IT department or help desk and ask them to [follow these instructions to provide you with a license](#).

### What do I do if my license-request process looks different than the documentation?

Some organizations set up their own process for requesting trials, upgrades, and licenses. Follow the steps your organization suggests when requesting a license.

### How do I use self-service if I'm the administrator of a tenant?

If you used self-service purchase or signed up for a Fabric capacity trial, you receive limited Microsoft 365 admin center access. Use it to view and manage self-service licenses, trials, and purchases. See [Manage self-service purchases and trials \(for users\)](#).

### Why can't I use a personal email (Gmail, Hotmail, Outlook.com) to sign up?

Self-service sign-up requires a work or school account. Consumer email domains aren't accepted for Power BI service sign-up.

## Why did a link start sign-up or redirect me to create a new tenant?

Selecting a shared dashboard, report, or app link for the first time can trigger license assignment if self-service is enabled. If your organization hasn't purchased Power BI and your domain isn't already enabled, the email validation flow may route you to an alternate sign-up that provisions an account (and sometimes a new tenant).

## Why am I asked for a credit card when signing up another way?

Signing up through a Microsoft 365 (Office 365 E5) trial to obtain an *onmicrosoft* account and tenant requires a credit card. Cancel before the trial ends if you don't intend to purchase.

## License discovery and basics

### How do I find out which license I already have?

Open the Power BI service ([app.powerbi.com](https://app.powerbi.com)) and select your profile picture (account manager). For more detail select **View account** > **Subscriptions**.

### Can I have more than one license at the same time?

Yes. The service provides capabilities equal to the most permissive applicable license you have.

### What does a Fabric (Free) license allow me to do?

You can create and view content for yourself in **My workspace** and consume content shared from a workspace in Premium (Fabric F64 or greater) capacity. You can't share your own content or collaborate in non-Premium workspaces.

### Why does my Fabric capacity trial show but my license still says Fabric (Free)?

A Fabric capacity trial grants elevated capabilities similar to PPU while active; your underlying per-user license can still display as Fabric (Free).

### Why doesn't my free license expire?

Fabric (Free) licenses obtained through self-service remain available unless canceled or removed by an administrator.

## **Why don't I see Buy now in my account manager?**

Your organization might have disabled self-service purchase or you already have an equal or higher paid license, removing the need for that option.

## **Trials and upgrades**

### **Why don't I see a trial or upgrade prompt (but others do)?**

Your organization may have disabled self-service trials or purchases, or you already hold an active paid or trial license. Trial eligibility and prompts also depend on your existing license state and admin settings.

### **Can I extend my trial (and what if I can't)?**

Some trials can't be extended. When a nonextendable trial ends, you must purchase or be assigned a paid license to continue paid features.

### **What happens when my trial ends?**

Your license reverts to the previous state (for example, back to Fabric (Free) or Pro) and you lose access to features that require the higher-tier license unless you purchase or are assigned one.

### **Why did starting a trial change what I can see in workspaces?**

Trials (for paid per-user or Fabric capacity) unlock features such as sharing, collaboration, and Premium capabilities previously unavailable under Fabric (Free).

### **Why did I lose access to editing or sharing features?**

Your trial or paid license may have expired or been removed, reverting you to Fabric (Free). You need a Pro or PPU license (or an active Fabric capacity trial) to regain those capabilities.

### **How can I get Premium Per User–like capabilities without immediately purchasing PPU?**

Start a Fabric capacity trial. The trial capacity includes a license with capabilities similar to a Premium Per User license during the trial period.

## Sharing and collaboration

### Why do I still see upgrade prompts or can't share/publish content?

You are using features that require a paid (Pro or PPU) license while signed in with only a Fabric (Free) license, or you lack the necessary license for the capability. Sharing and publishing to app or shared workspaces require a paid license unless you are only consuming content in Premium capacity.

### How do I enable colleagues with free licenses to view my content?

Store content in a workspace assigned to Premium (Fabric F64 or greater) capacity and grant them a workspace role or app access. Free users prompted to upgrade are either accessing non-Premium content or lack permissions.

## Premium, PPU, and workspace access

### How do I know if a workspace is in Premium capacity?

In the **Workspaces** list a diamond icon marks a workspace (and associated apps) in Premium (Fabric F64 or greater) capacity.

### Why am I blocked or seeing upgrade prompts in a PPU workspace when I have Pro?

PPU workspaces require all participants to have PPU licenses (unless the workspace is moved to Premium capacity). A Pro license alone doesn't grant access to PPU-only features, and lacking a required workspace role can also block access.

## Ending or canceling

### How do I end, cancel, or close my account or trial?

Follow the documented close, cancel, or end procedures referenced from related sign-up and purchase articles to terminate a trial or subscription.

## Related content

- [Power BI features by license type](#)
- [Self-service for Power BI](#)

ⓘ **Note:** The author created this article with assistance from AI. [Learn more](#)

# Power BI service features by license type

## ⓘ Note

The Power BI service is available as a standalone service and as a service that is integrated with [Microsoft Fabric](#). Administration and licensing are integrated with Microsoft Fabric.

Power BI service features vary by license. There are three per user license types: Fabric (Free), Power BI Pro, and Power BI Premium Per User (PPU). The license you need depends on where the content is stored, how you interact with it, and whether it uses Premium (capacity) features. Another license type is a capacity license (Fabric F SKUs or Power BI Premium P SKUs). Pro and PPU users who have access to a capacity (Fabric F64+ or Power BI Premium (P)) can create content in workspaces assigned to that capacity and grant colleagues, including free users, access to those capacity workspaces. Premium Per User (PPU) unlocks most Premium features per user without requiring the workspace itself to be on a dedicated capacity.

## ⓘ Note

A Premium Per User (PPU) workspace isn't the same as a Premium capacity workspace.

## Sign up for a license

There are several ways to begin using the Power BI service and Fabric.

- If you already have a Microsoft 365 subscription, [check whether that subscription includes a Power BI and Fabric license](#).
- If your [administrator purchased an organizational subscription](#), go to [app.powerbi.com](https://app.powerbi.com) to check your license.
- If you're not ready to buy, start a [Fabric capacity trial](#). The trial capacity includes a license similar to PPU.
- If you're signing up as an individual in an organization and your administrator didn't assign you a license, [use self-service signup to try or buy](#) Power BI or Fabric.
- If you don't have Microsoft 365 or a Power BI license, [sign up for a Microsoft 365 Office 365 E5 trial](#).

## Power BI service licenses

There are licenses that apply to an individual (per-user) and a license (often also referred to as a *subscription*) that applies to the type of storage capacity that an organization purchases. Each

of the three per-user licenses is unique, and each grants access to certain Power BI service features and capabilities. The combination of per-user license and capacity determines the features and capabilities available to you. Just a few of those capabilities are sharing, collaborating, and editing.

## Free per-user license

Users with free licenses can use the Power BI service to connect to data and create reports and dashboards for their own use. They can't use the Power BI sharing or collaborating features with others, or publish content to other people's workspaces. However, Pro and PPU users can share content and collaborate with free users if the content is saved in workspaces hosted in Premium capacity, Fabric F64, or greater capacity. To learn more about workspaces, see [Types of workspaces](#). To learn more about features available to users with a free license, see [Power BI service feature list](#).

## Pro license

Power BI Pro is a per-user license that lets users create, read, and interact with content that others publish to the Power BI service. Users with this license type can share content and collaborate with other Power BI Pro users. Only Power BI Pro users can publish, share, or consume other Pro users' content unless it resides in a Power BI Premium capacity. If a Power BI Premium capacity hosts the content, Pro users can also share and collaborate with free and PPU users.

## Premium per user (PPU) license

A PPU per-user license provides all Power BI Pro capabilities plus most Premium capacity features. A Power BI PPU license adds features and content available only with a paid license. Access is limited to people who also have a PPU license. For example, to collaborate and share content in a PPU workspace, all users need a PPU license.

With a PPU license, you can share content only with users who also have a PPU license. The exception is when that content is saved in a workspace hosted in Premium capacity. The table summarizes the basic capabilities of each license type.

## Premium capacity

A capacity-based Premium license (often called a Premium *subscription*) lets Pro or PPU users create and save content in Premium capacity workspaces. They can then share content in that workspace with colleagues who have any license type. Only users with a Pro or PPU license can

create and save content in Premium capacities, and only if their organization purchased Premium capacity.

Learn more about capacity options in [Microsoft Fabric capacity licenses](#).

 Expand table

License type	Capabilities when workspace is in shared capacity	Extra capabilities when workspace is in Premium capacity
Fabric (free)	Access content they create for themselves	Consume content shared with them by Pro or PPU users
Power BI Pro	Publish content to other workspaces, share dashboards, subscribe to dashboards and reports, share with users who have a Pro license	Distribute content to users who have free or PPU licenses
Power BI Premium Per User (PPU)	Publish content to other workspaces, share dashboards, subscribe to dashboards and reports, share with <i>users who have a PPU license</i>	Distribute content to users who have free and Pro licenses

For a comparison of Power BI Pro and Power BI Premium, see the *Power BI features comparison* section of [Power BI pricing](#).

To learn more about the capabilities your license provides, see [Feature availability for users with free licenses](#) and [Types of licenses for Power BI consumers](#).

## Related content

- [Sign up for the Power BI service as an individual](#)
- [Comparing Power BI Desktop and the Power BI service](#)

 **Note:** The author created this article with assistance from AI. [Learn more](#)

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Last updated on 11/03/2025

# Licenses and subscriptions for business users

**APPLIES TO:**  Power BI service for **business users**  Power BI service for designers & developers  Power BI Desktop  Requires Pro or Premium license

As a **business user**, you use the Power BI service to explore reports and dashboards so you can make data-backed business decisions. If you've used Power BI for a while, you probably notice that some features only work if you have a certain type of license, subscription, or permissions.

What you can do in the Power BI service depends on three things:

- The type of license and subscription you use
- The type of workspace that stores the content
- The roles and permissions you have in a workspace



This article describes the capabilities of each license type and how the location where content is stored affects what you can do with it. You learn how to check your license and subscription information, and find where your content is stored. For more information about workspace *roles* and *permissions*, see [Collaborate in workspaces](#).

# Licenses

Each user of the Power BI service has a *free* license, a *Pro* license, or a *Premium per-user (PPU)* license. If you're a Power BI business user, you're probably using a free license managed by your Power BI admin.

You can have more than one license at the same time. The service gives you the experience of the most permissive license you have.

## ⓘ Note

You need a paid license, either [Power BI Pro](#) or [Premium Per User \(PPU\)](#), to publish content to a Power BI app workspace, edit content, and share content with others.

For details about licenses and subscriptions, see [License types for Power BI and Fabric](#).

## Power BI Premium capacity subscription

Premium is an organizational subscription that lets you store content in a virtual container called a Power BI Premium capacity. With Premium capacity, anyone with permissions, whether they're inside or outside your organization, can use content stored in this virtual container. This use includes users with free licenses.

Premium capacity lets users with paid licenses share content widely without needing paid licenses for people who view the content. The person who creates content in Premium capacity uses a paid license to connect to data sources, model data, and create reports, dashboards, and apps that are saved to a workspace in Premium capacity. Users without a paid license can use a workspace in Power BI Premium capacity, as long as they have a [role in that workspace](#).

## ⓘ Important

For free users to access reports, both the report and its underlying semantic model must be in Premium capacity. If the report is in Premium capacity but the semantic model is in a workspace that isn't in Premium capacity, free users will receive a prompt to upgrade their license to Pro, PPU, or a trial.

When users with a free license try to use a workspace in Premium capacity, and they aren't assigned a role in that workspace, they see a prompt to upgrade their license to Pro, PPU, or a trial.

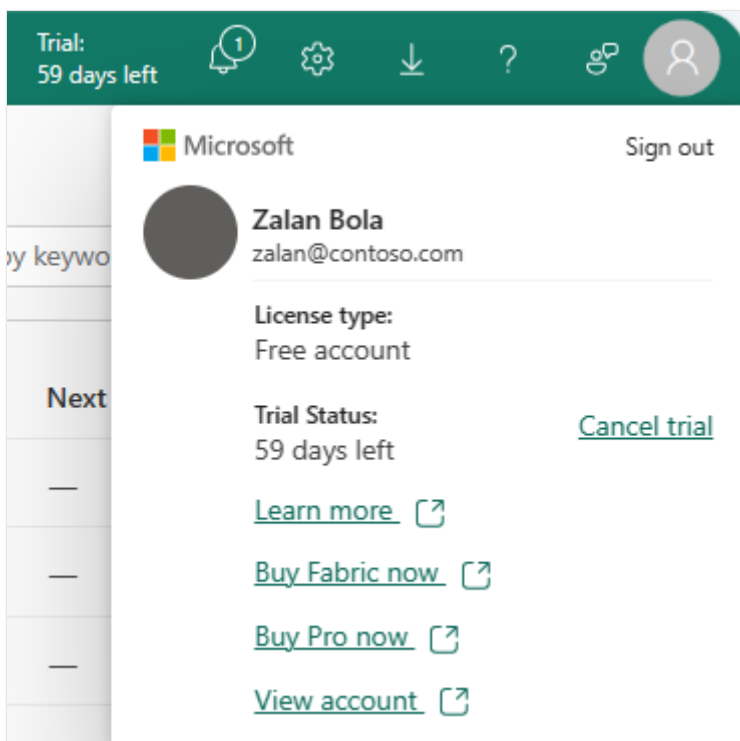
Within workspaces in Premium capacity, creators assign roles, like **Viewer**, **Contributor**, **Member**, and **Administrator**. The roles creators assign to their colleagues, and the licenses the colleagues have, determine how those colleagues can interact with the content. For more information, see [workspace permissions and roles](#).

When a creator makes and publishes an app, they give access to individuals or entire organizations. How you interact with the app's content depends on the specific access permissions you have. For example, you might be able to view the app, connect to the underlying semantic models, make copies of reports, or share the content.

For more info about Premium capacity, see [What is Microsoft Power BI Premium?](#)

## Find out which licenses you have

To see your account information, sign in to Power BI in your browser ([app.powerbi.com](https://app.powerbi.com)). Select your profile picture in the upper right corner. In the following screenshot, a user named Zalan has a free account and is signed up for a free trial. Other types of licenses are Pro and Premium per-user. To see more details about your account, select **View account** > **Subscriptions**.



The first user, Pradtanna, has Office 365 E5, which includes a Power BI Pro license.

The screenshot shows the Microsoft account 'Subscriptions' page. The left navigation pane includes 'My account', 'Personal info', 'Subscriptions' (highlighted with a red box), 'Security & privacy', 'App permissions', 'Apps & devices', and 'Tools & add-ins'. The main content area is titled 'Subscriptions' and contains the text: 'These are the licenses currently assigned to you and your unique ID. If you need help a service(s) is subject to the agreements your organization has with Microsoft. Your organ commitments. Learn more about Microsoft's other connected services [here](#).' Below this is the heading 'User unique identifier and license status' and the text 'User unique identifier 10007'. Under the 'Licenses' section, a list of licenses is shown, with 'Power BI Pro' highlighted by a red box. A red arrow points from the 'Subscriptions' menu item to the 'Power BI Pro' license.

Microsoft

My account

Subscriptions

My account

Personal info

Subscriptions

Security & privacy

App permissions

Apps & devices

Tools & add-ins

## Subscriptions

These are the licenses currently assigned to you and your unique ID. If you need help a service(s) is subject to the agreements your organization has with Microsoft. Your organ commitments. Learn more about Microsoft's other connected services [here](#).

### User unique identifier and license status

User unique identifier  
10007

Licenses

- Office 365 E5
  - Whiteboard (Plan 3)
  - Information Protection for Office 365 - Premium
  - Information Protection for Office 365 - Standard
  - Flow for Office 365
  - PowerApps for Office 365
  - Microsoft Teams
  - Office 365 Cloud App Security
  - Office 365 Advanced eDiscovery
  - Customer Lockbox
  - Microsoft MyAnalytics (Full)
  - Swi
  - Power BI Pro**
  - Microsoft Planner

The second user, Zalan, has a free license. The license name is Fabric (Free).

The screenshot shows the Microsoft account 'Subscriptions' page for a different user. The left navigation pane is the same as in the first screenshot, with 'Subscriptions' highlighted by a red box. The main content area is titled 'Subscriptions' and contains the text: 'These are the licenses currently assigned to you and your unique ID. If you ne is subject to the agreements your organization has with Microsoft. Your orga more about Microsoft's other connected services [here](#).' Below this is the heading 'User unique identifier and license status' and the text 'User unique identifier 100:'. Under the 'Licenses' section, a list of licenses is shown, with 'Microsoft Fabric (Free)' highlighted by a red box. A red arrow points from the 'Subscriptions' menu item to the 'Microsoft Fabric (Free)' license.

My account

Subscriptions

My account

Personal info

Subscriptions

Security & privacy

App permissions

Apps & devices

Tools & add-ins

## Subscriptions

These are the licenses currently assigned to you and your unique ID. If you ne is subject to the agreements your organization has with Microsoft. Your orga more about Microsoft's other connected services [here](#).

### User unique identifier and license status

User unique identifier  
100:

Licenses

- Microsoft Fabric (Free)
  - Purview Discovery
  - Exchange Foundation
  - Power BI (free)

# Microsoft Power BI and Microsoft Fabric

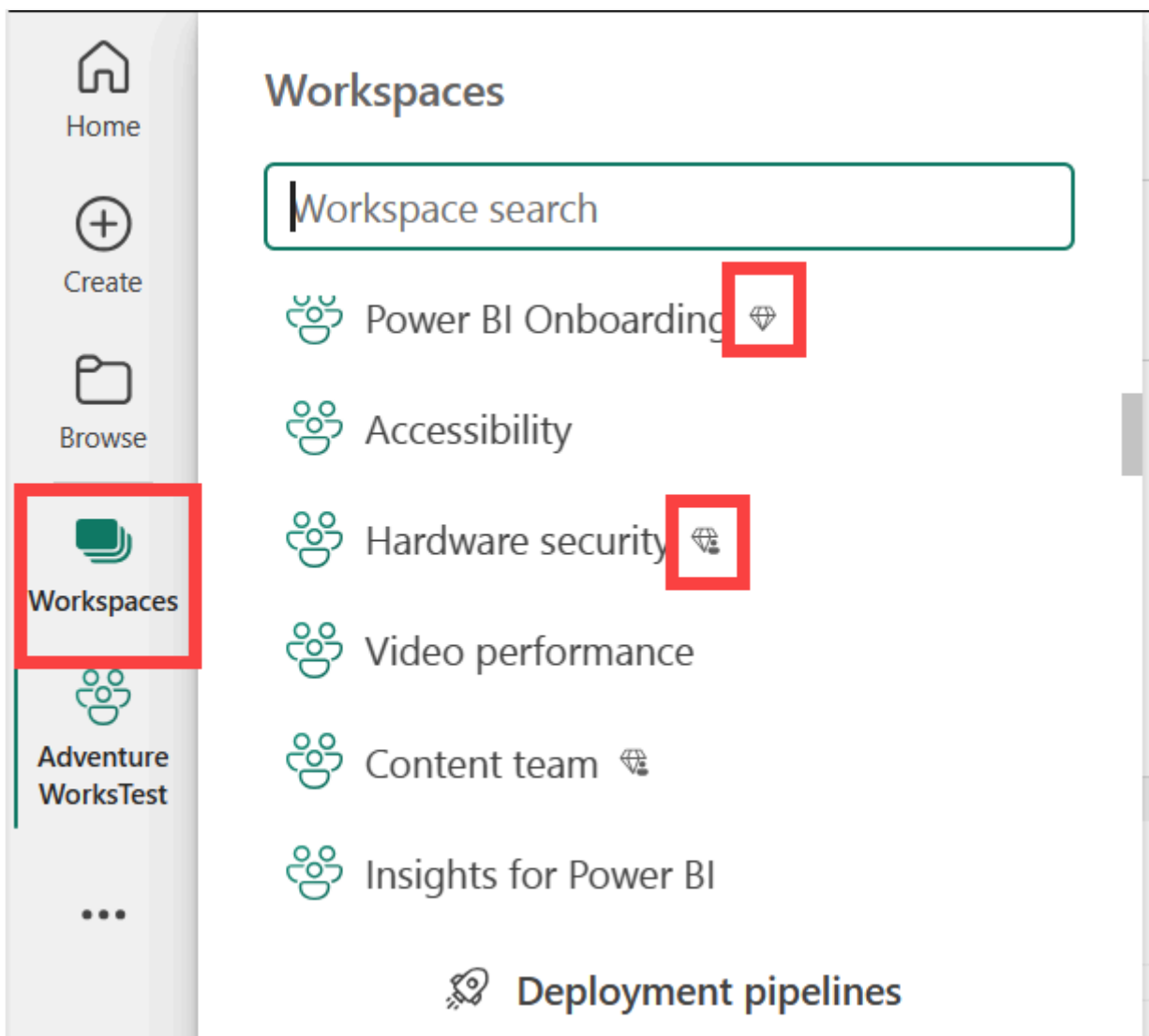
Power BI is one of the experiences available in Microsoft Fabric. Power BI is also available as a standalone service. You might use only the Power BI experience, or you might use more than one Fabric experience.

For more information, see [What is Microsoft Fabric](#).

## Find out if you have access to Premium capacity

Check if you can use content in Premium capacity. Both Pro and free users can belong to an organization with Premium capacity.

Select **Workspaces** and scroll through the list of workspaces shared with you. Workspaces in Premium capacity are marked with a diamond icon. To open a Premium workspace, select it.



Apps and app workspaces saved in Premium capacity also have a diamond icon.

In the following image, two apps are stored in Premium capacity.

The screenshot shows the Power BI interface. On the left is a navigation pane with icons for Home, Create, Browse, Data hub, Metrics, Apps, Deployment pipelines, Knowledge center, and Workspaces. The 'Home' icon is highlighted with a red box. The main view shows a 'Try out an interactive report' banner, a 'My workspace' section, and a 'My apps' section. The 'My apps' section has a red box around its label. Below it is a table of apps with diamond icons next to 'BIM Analytics' and 'Employee Learning Insights BI' also highlighted with red boxes.

	Recent	Favorites	<b>My apps</b>
Icon	Name	Description	
	BIM Analytics	The BIM Ana	
	Data & AI ACR/ADS	ACR/ADS Co	
	Employee Learning Insights BI	Employee Le	
	Microsoft Project for the Web 11/18/2022, 10:35:5...	Project for th	
	Template Apps Exploration Tool 11/18/2022, 11:15:...	Connect to M	

If you don't see any diamond icons, it can mean that no colleague has shared content with you from Premium capacity.

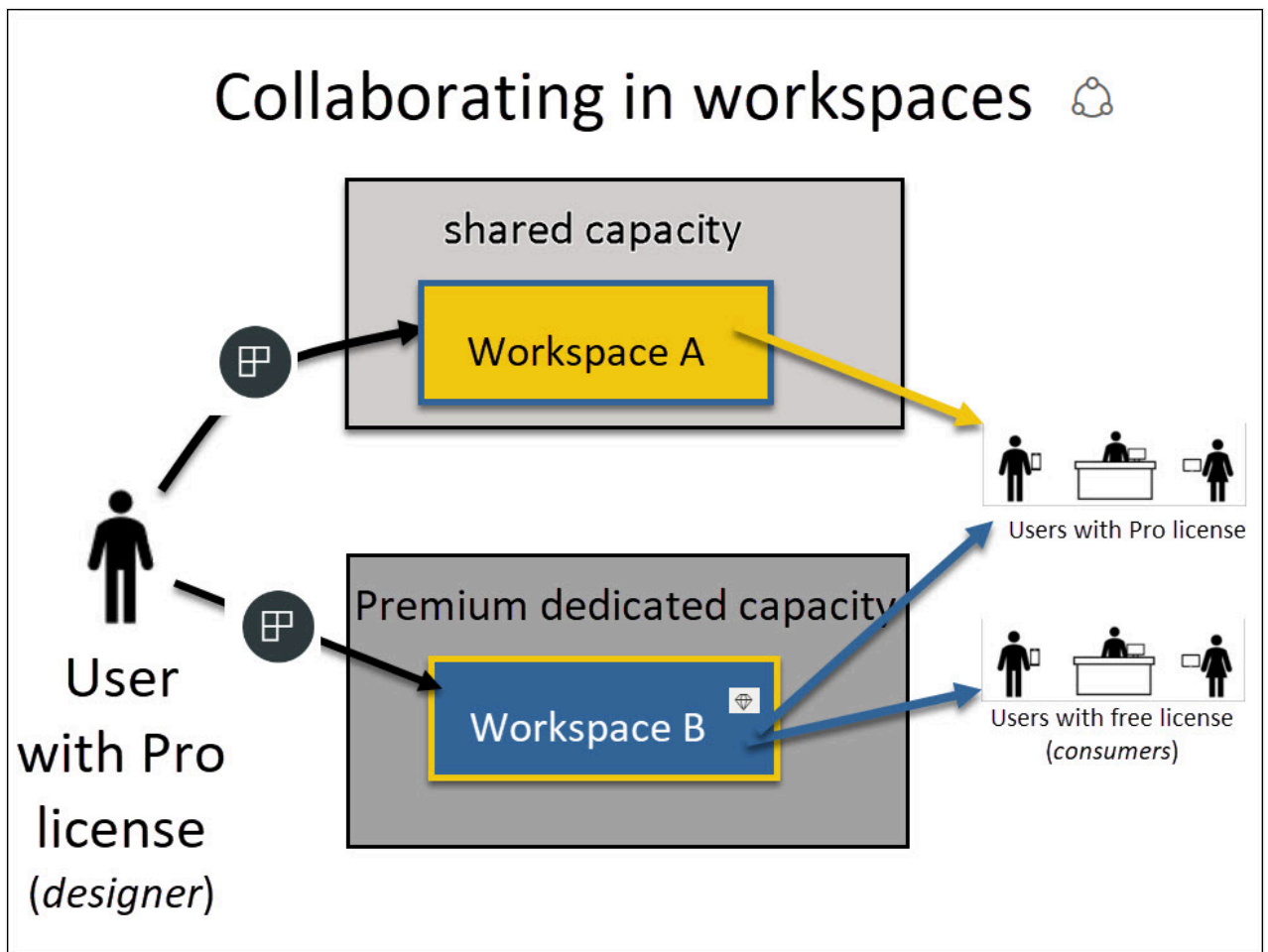
## Put it all together

Organizations set up Power BI subscriptions and licenses in different ways. From a business user's perspective, a common scenario gives you a free license. Your organization buys a Premium subscription, the admin assigns Pro licenses to a small group of users, and all the other users have free licenses. Typically, the admin assigns a Pro license to employees who create and share content. Pro users create [workspaces](#) and add dashboards, reports, semantic models, apps, and other content to those workspaces. To let free users collaborate in those workspaces, the admin or Pro user assigns the workspaces to Premium capacity and gives free users permissions (roles) to that workspace.

License type	Not in Premium capacity	Premium capacity
Free	Use as a personal sandbox to create content for yourself and interact with that content. A free license is a great way to try out the Power BI service. You can't consume content from anyone else or share your content with others.	Interact with content assigned to Premium capacity and shared with you. Free, Premium per-user, and Pro users can collaborate without requiring the free user to have a paid license.
Pro	Collaborate with Premium per-user and Pro users by creating and sharing content.	Collaborate with free, Premium per-user, and Pro users by creating and sharing content.

In the following diagram, the left side shows Pro users who create and share content in app workspaces.

- **Workspace A** isn't in Premium capacity.
- **Workspace B** is created and saved in Premium capacity. This workspace has a diamond icon.

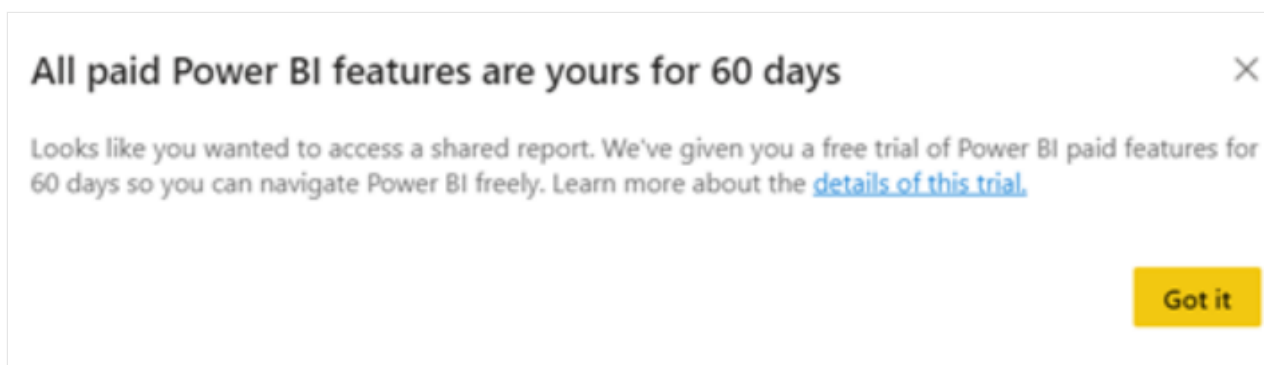


Power BI Pro creators share and collaborate with other Pro users in either workspace. Power BI Pro users can only share and collaborate with free users by using Workspace B, which is in Premium capacity. The creator assigns roles to collaborators within the workspace. Your role

determines what actions you can take. Power BI business users usually get the Viewer role. For more information, see [Permissions in the workspaces](#).

## Considerations and limitations

- You can have more than one Power BI license. The Power BI service always gives you the experience that matches your best license. For example, if you have both a Pro and a free license, the Power BI service uses the Pro license.
- Only SKUs (Stock Keeping Units) equivalent to or higher than a **F64 SKU** let free Power BI users use Power BI apps and shared content in Premium capacity in the Power BI service. Smaller **F SKUs** need a paid license to access shared content.
- If you want to create and share content, or open content that someone else shared with you, and that content isn't in Premium capacity, you need a paid license. Buy a license or sign up for a trial if one is available. One option is the [free trial of Power BI paid features](#). If your organization lets self-service trials, select the upgrade dialog that shows in the Power BI service when you try to use a Pro feature.



When the trial ends, your license goes back to the previous version, either free or Pro. You can't use features that need a paid license. If you want to keep a paid license, contact your admin or IT Help Desk to buy an upgrade. If you don't have an admin or IT Help Desk, go to the [Power BI pricing page](#).


### Tip

To compare Power BI license options and see current pricing, visit the [Power BI pricing page](#).

- If you sign up for a free license by selecting a **Try it free** button, it doesn't expire unless you cancel it. If your trial upgrade ends or your organization removes your Pro or Premium license, your free license is still available.

- A free user license for the Power BI service is great for exploring or using it for personal data analysis and visualizations in **My workspace**. A free standalone user doesn't use Power BI to work with colleagues. Standalone users with free licenses can't view content shared by others or share their own content with other Power BI users.

## Related content

- [Am I a Power BI business user?](#)
- [Purchase Power BI](#) 
- [Features for free users](#)

 **Note:** The author created this article with assistance from AI. [Learn more](#)

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Last updated on 11/25/2025

# Azure security baseline for Power BI

Article • 02/25/2025

This security baseline applies guidance from the [Azure Security Benchmark version 2.0](#) to Power BI. The Azure Security Benchmark provides recommendations on how you can secure your cloud solutions on Azure. The content is grouped by the **security controls** defined by the Azure Security Benchmark and the related guidance applicable to Power BI.

When a feature has relevant Azure Policy Definitions they are listed in this baseline, to help you measure compliance to the Azure Security Benchmark controls and recommendations. Some recommendations may require a paid Microsoft Defender plan to enable certain security scenarios.

## ⓘ Note

**Controls** not applicable to Power BI, and those for which the global guidance is recommended verbatim, have been excluded. To see how Power BI completely maps to the Azure Security Benchmark, see the [full Power BI security baseline mapping file](#) <sup>↗</sup>.

## Network Security

For more information, see the [Azure Security Benchmark: Network Security](#).

### NS-3: Establish private network access to Azure services

**Guidance:** Power BI supports connecting your Power BI tenant to a Private link endpoint and disabling public internet access.

- [Private links for accessing Power BI](#)

**Responsibility:** Shared

### NS-4: Protect applications and services from external network attacks

**Guidance:** Power BI is a fully managed SaaS offering and has built in denial of service protections which Microsoft manages. No action is needed from customers to protect

the service from external network attacks.

**Responsibility:** Microsoft

## NS-7: Secure Domain Name Service (DNS)

**Guidance:** Not applicable; Power BI does not expose its underlying DNS configurations, these settings are maintained by Microsoft.

**Responsibility:** Microsoft

# Identity Management

*For more information, see the [Azure Security Benchmark: Identity Management](#).*

## IM-1: Standardize Azure Active Directory as the central identity and authentication system

**Guidance:** Power BI is integrated with Azure Active Directory (Azure AD) which is Azure's default identity and access management service. You should standardize on Azure AD to govern your organization's identity and access management.

Securing Azure AD should be a high priority in your organization's cloud security practice. Azure AD provides an identity secure score to help you assess identity security posture relative to Microsoft's best practice recommendations. Use the score to gauge how closely your configuration matches best practice recommendations, and to make improvements in your security posture.

Note: Azure AD supports external identities that allow users without a Microsoft account to sign in to their applications and resources with their external identity.

- [Tenancy in Azure AD](#)
- [How to create and configure an Azure AD instance](#)
- [Use external identity providers for application](#)
- [What is the identity secure score in Azure AD](#)

**Responsibility:** Customer

## IM-2: Manage application identities securely and automatically

**Guidance:** Power BI and Power BI Embedded support the use of Service Principals. Store any Service Principal credentials used for encrypting or accessing Power BI in a Key Vault, assign proper access policies to the vault and regularly review access permissions.

- [Automate Premium workspace and dataset tasks with service principals](#)

**Responsibility:** Customer

## IM-3: Use Azure AD single sign-on (SSO) for application access

**Guidance:** Power BI uses Azure Active Directory (Azure AD) to provide identity and access management to Azure resources, cloud applications, and on-premises applications. This includes enterprise identities such as employees, as well as external identities such as partners, vendors, and suppliers. This enables single sign-on (SSO) to manage and secure access to your organization's data and resources on-premises and in the cloud. Connect all your users, applications, and devices to the Azure AD for seamless, secure access and greater visibility and control.

- [Understand Application SSO with Azure AD](#)

**Responsibility:** Customer

## IM-7: Eliminate unintended credential exposure

**Guidance:** For Power BI embedded applications it is recommended to implement Credential Scanner to identify credentials within your code. Credential Scanner will also encourage moving discovered credentials to more secure locations such as Azure Key Vault.

Store any encryption keys or Service Principal credentials used for encrypting or accessing Power BI in a Key Vault, assign proper access policies to the vault and regularly review access permissions.

For GitHub, you can use native secret scanning feature to identify credentials or other form of secrets within the code.

- [Bring your own encryption keys for Power BI](#)
- [How to set up Credential Scanner](#) [↗](#)
- [GitHub secret scanning](#) [↗](#)

**Responsibility:** Shared

# Privileged Access

For more information, see the [Azure Security Benchmark: Privileged Access](#).

## PA-1: Protect and limit highly privileged users

**Guidance:** To reduce risk and follow the principle of least privilege, it is recommended to keep membership of the Power BI administrators to a small number of people. Users with these privileged permissions could potentially access and modify all any management feature for the organization. Global administrators, via Microsoft 365 or Azure Active Directory (Azure AD), implicitly possess administrator rights in the Power BI service as well.

Power BI has below highly privileged accounts:

- Global admin
- Billing admin
- License admin
- User admin
- Power BI admin
- Power BI Premium Capacity admin
- Power BI Embedded Capacity admin

Power BI supports session policies in Azure AD to enable conditional access policies and route sessions used in Power BI through the Microsoft Defender for Cloud Apps service.

Enable just-in-time (JIT) privileged access for the Power BI admin accounts using privileged access management in Microsoft 365.

- [Administrator roles related to Power BI](#)
- [Privileged access management](#)
- [Microsoft Defender for Cloud Apps controls in Power BI](#)

**Responsibility:** Customer

## PA-3: Review and reconcile user access regularly

**Guidance:** As a Power BI service admin, you can analyze usage for all Power BI resources at the tenant level by using custom reports based on the Power BI activity log. You can download the activities by using a REST API or PowerShell cmdlet. You can also filter the activity data by date range, user, and activity type.

You must meet these requirements to access the Power BI activity log:

- You must either be a global admin or a Power BI service admin.
- You have installed the [Power BI Management cmdlets](#) locally or use the Power BI Management cmdlets in Azure Cloud Shell.

Once these requirements are met you can follow the guidance below to track user activity within Power BI:

- [Track users activity in Power BI](#)

**Responsibility:** Customer

## PA-6: Use privileged access workstations

**Guidance:** Secured, isolated workstations are critically important for the security of sensitive roles like administrators, developers, and critical service operators. Use highly secured user workstations and/or Azure Bastion for administrative tasks related to managing Power BI. Use Azure Active Directory (Azure AD), Microsoft Defender Advanced Threat Protection (ATP), and/or Microsoft Intune to deploy a secure and managed user workstation for administrative tasks. The secured workstations can be centrally managed to enforce secured configuration including strong authentication, software and hardware baselines, restricted logical and network access.

- [Understand privileged access workstations](#)
- [Deploy a privileged access workstation](#)

**Responsibility:** Customer

## Data Protection

*For more information, see the [Azure Security Benchmark: Data Protection](#).*

### DP-1: Discovery, classify and label sensitive data

**Guidance:** Use sensitivity labels from Microsoft Purview Information Protection on your reports, dashboards, datasets, and dataflows to guard your sensitive content against unauthorized data access and leakage.

Use sensitivity labels from Microsoft Purview Information Protection to classify and label your reports, dashboards, datasets, and dataflows in Power BI service and to protect

your sensitive content from unauthorized data access and leakage when content is exported from Power BI service to Excel, PowerPoint and PDF files.

- [How to apply sensitivity labels in Power BI](#)

**Responsibility:** Customer

## DP-2: Protect sensitive data

**Guidance:** Power BI integrates with sensitivity labels from Microsoft Purview Information Protection for sensitive data protection. For more details see [sensitivity labels from Microsoft Purview Information Protection in Power BI](#)

Power BI allows service users to bring their own key to protect data at rest. For more details see [Bring your own encryption keys for Power BI](#)

Customers have the option to keep data sources on-premise and leverage Direct Query or Live Connect with an on-premise data gateway to minimize data exposure to the cloud service. For more details see [What is an on-premises data gateway?](#)

Power BI supports Row Level Security. For more details see [Row-level security \(RLS\) with Power BI](#). Note that RLS can be applied even to Direct Query data sources in which case PBIX file acts as a security enabling proxy.

**Responsibility:** Customer

## DP-3: Monitor for unauthorized transfer of sensitive data

**Guidance:** This control can be partially achieved by using Microsoft Defender for Cloud Apps support for Power BI.

Using Microsoft Defender for Cloud Apps with Power BI, you can help protect your Power BI reports, data, and services from unintended leaks or breaches. With Microsoft Defender for Cloud Apps, you create conditional access policies for your organization's data, using real-time session controls in Azure Active Directory (Azure AD), that help to ensure your Power BI analytics are secure. Once these policies have been set, administrators can monitor user access and activity, perform real-time risk analysis, and set label-specific controls.

- [Using Microsoft Defender for Cloud Apps controls in Power BI](#)

**Responsibility:** Customer

## DP-4: Encrypt sensitive information in transit

**Guidance:** Ensure for HTTP traffic, that any clients and data sources connecting to your Power BI resources can negotiate TLS v1.2 or greater.

- [Enforcing TLS version usage](#)
- [Information on TLS Security](#)

**Responsibility:** Customer

## DP-5: Encrypt sensitive data at rest

**Guidance:** Power BI encrypts data at rest and in process. By default, Power BI uses Microsoft-managed keys to encrypt your data. Organizations can choose to use their own keys for encryption of user content at rest across Power BI, from report images to imported datasets in Premium capacities.

- [Use bring-your-own-key in Power BI](#)

**Responsibility:** Shared

# Asset Management

*For more information, see the [Azure Security Benchmark: Asset Management](#).*

## AM-1: Ensure security team has visibility into risks for assets

**Guidance:** Use Microsoft Sentinel with your Power BI Office Audit logs to ensure your security team has visibility into risks for your Power BI assets.

- [Connect Office 365 Logs to Microsoft Sentinel](#)

**Responsibility:** Customer

## AM-2: Ensure security team has access to asset inventory and metadata

**Guidance:** Ensure that security teams have access to a continuously updated inventory of Power BI Embedded resources. Security teams often need this inventory to evaluate

their organization's potential exposure to emerging risks, and as an input to continuously security improvements.

Azure Resource Graph can query for and discover all Power BI Embedded resources in your subscriptions.

Logically organize assets according to your organization's taxonomy using Tags as well as other metadata in Azure (Name, Description, and Category).

- [How to create queries with Azure Resource Graph Explorer](#)
- [Resource naming and tagging decision guide](#)

**Responsibility:** Customer

## AM-3: Use only approved Azure services

**Guidance:** Power BI supports Azure Resource Manager-based deployments for Power BI Embedded, and you are able to restrict the deploying of its resources via Azure Policy using a custom Policy definition.

Use Azure Policy to audit and restrict which services users can provision in your environment. Use Azure Resource Graph to query for and discover resources within their subscriptions. You can also use Azure Monitor to create rules to trigger alerts when a non-approved service is detected.

- [How to configure and manage Azure Policy](#)
- [How to deny a specific resource type with Azure Policy](#)
- [How to create queries with Azure Resource Graph Explorer](#)

**Responsibility:** Customer

## Logging and Threat Detection

*For more information, see the [Azure Security Benchmark: Logging and Threat Detection](#).*

## LT-2: Enable threat detection for Azure identity and access management

**Guidance:** Forward any logs from Power BI to your SIEM which can be used to set up custom threat detections. Additionally, use Microsoft Defender for Cloud Apps controls in Power BI to enable anomaly detection using the guide [here](#).

- [Track user activities in Power BI](#)

**Responsibility:** Customer

## LT-3: Enable logging for Azure network activities

**Guidance:** Power BI is a fully managed SaaS offering and the underlying network configuration and logging is Microsoft's responsibility. For customers utilizing Private Links some logging and monitoring is available that can be configured.

- [Private Link logging and monitoring](#)

**Responsibility:** Shared

## LT-4: Enable logging for Azure resources

**Guidance:** With Power BI, you have two options to track user activity: The Power BI activity log and the unified audit log. These logs both contain a complete copy of the Power BI auditing data, but there are several key differences, as summarized below.

Unified Audit Log:

- Includes events from SharePoint Online, Exchange Online, Dynamics 365, and other services in addition to the Power BI auditing events.
- Only users with View-Only Audit Logs or Audit Logs permissions have access, such as global admins and auditors.
- Global admins and auditors can search the unified audit log by using the Microsoft 365 Defender portal and the Microsoft Purview compliance portal.
- Global admins and auditors can download audit log entries by using Microsoft 365 Management APIs and cmdlets.
- Keeps audit data for 90 days.
- Retains audit data, even if the tenant is moved to a different Azure region.

Power BI Activity Log:

- Includes only the Power BI auditing events.
- Global admins and Power BI service admins have access.
- There's no user interface to search the activity log yet.

- Global admins and Power BI service admins can download activity log entries by using a Power BI REST API and management cmdlet.
- Keeps activity data for 30 days.
- Doesn't retain activity data when the tenant is moved to a different Azure region.

For more information, see the following references:

- [Power BI Auditing data](#)
- [Power BI Activity Log](#)
- [Power BI Audit Log](#)

**Responsibility:** Shared

## LT-5: Centralize security log management and analysis

**Guidance:** Power BI, centralizes logs in two places: the Power BI activity log and the unified audit log. These logs both contain a complete copy of the Power BI auditing data, but there are several key differences, as summarized below.

Unified Audit Log:

- Includes events from SharePoint Online, Exchange Online, Dynamics 365, and other services in addition to the Power BI auditing events.
- Only users with View-Only Audit Logs or Audit Logs permissions have access, such as global admins and auditors.
- Global admins and auditors can search the unified audit log by using the Microsoft 365 Defender portal and the Microsoft Purview compliance portal.
- Global admins and auditors can download audit log entries by using Microsoft 365 Management APIs and cmdlets.
- Keeps audit data for 90 days.
- Retains audit data, even if the tenant is moved to a different Azure region.

Power BI Activity Log:

- Includes only the Power BI auditing events.
- Global admins and Power BI service admins have access.

- There's no user interface to search the activity log yet.
- Global admins and Power BI service admins can download activity log entries by using a Power BI REST API and management cmdlet.
- Keeps activity data for 30 days.
- Doesn't retain activity data when the tenant is moved to a different Azure region.

For more information, see the following references:

- [Power BI Auditing data](#)
- [Power BI Activity Log](#)
- [Power BI Audit Log](#)

**Responsibility:** Customer

## LT-6: Configure log storage retention

**Guidance:** Configure your storage retention policies for your Office Audit logs according to your compliance, regulation, and business requirements.

- [Office Audit Log Retention Policies](#)

**Responsibility:** Customer

## LT-7: Use approved time synchronization sources

**Guidance:** Power BI does not support configuring your own time synchronization sources. The Power BI service relies on Microsoft time synchronization sources, and is not exposed to customers for configuration.

**Responsibility:** Microsoft

# Posture and Vulnerability Management

For more information, see the [Azure Security Benchmark: Posture and Vulnerability Management](#).

## PV-1: Establish secure configurations for Azure services


**Guidance:** Configure your Power BI service with the settings appropriate to your organization and security stance. Settings for access to the service, and content, as well as workspace and app security should be carefully considered. See Power BI Security and Data Protection in the Power BI Enterprise Deployment whitepaper.

- [Enterprise Deployment Whitepaper](#) 

**Responsibility:** Customer

## **PV-2: Sustain secure configurations for Azure services**

**Guidance:** Monitor your Power BI instance using the Power BI Admin REST APIs.

- [Power BI Admin REST APIs](#)
- [Power BI enterprise deployment whitepaper](#) 

**Responsibility:** Customer

## **PV-3: Establish secure configurations for compute resources**

**Guidance:** Power BI is a fully managed SaaS offering, the service's underlying compute resources are secured and managed by Microsoft.

**Responsibility:** Microsoft

## **PV-4: Sustain secure configurations for compute resources**

**Guidance:** Power BI is a fully managed SaaS offering, the service's underlying compute resources are secured and managed by Microsoft.

**Responsibility:** Microsoft

## **PV-5: Securely store custom operating system and container images**

**Guidance:** Power BI is a fully managed SaaS offering, the service's underlying compute resources are secured and managed by Microsoft.

**Responsibility:** Microsoft

## PV-6: Perform software vulnerability assessments

**Guidance:** Power BI is a fully managed SaaS offering, the service's underlying compute resources are scanned and managed by Microsoft.

**Responsibility:** Microsoft

## PV-7: Rapidly and automatically remediate software vulnerabilities



**Guidance:** Power BI is a fully managed SaaS offering, the service's underlying compute resources are scanned and managed by Microsoft.

**Responsibility:** Microsoft

## PV-8: Conduct regular attack simulation

**Guidance:** As required, conduct penetration testing or red team activities on your Azure resources and ensure remediation of all critical security findings.

Follow the Microsoft Cloud Penetration Testing Rules of Engagement to ensure your penetration tests are not in violation of Microsoft policies. Use Microsoft's strategy and execution of Red Teaming and live site penetration testing against Microsoft-managed cloud infrastructure, services, and applications.

- [Penetration testing in Azure](#)
- [Penetration Testing Rules of Engagement](#) 
- [Microsoft Cloud Red Teaming](#) 

**Responsibility:** Shared

## Endpoint Security

*For more information, see the [Azure Security Benchmark: Endpoint Security](#).*

## ES-1: Use Endpoint Detection and Response (EDR)

**Guidance:** Power BI does not deploy any customer-facing compute resources which would require customers to configure Endpoint Detection and Response (EDR)

protection. The underlying infrastructure for Power BI is handled by Microsoft, which includes anti-malware and EDR handling.

**Responsibility:** Microsoft

## **ES-2: Use centrally managed modern anti-malware software**

**Guidance:** Power BI does not deploy any customer-facing compute resources which would require customers to configure anti-malware protection. The underlying infrastructure for Power BI is handled by Microsoft, which includes anti-malware scanning.

**Responsibility:** Microsoft

## **ES-3: Ensure anti-malware software and signatures are updated**

**Guidance:** Power BI does not deploy any customer-facing compute resources which would require customers to ensure anti-malware signatures are updated consistently. The underlying infrastructure for Power BI is handled by Microsoft, which includes all anti-malware handling.

**Responsibility:** Microsoft

# **Backup and Recovery**

*For more information, see the [Azure Security Benchmark: Backup and Recovery](#).*

## **BR-3: Validate all backups including customer-managed keys**

**Guidance:** If you are using the Bring Your Own Key (BYOK) feature in Power BI you need to periodically validate that you can access and restore your customer-managed keys.

- [BYOK in Power BI](#)

**Responsibility:** Customer

## **BR-4: Mitigate risk of lost keys**

**Guidance:** If you are using the Bring Your Own Key (BYOK) feature in Power BI you need to ensure the Key Vault controlling your customer-managed keys is configured with the guidance in the BYOK in Power BI documentation below. Enable soft delete and purge protection in Azure Key Vault to protect keys against accidental or malicious deletion.

- [BYOK in Power BI](#)
- [How to enable soft delete and purge protection in Key Vault](#)

For Gateway key resources ensure you are following the guidance in the Gateway recovery key documentation below.

- [On-premises data gateway recovery key](#)

**Responsibility:** Customer

## Next steps

- See the [Azure Security Benchmark V2 overview](#)
- Learn more about [Azure security baselines](#)

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## Feedback

Was this page helpful?

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No

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# Power BI videos

Article • 04/25/2025

Power BI videos are embedded in our documentation, organized into channels and playlists on YouTube, and featured in the Community video gallery. Our videos come in many different flavors:

- How-to videos that teach you how to *do something* in Power BI
- Conceptual videos that explain things like: terminology, the logic behind how something works, and foundational information
- Video *series* that are combined into a course or certification
- Recordings of past Community webinars
- Customer success stories
- Videos from conferences (Ignite, Data Insights, and more) that we've hosted
- Monthly product update videos that describe and show new features

## ⓘ Note

Videos might use earlier versions of Power BI Desktop or the Power BI service.

## Subscribe to the Power BI video channel

Our video channel includes curated playlists to make it easy to find the content you need. We're continually adding to our collection, so [subscribe to the Power BI video channel](#) to be notified when we add new videos. Explore our playlists to discover videos focused on where you are in the business intelligence journey.

## Microsoft Power BI Community videos and webinars

[The Community gallery](#) curates videos from hosted events and from our community members. Explore videos organized by date, top kudo-ed, featured, and live events.

## Related content

- [Microsoft Learn training for Power BI](#)
- [Power BI monthly updates](#)

More questions? [Try asking the Power BI Community.](#)

# Previous monthly updates to Power BI Desktop and the Power BI service

This article describes previous updates to **Power BI Desktop** and the **Power BI service**. For the most current month's release, check out [Power BI latest updates](#). To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The following sections describe previous months' updates to **Power BI Desktop** and the **Power BI service**.

## October 2025 update (version 2.148.1226.0)

The October update brings exciting opportunities for learning and community engagement, including the upcoming Fabric Data Days and the return of FabCon in Atlanta next spring. Notably, Power BI is making strides in mapping capabilities by transitioning from Bing Maps to Azure Maps, ensuring users have access to the latest features and support. Read on to get a concise overview of the October 2025 Power BI update—key reporting, Copilot, performance, connectivity, and visualization changes. For more information, visit the [Power BI October 2025 Feature Summary blog post](#).

Download the [October 2025 version of Power BI Desktop](#).

## Events and announcements


- **Fabric Data Days:** Two months of learning, contests, live sessions, and community connection start November 4.
- **FabCon Americas:** March 16–20, 2026, Atlanta, GA. This community-led event includes keynotes, expert sessions, an expo hall, Power Hour, the Data Viz World Championship, and a party at the Georgia Aquarium. Use code FABCOMM to get \$200 off.

## General

 Expand table

Feature	Description	Currently in preview
Bing Maps deprecation and Azure Maps migration	Migration of map visuals in paginated reports from Bing Maps to Azure Maps will occur in two phases. Bing Maps will continue to be used in the Power BI service for paginated reports until phase two is complete.	

# Copilot and AI

 Expand table

Feature	Description	Currently in preview
Copilot to write DAX queries in DAX query view	Generate Data Analysis Expression (DAX) queries in desktop and web modeling, grounded in the semantic model.	

# Reporting

 Expand table


Feature	Description	Currently in preview
Button slicer	It's now generally available and supports cross-highlighting, auto grid, and more.	
Visual calculations in embed	Define custom calculations directly in visuals for embedded scenarios.	✓
Auto expand table columns	The <b>Grow to fit</b> option distributes extra space across columns for cleaner visuals.	
Power BI controller in PowerPoint	Manage multiple Power BI add-ins in PowerPoint presentations and perform bulk operations.	✓
Performance analyzer in web	Analyze visual load times in web reports. Currently rolling out to tenants.	

# Data connectivity

 Expand table


Feature	Description	Currently in preview
Export query results	Export cleaned data from Power Query directly to Dataflows Gen2, lakehouses, and other cloud stores.	✓

# Other

 Expand table


Feature	Description	Currently in preview
ARM support for Power BI Desktop	Power BI Desktop now runs natively on Windows on ARM PCs with the 2025-09 update, delivering faster performance and improved battery life on modern devices.	

## Visualizations

 Expand table

Feature	Description	Currently in preview
Sankey Chart by Powerviz	Dynamic flow diagram with multilevel support, smart labels, conditional formatting, and image labels.	
Your Timeline Slicer	Space saving timeline visual with dynamic filtering and customization.	
Drill Down Scatter PRO by ZoomCharts	Multilevel drill down, mobile and desktop support, subset specific customization.	
Multiple Sparklines	Design an income statement with a waterfall chart for profit and Loss, common-size analysis, five-year trends, year-over-year comparison, and competitor benchmarking.	
Performance Bar by JTA	Horizontal bars for tracking progress or status, custom markers, and labels.	
Financial Reporting Matrix v8.2	Conditional formatting, comments, custom expansion icons, pinned columns, and more.	
BI Pixie by DataChant	Measures BI effectiveness in six dimensions, adds RLS auditing, exports metrics, and provides real time data leak detection.	

## September 2025 update (version 2.147.909.0)

The [Power BI September 2025 Feature Summary blog post](#)  introduces updates for users and coincides with FabCon Vienna. This release introduces several key enhancements, including, updates to Copilot and AI capabilities such as the standalone Copilot default-on experience and important changes to default visuals like the Bing Maps Visual icon. Dive into the details to discover how these innovations can elevate your Power BI experience.

For a quick summary of the September features, read on. For a detailed look at these updates and more enhancements, go to the [blog](#). You can also watch the September demos in the [monthly playlist](#).

Download the [September 2025 version of Power BI Desktop](#).

## Events and announcements


- **Power BI Dataviz World Championships:** Four finalists are taking the stage at FabCon Vienna to compete for the title of world champion. Follow the [Power BI September 2025 Feature Summary blog](#) to find out who was crowned champion.
- **Get certified in Microsoft Fabric:** Join the thousands of other Fabric users who've achieved over 50,000 certifications collectively for the Fabric Analytics Engineers and Fabric Data Engineers roles. To celebrate FabCon Vienna, we are offering the entire Fabric community a **50% discount** on exams *DP-600*, *DP-700*, *DP-900*, and *PL-300*.

## General

 Expand table

Feature	Details and related documentation
Bing Maps visual icon will be removed from the default visuals list of the visualization pane	Beginning with the October release, the Bing Maps visual icon will be removed from the default visuals list in the Power BI visualization pane.


## Copilot and AI

 Expand table

Feature	Details and related documentation
Standalone Copilot to default-on	The standalone Copilot experience for Power BI, a full-screen, chat-based AI interface, will be enabled by default for all tenants with Copilot turned on starting September 5, 2025. Users can opt out via the admin portal. For more information, see <a href="#">Standalone Copilot experience in Power BI</a> .
Autoselection of Copilot workspaces	Copilot will automatically assign a workspace to users without Fabric Copilot Capacity, simplifying access while maintaining user control. For more information, see <a href="#">Standalone Copilot experience in Power BI</a> .
Save explorations to pro workspaces	Explorations can now be saved to Pro workspaces, making it easier to share insights. For more information, see <a href="#">Use Explore in the Power BI service</a>


Feature	Details and related documentation
Find Power BI reports in Microsoft 365	Search for Power BI reports in Microsoft 365 by title, description, or chart details, improving discovery in Microsoft 365 Copilot and Office search. For more information, see <a href="#">Share data with your Microsoft 365 services</a> .
Copilot search improvements	Copilot search now boosts content marked as "Prepped for AI," provides descriptive captions for reports, and supports workspace and item type hints. For more information, see <a href="#">Find content with Power BI Copilot search</a> .
Prep data for AI for the Power BI service	Prepare semantic models for AI directly in the Power BI service, including Direct Lake models. Features include schema selection, verified answers, and AI instructions. For more information, see <a href="#">Mark your model as prepped for AI</a> .



## Reporting

 Expand table

Feature	Details and related documentation
Enhanced DAX time intelligence (preview)	Define custom calendars, such as fiscal or 4-5-4 retail calendars, for precise time-based calculations. Includes new functions like TOTALWTD and PREVIOUSWEEK. For more information, see <a href="#">Implement time-based calculations in Power BI</a> .
Performance analyzer available when editing a report in the web	Observe visual load times and copy DAX queries directly in the web report editing experience. For more information, see <a href="#">Use Performance Analyzer to examine report element performance in Power BI Desktop</a> .
Translytical task flows are now enabled by default in Power BI	Automate tasks like updating records and triggering workflows directly from reports using Fabric User data functions. For more information, see <a href="#">Understand translytical task flows</a> .

## Modeling

 Expand table

Feature	Details and related documentation
Editing semantic models in the Power BI service (generally available)	Create and edit semantic models directly in the browser, including advanced modeling capabilities like relationships, DAX measures, and row-level security. For more information, see <a href="#">Edit data models in the Power BI service (preview)</a>  .
Live editing Direct Lake semantic models with Power BI Desktop (generally available)	Edit Direct Lake semantic models directly in Power BI Desktop, with changes applied in Fabric. For more information, see <a href="#">Direct Lake in Power BI Desktop (preview)</a>  .

Feature	Details and related documentation
TMDL view (generally available)	Edit semantic models using the Tabular Model Definition Language (TMDL) for batch updates and code-first transparency. For more information, see <a href="#">Work with TMDL view in Power BI Desktop (preview)</a> .
Download PBIX of XMLA altered semantic models	Download and edit PBIX files for semantic models modified through the XMLA endpoint. For more information, see <a href="#">Limitations when downloading a report .pbix file</a> .
Fabric Notebooks for Power BI: best practices analyzer and memory analyzer (generally available)	Analyze semantic models with Fabric Notebooks for performance, memory, and storage optimization. For more information, see <a href="#">Use notebooks with a semantic model</a> .
Direct Lake on OneLake + import in web modeling (preview)	Combine Direct Lake and import table storage modes in web modeling for flexible data integration. For more information, see <a href="#">Direct Lake overview</a> .
Direct Lake on OneLake + import in desktop	Power BI Desktop can also live edit semantic models with both Direct Lake and import tables. For more information, see <a href="#">Direct Lake overview</a> .
DAX user-defined functions (preview)	Define reusable DAX functions with parameters for cleaner, maintainable logic. For more information, see <a href="#">DAX user-defined functions</a> .
Refresh data or schema options in Power BI Desktop	Choose to refresh data only or sync schema only, providing more control over refresh operations. For more information, see <a href="#">Data refresh in Power BI</a> .
Power BI content shared in Teams now opens in a separate window	Power BI items shared in Teams now open in a separate window, preserving the chat view. For more information, see <a href="#">Link preview cards in Microsoft Teams chats and channels</a> .

## Mobile

 Expand table

Feature	Details and related documentation
NFC tag support in Power BI Mobile (generally available)	Register and access Power BI items via NFC tags for quick data retrieval. For more information, see <a href="#">Connect data to physical locations with NFC tags</a> .

## Other

[Expand table](#)

Feature	Details and related documentation
New tenant setting for set alert button visibility	Admins can control visibility of the 'Set alert' button for creating Fabric Activator alerts. For more information, see <a href="#">Create an alert in Power BI report</a>

## Visualizations

[Expand table](#)

Feature	Details and related documentation
ADWISE advanced column v 2.0	A versatile column chart visual with features like difference lines, Top N selection, and total columns.
Zebra BI tables: calculated reports in one click and brand images	Streamline reporting with row calculations and brand images for intuitive data storytelling.
Word cloud by Powerviz	Create high-quality word clouds with advanced styling, ranking, and conditional formatting.
Drill down combo bar PRO by ZoomCharts	Visualize categorical data with up to nine drill-down levels and customizable chart types.
CAGR arrows now in Zebra BI charts	Highlight multi-year growth trends with intuitive CAGR arrows in Zebra BI Charts.

## August 2025 update (version 2.146.705.0)

The [August 2025 update for Power BI](#) delivers a powerful mix of AI enhancements, modeling upgrades, and reporting flexibility. Whether you're embedding reports in SharePoint or refining semantic models, this release is packed with tools to elevate your data experience.

For a quick summary of the August features, read on. For a detailed look at these updates and more enhancements, go to the [blog](#). You can also watch the August demos in the [monthly playlist](#).

## Events and announcements

- **Power BI Dataviz World Championships:** Compete live at FabCon Vienna! Enter by August 18 or join the community vote. [Details here](#).
- **FabCon Europe and US:** Join us in Vienna (September 15–18, 2025) or Atlanta (March 16–20, 2026). Use codes **FABCOMM** or **MSCATL** for discounts. [Register now](#).

# Copilot and AI

- **Copilot in SharePoint embedded reports:** Now available! Users can interact with Copilot directly inside embedded Power BI reports.
- **Measure descriptions (general availability):** Copilot can now autogenerate measure descriptions in Power BI Desktop and web modeling.
- **Filtered summaries in standalone Copilot (preview):** Ask targeted questions like "What were sales in 2024?" and get filtered, inline responses—no need to open the full report.

## Reporting and modeling

- **Org apps in Pro workspaces (preview):** Create multiple tailored org apps per workspace—even with a Pro license.
- **Edit data models in Power BI service (preview):**
  - Improved error handling in Power Query.
  - Native query support.
  - Workspace-level preview setting to be removed next month.
- **TMDL view enhancements:**
  - Script named expressions like Power Query parameters.
  - Drag-and-drop scripting for measures, tables, and columns.
- **Mirrored Azure Databricks catalogs:** Use Direct Lake tables from mirrored catalogs in Power BI Desktop.
- **Semantic model refresh templates (preview):** Orchestrate refreshes with Fabric Data Pipelines using low-code templates and guided setup.

## Data connectivity

- **Impala connector 2.0 (preview):** Built on the Arrow Database Connectivity (ADBC) driver for better performance and maintainability.
- **Microsoft Entra ID authentication for PostgreSQL:** Microsoft Entra ID support added for PostgreSQL Flexible Server connections.

## Developers and APIs

- **Simplified PBIP format for Live Connect reports:** Cleaner `definition.pbir` files with just the connection string and semantic model ID.

## Visualizations

- **Drill Down Line PRO by ZoomChart:** Interactive line charts with up to 25 series, conditional formatting, and key performance indicator thresholds. [Explore features](#) .
- **Date Picker by Powerviz:** A modern, customizable calendar slicer with presets, themes, and DAX-driven logic. [Try it on AppSource](#) .

## Resources

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- Only the English versions of Power BI Desktop are archived.

Download the [August 2025 version of Power BI Desktop](#) .

## July 2025 update (2.145.1105.0)

The [July 2025 Power BI update](#) introduces richer Microsoft 365 connections, smarter Copilot features, and integrated reporting with PBIRS and SQL Server 2025. This article covers all the new features, benefits, and improvements to help you get the most out of Power BI.

For a quick summary of the July features, read on. For a detailed look at these updates and more enhancements, go to the [blog](#). You can also watch the July demos in the [monthly playlist](#).

## Events and announcements

- **Power BI is turning 10:** Power BI celebrates its 10th anniversary with a special live episode featuring behind-the-scenes stories, product evolution highlights, and a sneak peek at future developments. The celebration includes a live Q&A session, contests, and giveaways.
- **The Microsoft Fabric Community Conference is back x2. Join us in Vienna and Atlanta:** The Microsoft Fabric Community Conference returns for its third year. Events are in Vienna from September 15-18, 2025, and in Atlanta, Georgia, from March 16-20, 2026. Attendees can register for discounts using specific codes.

## General

- **Expanded data sharing with Microsoft 365:** Power BI improves integration with Microsoft 365 by sharing more detailed metadata, like chart titles and descriptive text, so users find reports and make data-driven decisions.
- **PBIRS will consolidate on-premises reporting services from SQL Server 2025:** Starting with SQL Server 2025, all on-premises reporting services unify under Power BI Report Server (PBIRS), which is the default solution for all paid SQL Server editions. Microsoft doesn't release new versions of SQL Server Reporting Services (SSRS).

## Copilot and AI

- **Improvements to standalone Copilot answers:** Standalone Copilot prioritizes report data over model data to generate answers, so responses are more relevant. Copilot also applies filters to report responses, so answers to user queries are more specific.
- **Limit Copilot search to prepped content:** New admin settings let tenant and workspace admins limit Copilot search responses to items marked as "Prepped for use with AI." This feature helps reduce the risk of using outdated or irrelevant reports.
- **Verified answers from Copilot search:** Power BI's standalone Copilot provides human-curated common questions and visualizations, so users get accurate and relevant answers.
- **AI data schema—updates (preview):** The AI data schema capability in the "Get your data AI ready" preview now shows indicators for hidden fields. These updates make it easier to prepare data for AI.
- **Customized instructions for summaries through subscriptions:** Power BI report subscriptions support summaries by Copilot at the top of the email, which can include

custom instructions and make report summaries more relevant.

- **Narrative visual available in subscription snapshot and export:** The narrative visual is available in screenshot export services, so users can include these visuals in PDF or PPT exports and subscriptions.
- **Textual responses for data inquiries:** Copilot offers textual summaries that complement generated visuals for data-related elements of the visual response, so the user experience is better.

## Reporting

- **New Power BI app navigation menu in Teams:** The new left navigation menu in the Power BI app for Teams streamlines navigation, so you find and use Power BI content in Teams more easily. The redesigned menu has a user-friendly layout.
- **Influencing sort for visual calculations (preview):** Power BI adds an ORDERBY parameter to most visual calculations, so you run advanced computations based on data sorting. This feature lets you use more flexible visual calculations.
- **Field parameters (generally available):** Field parameters are generally available, so you change the measures or dimensions you analyze in a report. This feature lets you customize reports more easily.
- **Organizational themes (preview):** Power BI supports organizational themes, so reports have consistent branding and styling. Tenant admins manage and share custom JSON themes centrally, so reports match your organization's visual identity.
- **Improvements to pie and donut charts:** The latest update improves pie and donut charts with more consistent styling options and better accessibility. You adjust slice colors, transparency, borders, and other features.

## Modeling

- **Direct Lake in Desktop from mirrored and SQL databases:** Create Direct Lake semantic models in Power BI Desktop from SQL and mirrored databases in Microsoft Fabric. This feature lets you create and validate semantic models more easily.
- **DAX query view and web modeling view switcher:** Use the new view switcher to quickly switch between web modeling and DAX query view. This makes working with published semantic models easier.

## Data connectivity

- **Support for PQO gateway connections for paginated reports:** Create paginated reports using an on-premises data source by establishing a gateway connection. This feature expands connectivity options for paginated reports.

- **Snowflake connector implementation 2.0 (generally available):** Snowflake connector implementation 2.0 is generally available, offering improved performance and security features. This update includes enhancements like Boolean column support and improved tracing.
- **New Google BigQuery (Microsoft Entra ID) connector implementation (preview):** The new Google BigQuery (Microsoft Entra ID) connector implementation is available, offering improved performance and security features. Enable this feature in Power BI Desktop.
- **New Databricks connector implementation (preview):** The new Databricks connector implementation is available in preview, offering improved performance and security features. This update uses the Arrow Database Connectivity (ADBC) driver.
- **Connect to Netezza database with the user-installed ODBC driver (preview):** Access Netezza data using the user-installed ODBC driver, which provides more flexibility when connecting to Netezza databases.
- **PostgreSQL connector adds support for Microsoft Entra ID authentication:** The PostgreSQL connector supports Microsoft Entra ID authentication, which provides an alternative to database (username/password) authentication.

## Mobile

- **Home in the Power BI mobile app has been reorganized:** The home screen in the Power BI mobile app is reorganized so you can get to your most important content faster. The update includes a combined carousel for recent and frequent items, and a new favorites carousel.

## Developers and APIs

- **Power BI enhanced report format (PBIR) update:** The PBIR file format update addresses limitations and is on the path to general availability. The update supports deploying PBIR reports using Fabric deployment pipelines, and it's compatible with different Power BI service features.






## Visualizations

- **Stacked bar chart with line by JTA - a data scientist's visualization tool:** This custom Power BI visual from JTA combines a traditional bar chart, a stacked bar, and a dynamic line chart, so you can compare multiple metrics in one display. The visual lets you customize many options.
- **Linear gauge by Powerviz:** The linear gauge visual by Powerviz is an advanced tool for showing progress against set targets on a linear scale. It lets you customize gauge styles, orientation, and data colors.

- **Drill down shape map PRO by ZoomCharts:** Shape Map PRO is a custom visual that lets you create interactive map charts for quick, actionable insights. The visual supports many customization options and works well with other visuals.
- **Inforiver premium table—high-performance, formatted, and scalable table visual for Power BI:** Inforiver premium table is for business reporting, operational dashboards, and customer-level analytics. It supports rich formatting, inline edits, and custom calculations, so it's ideal for showing categorical data.
- **Inforiver Analytics+ 4.7 is here with 100+ charts, Gantt, KPI cards, and tables:** Inforiver Analytics+ now has over 100 chart types, KPI cards, tables, and Gantt charts in one visual. This update fills key gaps in Power BI and adds many advanced chart types.

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Select a link to download this version:

- [July 2025 version of Power BI Desktop - 32-bit](#) 

- [July 2025 version of Power BI Desktop - 64-bit](#)

## June 2025 update (2.144.679.0)

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The [June 2025 Power BI update](#) highlights several exciting preview features and an important action-required item for Power BI users. In preview, you can find updates to visual calculations and enhancements to numeric range and field parameters, designed to offer greater flexibility and analytical power within your reports.

There are also new tenant settings for the Azure Maps visual, which require administrators to take action to ensure seamless integration and continued support. For a quick summary of the June features, read on. For a comprehensive look at these updates and further enhancements, visit the [blog](#). You can also view the June demos on the [monthly playlist](#)

### Events and announcements

- [Power BI is turning 10](#): Celebrate a decade of Power BI innovation. Over the past 10 years, Power BI has evolved from a concept into a global platform empowering millions to transform data into actionable insights. Mark this milestone with special activities and certification prep sessions.
- [Microsoft Fabric Community Conferences](#): Register for the upcoming *FabCon Vienna* (September 15-18, 2025) and the third annual *FabCon* in Atlanta, Georgia (March 16-20, 2026).

### General

- [Secure collaboration on sensitive data in Power BI Desktop](#): This month's release introduces new features to help organizations securely collaborate on sensitive data within Power BI Desktop.

### Reporting

- [Updates to visual calculations \(preview\)](#): The update enhances visual calculations, making it easier to perform advanced data analysis directly in visuals.
- [Sparklines \(generally available\)](#): Sparklines are now fully available, allowing users to visualize trends in table and matrix visuals as part of this release.
- [Updates to numeric range and field parameters \(preview\)](#): This release improves numeric range and field parameter capabilities for more interactive and dynamic reports.

- [New tenant settings for Azure Maps visual \(action required\)](#) <sup>↗</sup>: New administrative controls for Azure Maps visuals are included, requiring tenant admins to review and update settings.
- [Support for mapping South Korean locations](#) <sup>↗</sup>: The update expands mapping support to include accurate representation of South Korean geographic data.
- [Support for adding paginated reports to org apps \(preview\)](#) <sup>↗</sup>: Users can now add paginated reports to organizational apps, broadening report sharing options in this release.
- [Use Copilot on reports in org apps \(preview\)](#) <sup>↗</sup>: Copilot AI features are now available on reports in organizational apps, enhancing interactivity this month.

## Modeling

- [Power Query editing in the web for import models \(preview\)](#) <sup>↗</sup>: This release allows editing Power Query transformations for import models directly in the Power BI web interface.
- [Expanded support for write operations via external tools](#) <sup>↗</sup>: The update increases compatibility for write operations when using external tools with Power BI datasets.

## Data connectivity

- [Connect to Vertica database with the user-installed Open Database Connectivity \(ODBC\) driver \(generally available\)](#) <sup>↗</sup>: Official support is now provided for connecting to Vertica databases using user-installed ODBC drivers.
- [QuickBooks Online \(beta\) connector under deprecation](#) <sup>↗</sup>: The release announces the planned deprecation of the QuickBooks Online (beta) connector.
- [Connect to PostgreSQL database without manual driver installation](#) <sup>↗</sup>: This update simplifies PostgreSQL database connections by removing the need for manual driver installation.

## Mobile

- [Org apps are now available in Power BI mobile! \(preview\)](#) <sup>↗</sup>: Organizational apps can now be accessed on Power BI mobile devices as part of this month's release.

## Developers + APIs

- [Power BI Project \(PBIP\) public JSON schemas](#) <sup>↗</sup>: Public JSON schemas for PBIP files are now available, supporting better integration and tooling.

## Visualizations

- [Drill Down Waterfall PRO by ZoomCharts](#): A new custom visual for advanced waterfall chart analysis with drill-down capabilities is introduced in this release.
- [Network Graph by Powerviz](#): The update adds a custom visual for creating and exploring network graphs in Power BI reports.
- [Decomposition Tree - all expanding](#): The decomposition tree visual now supports expanding all branches, enabling deeper data exploration in this month's release.

## Resources

Like learning about Power BI through videos and other engaging content? Check out the following collection of video sources and content:

- [This month's Power BI playlist on YouTube](#): Collection of videos and demos that highlight this month's Power BI updates.
  - [See all Power BI playlists on YouTube](#)
- [Power BI YouTube channel](#): The official Microsoft Power BI channel
- Follow Power BI on X [@MSPowerBI](#)
- Visit the [Power BI forums within the Microsoft Fabric Community](#)

### ⓘ Note

These resources might use earlier versions of Power BI Desktop or the Power BI service.

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- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.
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- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

Select the following links to download this earlier version:

- [June 2025 version of Power BI Desktop - 32-bit](#)
- [June 2025 version of Power BI Desktop - 64-bit](#)

# May 2025 update (2.143.878.0)

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The [May 2025 Power BI update](#) introduces a range of exciting advancements to Power BI, including a standalone Copilot feature allowing users to "Ask anything!" (in preview), enhanced language understanding for data-related questions, and an important announcement regarding the deprecation of the 32-bit Power BI Desktop build. Packed with valuable updates and insights, this month's updates promise plenty of details to explore.

Read on for highlights of the latest release. Select the feature links to jump to the blog for more information. Visit the [Microsoft Power BI Updates blog](#) for an in-depth look at all the exciting additions and updates for the month of May. You can also view the May demos on the [monthly playlist](#).

## Events and announcements

- [New Fabric roadmap tool](#): See the centralized [Fabric roadmap experience](#), which offers real-time updates and integration with internal planning tools.

## General

- [Power BI Desktop 32-bit deprecation](#): The 32-bit build of Power BI Desktop is scheduled for deprecation in August 2025. Users should transition to the 64-bit version for continued updates and improved performance.

## Copilot and AI

- [Standalone Copilot in Power BI: Ask anything! \(preview\)](#): Use the standalone Copilot feature to ask questions and receive insights directly within Power BI, enhancing user interaction and data exploration. Learn more about the [standalone Copilot experience in Power BI \(preview\)](#).
- [Quality improvements to language understanding for data questions](#): Improve the accuracy of responses to data-related questions with enhanced language understanding capabilities.
- [Get your data AI ready \(Preview\)](#): Tools and guidance to prepare your data for AI-driven analysis and insights. Learn more about how to [prep your data for AI](#).
- [AI data schema](#): Define schemas that optimize your data for AI processing and ensure compatibility with AI features. Learn more about [AI data schema](#).

- **Verified answers** [↗](#): Gain confidence in AI-generated answers by verifying their accuracy and relevance. Learn more about [verified answers](#).
- **AI instructions** [↗](#): Customize AI behavior by providing specific instructions to tailor responses to your needs. Learn more about [AI instructions](#).
- **Testing with the skill picker** [↗](#): Test and refine AI capabilities using the skill picker to select and evaluate specific AI skills. Learn more about [using the skill picker](#).
- **Preparing a semantic model for AI** [↗](#): Learn how to optimize your semantic model for seamless integration with AI features. Learn more about how to [prep your semantic model for AI](#).
- **Mark a semantic model as prepared for AI** [↗](#): Indicate that a semantic model is AI-ready, enabling advanced AI functionalities. Learn more about how to [mark your semantic model as prepped for AI](#).

## Reporting

- **Automate report actions and data writeback with translytical task flows (preview)** [↗](#): Enable automation of report actions and data writeback using translytical task flows for seamless workflows. Learn more about [translytical task flows \(preview\)](#).
- **Persisted sorting for field parameters (preview)** [↗](#): Maintain sorting preferences for field parameters across sessions for consistent report views. Learn more about [field parameters](#).
- **Easily refer to values in your visual with visual calculations (preview)** [↗](#): Use visual calculations to reference values directly within visuals for enhanced data insights. Learn more about [visual calculations](#).
- **Updates to the new list slicer (preview)** [↗](#): See the improved functionality and customization options for the new list slicer.
- **Paste into list and button slicers (preview)** [↗](#): Simplify data entry by pasting values directly into list and button slicers.
- **Customize line segment colors in line charts** [↗](#): Adjust line segment colors in line charts for better visual distinction.
- **Additional base map customization options for Azure Maps visual** [↗](#): Expanded customization options for base maps in Azure Maps visuals.
- **Upcoming Azure Maps tenant settings and layer ordering updates** [↗](#): Learn about new tenant settings and layer ordering features for Azure Maps.
- **Upcoming changes to the Power BI app in Teams navigation menu** [↗](#): See updates to the navigation menu in the Power BI app for Teams to improve usability. Learn more about [Power BI in Teams](#).
- **Visual updates for semantic models with discourage implicit measures enabled** [↗](#): Get enhanced visual representation for semantic models when implicit measures are discouraged. Learn more about [model view](#) and the [model explorer](#).

# Modeling

- [Selection expressions for calculation groups](#) <sup>↗</sup>: Define selection expressions for calculation groups to create dynamic calculations. Learn more about [selection expressions](#).
- [TMDL view enhancements](#) <sup>↗</sup>: See improvements to the tabular model definition language (TMDL) view for better modeling experiences.
- [Direct lake relationship improvements](#) <sup>↗</sup>: Get enhanced relationship handling for direct lake storage mode. Learn more about [creating relationships between tables](#).
- [Direct lake and import tables in the same semantic model](#) <sup>↗</sup>: Get support for combining direct lake and import tables within a single semantic model.

# Data connectivity

- [New Google BigQuery connector implementation \(preview\)](#) <sup>↗</sup>: Find out about the revamped connector for Google BigQuery with improved performance and features. Learn more about the [Google BigQuery connector](#).
- [Connect to the Vertica database with the user-installed ODBC driver - updates \(preview\)](#) <sup>↗</sup>: Read about updates to the Vertica database connector for better compatibility with user-installed ODBC drivers. Learn more about the [Vertica database connector](#).
- [Connect to the Oracle database with the built-in driver - updates \(preview\)](#) <sup>↗</sup>: See enhancements to the Oracle database connector using the built-in driver. Learn more about the [Oracle connector](#).
- [Improvements in the Snowflake connector \(preview\)](#) <sup>↗</sup>: Get updates to the Snowflake connector for improved data connectivity and performance. Learn more about the [Snowflake connector](#).

# Visualizations

- [Dandelion chart](#) <sup>↗</sup>: Represent hierarchical data in a dandelion-like structure with this new visualization option.
- [Dynamic radial bar chart by JTA](#) <sup>↗</sup>: Use a radial bar chart visualization with dynamic features for interactive data exploration.
- [Action dots are here an innovative way to visualize variances in Zebra BI tables](#) <sup>↗</sup>: Use action dots to highlight variances in Zebra BI tables for better data interpretation.
- [KPI by Powerviz](#) <sup>↗</sup>: Use this new visualization tool for tracking key performance indicators (KPIs) effectively.
- [Drill down timeline PRO by ZoomCharts](#) <sup>↗</sup>: Drill down for detailed analysis with this advanced timeline visualization.

- [PowerGantt chart by Nova Silva](#) <sup>↗</sup>: Use a Gantt chart visualization for project management and scheduling.
- [Profitbase Gantt revamped](#) <sup>↗</sup>: Get an updated version of the Profitbase Gantt chart with enhanced features and usability.

## Resources

Like learning about Power BI through videos and other engaging content? Check out the following collection of video sources and content.

- [This month's Power BI playlist on YouTube](#) <sup>↗</sup>: Collection of videos and demos that highlight this month's Power BI updates.
  - See [all Power BI playlists on YouTube](#) <sup>↗</sup>
- [Power BI YouTube channel](#) <sup>↗</sup>: The official Microsoft Power BI channel
- Follow Power BI on X [@MSPowerBI](#) <sup>↗</sup>
- Visit the [Power BI forums within the Microsoft Fabric Community](#) <sup>↗</sup>

### ⓘ Note

These resources might use earlier versions of Power BI Desktop or the Power BI service.

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- We only archive the English versions of Power BI Desktop.

Select the following links to download this earlier version:

- [May 2025 version of Power BI Desktop - 32-bit](#) <sup>↗</sup>
- [May 2025 version of Power BI Desktop - 64-bit](#) <sup>↗</sup>

# April 2025 Update (2.142.928.0)

In April we're showered with all sorts of updates to Power BI, enabling our customers to create a lush garden of visuals, insights, and business intelligence to data from around the world.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

### Important

Starting with the March 2025 version of Power BI Desktop, your CPU must support Advanced Vector Extensions (AVX) instructions. If your CPU doesn't support AVX instructions, you might encounter unexpected errors when running Power BI Desktop. Even if your CPU supports AVX, the host machine's BIOS or virtualization settings could have AVX instructions disabled. Ensure that AVX instructions are enabled in your system configuration.

The following updates are new to Power BI Desktop this month:

## General

- Backward compatibility is impacted by Q&A setup updates [\[blog\]](#) [\[video\]](#)

## Copilot and AI

- Ad hoc calculation support for data questions now available in read mode [\[blog\]](#) [\[article\]](#) [\[video\]](#)

## Reporting

- File picker enabled by default in Power BI Desktop [\[blog\]](#) [\[video\]](#)
- Mobile layout auto-create now generally available [\[blog\]](#) [\[article\]](#) [\[video\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Live edit of semantic models in Direct Lake mode with Power BI Desktop - updates (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Semantic model changes with TMDL view (preview) [\[blog\]](#) [\[video\]](#)
- Azure Maps auto-zoom now includes reference layers [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Data connectivity

- Connect to the Vertica database with the user-installed ODBC driver - updates (preview) [\[blog\]](#) [\[video\]](#)
- Use the built-in driver to connect to Oracle (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Snowflake connector update [\[blog\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

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## March 2025 Update (2.141.1228.0)

In March we felt downright lucky to have all sorts of updates to Power BI, enabling us to celebrate a greenfield of opportunity for our business insights.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

**ⓘ Important**

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**ⓘ Important**

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**ⓘ Important**

Starting with the March 2025 version of Power BI Desktop, your CPU must support Advanced Vector Extensions (AVX) instructions. If your CPU doesn't support AVX instructions, you might encounter unexpected errors when running Power BI Desktop. Even if your CPU supports AVX, the host machine's BIOS or virtualization settings could have AVX instructions disabled. Ensure that AVX instructions are enabled in your system configuration.

The following updates are new to Power BI Desktop this month:

## General

- Power BI Desktop start-up performance improvements [\[blog\]](#) <sup>↗</sup> [\[article\]](#)
- Upgrade Power BI Desktop [\[blog\]](#) <sup>↗</sup>

## Copilot and AI

- Get a Copilot summary directly from your Teams message with a single click [\[blog\]](#) [\[video\]](#)
- Copilot in Power BI to write DAX queries in DAX query view updates [\[blog\]](#) [\[video\]](#)
- Improved language understanding for data questions [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Ad hoc calculation support for data questions [\[blog\]](#) [\[video\]](#)

## Reporting

- Better storytelling with Data annotations in Power BI for PowerPoint (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Copy report object name [\[blog\]](#) [\[video\]](#)
- Referenced column highlights for visual calculations (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Enhancements to Reference Lines [\[blog\]](#) [\[video\]](#)
- Category enhancements for new card (preview) [\[blog\]](#) [\[video\]](#)
- Introducing style presets to visuals [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Insights category for business users in the OneLake catalog [\[blog\]](#) [\[video\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Create semantic models in Direct Lake storage mode from one or more Fabric artifacts in Power BI Desktop [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- TMDL view support for Direct Lake semantic models (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Updates to semantic model version history (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Edit your data model in the Power BI service - updates (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Live edit of semantic models in Direct Lake mode with Power BI Desktop - updates (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Use notebooks with your semantic model (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Access the Azure Analysis Services migration tool from your workspace [\[blog\]](#)
- Table view improvements [\[blog\]](#)

- Distribution, discovery, and consumption [\[blog\]](#) [↗](#)
- CI/CD for org apps (preview) [\[blog\]](#) [↗](#) [\[video\]](#) [↗](#) [\[article\]](#)
- Introducing new customization options for org apps - combined navigation (preview) [\[blog\]](#) [↗](#) [\[article\]](#)

## Data connectivity

- Improvements in the Snowflake connector (preview) [\[blog\]](#) [↗](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [↗](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#) [↗](#).

## Power BI monthly update video

The following video playlist describes many of these updates. You can also watch the included videos from the blog post.

[\[Video Playlist\]](#) [↗](#)

### ⓘ Note

The videos might use earlier versions of Power BI Desktop or the Power BI service.

## February 2025 Update (2.140.1078.0)

In February we just loved the fact that Power BI continued to woo us with new features, better business intelligence insights, and all the analytics you need to make the most of your cherished data.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

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- The remaining features are self-explanatory and don't need an article or video.

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## Power BI Desktop

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### Important

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The following updates are new to Power BI Desktop this month:

## General

- Upgrade Power BI Desktop to 64-bit version [\[blog\]](#) <sup>↗</sup> [\[article\]](#)
- Upgrade Power BI Desktop to February 2025 version [\[blog\]](#) <sup>↗</sup>

## Copilot and AI

- Copilot in the Power BI mobile apps: now available on iPads and Android tablets (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Updated section - How Copilot arrived at this [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Explore from Copilot visual answers [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Reporting

- Conditional formatting support for visual calculations (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

### ⓘ Note

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## Modeling

- Live edit of semantic models in Direct Lake mode with Power BI Desktop - updates (preview) [\[blog\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#)

## Other

- The OneLake catalog is now available in Microsoft Teams [\[blog\]](#)
- Monitoring Hub enhancements for Semantic models [\[blog\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video playlist describes many of these updates. You can also watch the included videos from the blog post.

[\[Video Playlist\]](#)

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- We only archive the English versions of Power BI Desktop.

## January 2025 Update (2.139.1576.0)

In January we celebrated a new year, a quarter century of data and insights, and shared fresh new features and capabilities that we resolved to use and make our business intelligence insights beautiful and useful.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
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- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

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### Important

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Copilot and AI

- Unlock suggested questions from standard prompts in Copilot [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Reporting

- Explore this data: new entry point from a visual [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Storytelling in PowerPoint - new reset behavior (preview) [\[blog\]](#) [\[video\]](#)
- Storytelling in PowerPoint - supporting page up and down (preview) [\[blog\]](#) [\[video\]](#)
- Save to OneDrive and SharePoint: updated file picker (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Enhancement to Text slicer (preview) [\[blog\]](#)
- Enhancements to Treemap visual [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Semantic model version history (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Edit your data model in the Power BI service - updates (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Live edit of semantic models in Direct Lake mode with Power BI Desktop - updates (preview) [\[blog\]](#) [\[article\]](#)
- TMDL scripting experience (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Data connectivity

- New Snowflake connector implementation (preview) [\[blog\]](#) [\[video\]](#) [\[video\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#)

## Other

- Now in Power BI Desktop - OneLake catalog [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video playlist describes many of these updates. You can also watch the included videos from the blog post.

[\[Video Playlist\]](#)

### ⓘ Note

The videos might use earlier versions of Power BI Desktop or the Power BI service.

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.

- It might not be possible to open files created or saved in newer releases of Power BI Desktop with previous versions of Power BI Desktop.
- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

## November 2024 Update (2.138.782.0)

In November we were thankful for the basket of new features and capabilities that we could harvest, cook into new insights, and share.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Copilot and AI

- Copilot summaries in subscriptions (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Reporting

- Path Layer for the Azure Map visual [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Visual calculations update (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- *Set Alert* with Activator and Real-Time Intelligence (general availability) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Small multiples for the new card visual (preview) [\[blog\]](#)
- New visual - text slicer (preview) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Define new measure in DAX query view quick queries [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Performance improvements for models with calculation groups and format strings in Excel [\[blog\]](#) [\[video\]](#)
- DLP policies restrict access action for semantic models (public preview) [\[blog\]](#)
- Semantic modeling in Visual Studio Code with the new TMDL extension (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/4MmIZEwVGbc>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.
- It might not be possible to open files created or saved in newer releases of Power BI Desktop with previous versions of Power BI Desktop.
- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

## October 2024 Update (2.137.751.0)

October brought a spooky-good collection of updates and features, weaving a web of opportunity to create insights and intelligence from data both new and old.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Copilot and AI

- Enhanced Power BI Report Creation with Copilot (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Quick measure suggestions with Copilot to be replaced with Microsoft Fabric Copilot [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Reporting

- Visual calculations update (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Azure Map Update - data bound reference layers [\[blog\]](#) [\[video\]](#)
- Marker enhancements [\[blog\]](#) [\[video\]](#)
- New List Slicer (preview) (preview) [\[blog\]](#)
- Power BI in Teams - announcing the retirement of *Teams activity analytics* [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Dynamic format strings for measures (general availability) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Introducing INFO.VIEW Data Analysis Expressions (DAX) functions [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Value filter behavior (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Data connectivity

- Snowflake connector updates [\[blog\]](#) [\[video\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/nRRfHoUr0IA>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## September 2024 Update (2.136.1202.0)

We fell into our September updates with a lot of anticipation, as days got shorter, and the dark mode of fall became part of our daily routine.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## General

- Dark mode now available in Power BI Desktop [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Copilot and AI

- Default full report summaries and answers in the Copilot pane [\[blog\]](#) [\[video\]](#)

## Reporting

- Updated menu bar in the Power BI service view mode [\[blog\]](#) [\[video\]](#)
- Visual calculations update (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Visual level format strings (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Power BI in Teams - now supporting multifactor authentication [\[blog\]](#) [\[video\]](#)
- Multiple org apps per workspace, custom colors (preview) [\[blog\]](#) [\[article\]](#)
- Subscribe to reports on the last day of the month [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Introducing Fabric Metrics Layer (preview) [\[blog\]](#) [\[video\]](#)
- Live edit of semantic models in Direct Lake mode with Power BI Desktop (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Q&A now supports semantic models with OLS [\[blog\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#)

## Data connectivity

- Connected tables in Excel now available in semi-annual [\[blog\]](#) [\[article\]](#)

## Other

- General availability of Get data experience in Power BI Report Builder [\[blog\]](#) [\[video\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

# Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/N3gd4wfsmvo> ↗

## ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## August 2024 Update (2.132.908.0)

Our August updates got us back into school mode with a collection of new features, a great video that showed how many of the compelling updates can sharpen your business intelligence pencils, and set you up for great grades in creating insights and actionable business intelligence.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) ↗. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) ↗. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

## ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Copilot and AI

- Ask Copilot questions against your semantic model (Preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Reporting

- Visual level format strings (Preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Dynamic per-recipient subscriptions (general availability) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Deliver subscriptions to OneDrive and SharePoint (general availability) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Updated Save and Upload to OneDrive flow in Power BI [\[blog\]](#) [\[video\]](#)
- Data limit [\[blog\]](#) [\[article\]](#)
- Visuals, shapes and line enhancements [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- DAX Query View in the web [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [↗](#)

## Other

- Paginated Reports - Sharing of reports connecting to Get Data data sources made easy [\[blog\]](#) [↗](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#) [↗](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/-XLQBaYwUuw> [↗](#)

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## July 2024 Update (2.131.901.0)

July let you declare independence from waiting on others to create compelling reports and visuals, enabling you to launch your own spectacular display of sizzling analytics and insights.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Customize your reference layers in the Azure Maps visual [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- General availability of enhanced row-level security editor in Power BI Desktop [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)
- DAX Query View available in live connect [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)

- Add or update multiple measures in DAX Query View [\[blog\]](#) [\[video\]](#)

## Data connectivity

- Certified connector updates [\[blog\]](#) [\[article\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/vnfDAkl9Hgl>

### Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## June 2024 Update (2.130.754.0)

June's updates were a sunny collection of capabilities that let you chart a course to the best business intelligence insights using Power BI Desktop.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Visual calculations update (preview) [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)
- Power BI Home in Power BI Desktop now generally available [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- Download large semantic models [\[blog\]](#) <sup>↗</sup> [\[video\]](#) <sup>↗</sup> [\[article\]](#)

- New INFO functions [\[blog\]](#) [\[video\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/fbw09nHOM-c>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## May 2024 Update (2.129.905.0)

May brought a colorful bouquet of updates, capabilities, and features for the Power BI service and Power BI Desktop.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of

how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Modern Tooltip now on by default [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Matrix layouts [\[blog\]](#) [\[video\]](#)
- Line updates [\[blog\]](#) [\[video\]](#)
- On-object interactions updates [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Publish to folders (Preview) [\[blog\]](#) [\[video\]](#)
- You can now ask Copilot questions about data in your model (Preview) [\[blog\]](#) [\[video\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Modeling

- DAX Query View now generally available [\[blog\]](#) [\[video\]](#) [\[article\]](#)

- Copilot to write and explain DAX queries in DAX Query View updates (Preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- New Manage relationships dialog [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Refreshing calculated columns and calculated tables referencing DirectQuery sources with single sign-on [\[blog\]](#) [\[video\]](#)
- Model explorer and authoring calculation groups in Power BI Desktop now generally available [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Data connectivity

- Microsoft Entra ID SSO support for Oracle database [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Certified connector updates [\[blog\]](#) [\[video\]](#)
- View reports in OneDrive and SharePoint with live connected semantic models [\[blog\]](#) [\[video\]](#)

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

[https://www.youtube-nocookie.com/embed/k5EEdq6y\\_jo](https://www.youtube-nocookie.com/embed/k5EEdq6y_jo)

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## April 2024 Update (2.128.751.0)

We were showering our users and customers with a refreshing collection of updates, capabilities, and features for the Power BI service and Power BI Desktop in April.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

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### Important

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New visual - 100% stacked area chart [\[blog\]](#)
- Line enhancements [\[blog\]](#)
- Enhance Q&A with Copilot-generated linguistic relationships [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#)

## Other

- Introducing Copilot pane in Power BI Desktop [\[blog\]](#) [\[video\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/1wmrtV2f-JQ>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## March 2024 Update (2.127.1080.0)

We felt lucky as a four-leaf clover about March's month's collection of updates, capabilities, and features for the Power BI service and Power BI Desktop.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.

- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Visual calculations update (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- On-object interaction updates [\[blog\]](#) [\[video\]](#)
- Mobile layout auto-create (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Expanding spatial data integration: Shapeful support in Azure Maps visual [\[blog\]](#)
- Data bars in matrix subtotal/total conditional formatting [\[blog\]](#)
- Data labels alignment [\[blog\]](#)

## Modeling

- Write DAX queries in DAX query view with Copilot (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Enhanced row-level security editor is enabled by default (preview) [\[blog\]](#) [\[article\]](#)
- Selection expressions for calculation groups (preview) [\[blog\]](#) [\[article\]](#)
- DAX query view improvements (preview) [\[blog\]](#) [\[article\]](#)

#### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#)

## Other

- Connect to new data sources from Power BI Report Builder [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Localized parameter prompts in Power BI Report Builder [\[blog\]](#) [\[video\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/HmU8BNfyyuM>

#### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## February 2024 Update (2.126.927.0)

Our hearts were full of love for this month's collection of updates, capabilities, and features for the Power BI service and Power BI Desktop.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Visual calculations (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)

- Dynamic subscriptions for Power BI reports (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- On-object interaction updates [\[blog\]](#) [\[video\]](#)
- Power BI Home in Power BI Desktop is enabled by default (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- Enhanced reference layer in Power BI Azure Maps visual [\[blog\]](#) [\[video\]](#)

## Modeling

- Measure descriptions with Copilot (preview) [\[blog\]](#) [\[video\]](#) [\[article\]](#)
- DAX query view improvements (preview) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#) [\[video\]](#) [\[article\]](#)

## Other

- Protected PBIX in Power BI Desktop [\[blog\]](#) [\[video\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes many of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/D21bSYXAqTA>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## December 2023 Update (2.124.581.0)

Like a collection of holiday gifts, this month's Power BI updates were full of analytics tools, toys, and capabilities for the Power BI service and Power BI Desktop.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

#### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

#### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- On-object interaction updates (preview) [\[blog\]](#) [\[video\]](#)
- More styling options for column and bar charts [\[blog\]](#) [\[video\]](#)
- Extended customization for data labels [\[blog\]](#) [\[video\]](#)
- Azure Maps clustering aggregation support for bubble layer [\[blog\]](#)
- Alerting on your Power BI reports with Fabric Activator [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- OneLake data hub in Power BI Desktop [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Power BI connector updates [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

[https://www.youtube-nocookie.com/embed/PycL2\\_T0DxM](https://www.youtube-nocookie.com/embed/PycL2_T0DxM)

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## November 2023 Update (2.123.326.0)

We were all thankful for the platefuls of updates to Power BI this November, with all sorts of update helpings for BI Desktop and the Power BI service.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Button slicer (preview) [\[blog\]](#) [↗](#)
- Reference labels (preview) [\[blog\]](#) [↗](#)
- Enhance your Q&A visual with suggested synonyms from Copilot [\[blog\]](#) [↗](#) [\[article\]](#) [↗](#)
- On-object interaction updates [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
- Azure Maps visual now aggregates multiple data points at the same location [\[blog\]](#) [↗](#)
- Narrative visual with Copilot [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)

## Modeling

- Datasets renamed to semantic models [\[blog\]](#) [↗](#)
- Power BI semantic models support for Direct Lake on Synapse Data Warehouse [\[blog\]](#) [↗](#) [\[article\]](#) [↗](#)
- DAX query view to write and run DAX queries on your model [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#) [\[article\]](#) [↗](#)
- Edit your data model in the Power BI service (updates) [\[blog\]](#) [↗](#)

## Data connectivity

- Azure Resource Graph (new connector) [\[blog\]](#) [↗](#)
- Many connector updates [\[blog\]](#) [↗](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#) [↗](#)

## Other

- Enhanced accessibility in paginated reports authored in Report Builder [\[blog\]](#) [↗](#) [\[article\]](#) [↗](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#) [↗](#).

# Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/HiWiXyZHRsE> 

## Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## October 2023 Update (2.122.442.0)

October was full of scary-good features and a pumpkin-patch of updates. Navigate through this section of this article for a corn-maze like expedition through October's offerings for Power BI Desktop and the Power BI service.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

## Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI

Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Power BI Desktop OneDrive and SharePoint integration [\[video\]](#) [\[blog\]](#)
- On-object interaction updates (preview) [\[video\]](#) [\[blog\]](#)
- Power BI home in Power BI Desktop [\[video\]](#) [\[blog\]](#)
- Deduplication rules for composite models on Power BI semantic models and Analysis Services [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Modeling

- Edit your data model in the Power BI service (updates) [\[video\]](#) [\[blog\]](#)
- Model explorer public preview with calculation group authoring and creating relationships in the properties pane [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Many connector updates [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/8QSVnwcYzlo>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## September 2023 Update (2.121.644.0)

September brought us a new classroom full of Power BI updates, its curriculum chock full of features and new insights for your data, your visuals, and the models you couldn't wait to share with new-found friends.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).



The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important



Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#)  and install on your computer.

### Important





Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:


## Reporting

- Mobile layout interactive canvas [\[blog\]](#) 
- Smart narrative improvements [\[blog\]](#)  [\[article\]](#)

## Modeling

- Edit your data model in the Power BI service - updates [\[blog\]](#) 
- Edit linguistic relationships in Q&A setup [\[blog\]](#) 
- Updates to MINX and MAXX DAX functions [\[blog\]](#)  [\[article - MINX\]](#) [\[article - MAXX\]](#)
- Edit relationships in the Properties pane (general availability) [\[blog\]](#)  [\[article\]](#)

## Data connectivity

- SAP HANA (updates) [\[blog\]](#) 

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#) 

## Other

- Upgrade Power BI Desktop .NET Framework to 4.7.2 or newer [\[blog\]](#) 

For detailed information about each new feature, see [Power BI feature summary blog post](#) .

## August 2023 Update (2.120.731.0)

August was full of sunshine, dry grass, bored summer students and a fine collection of updates for Power BI Desktop and the Power BI service.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be

asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New switcher layout [\[video\]](#) [\[blog\]](#)
- New bubble range scaling setting [\[video\]](#) [\[blog\]](#)
- On-object interactions (updates) (Preview) [\[video\]](#) [\[blog\]](#)

## Modeling

- Updates to ORDERBY function [\[video\]](#) [\[blog\]](#)

## Data connectivity

- New modern data connectivity and discovery experience in dataflows [\[video\]](#) [\[blog\]](#)
- Lakehouses (connector update) [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

# Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/oVT0JrOLwS8> 

## Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## July 2023 Update (2.119.323.0)

July brought us celebrations that look like fireworks for the Power BI Desktop and the Power BI service, enabling you to create stunning visuals and revolutionary data models in your march toward business intelligence independence.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

## Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI

Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Smoothed and leader lines (updates) [\[blog\]](#)
- On-Object interaction (updates) [\[video\]](#) [\[blog\]](#)

## Modeling

- Edit your data model in the Power BI service (updates) [\[blog\]](#) [\[article\]](#)
- Relationship validation [\[blog\]](#)

## Data connectivity

- Many connector updates [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[video\]](#) [\[blog\]](#)

## Others

- WebView2 - generally available [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/berUCt4EHik>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## June 2023 Update (2.118.286.0)

This June we had a sunny collection of features and enhancement for Power BI Desktop and the Power BI service, designed to warm up your visuals and your data models.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New card visual [\[video\]](#) [\[blog\]](#)
- OneLake data hub in Power BI Desktop [\[video\]](#) [\[blog\]](#)
- On-Object interaction (updates) [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Visual Cue for new tenant settings [\[video\]](#) [\[blog\]](#)
- Tenant admin settings API [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/5O30NI4x4ho> 

#### Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## May 2023 Update (2.117.286.0)

This May we had all sorts of new features growing, blooming, and blossoming to create a fabric of amazing visuals, insights, and intelligence for Power BI Desktop and the Power BI service.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of

Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Microsoft Fabric

- Power BI Direct Lake mode (preview) [\[video\]](#) [\[blog\]](#)
- Azure Analysis Services to Fabric and Power BI Premium Migration Experience now generally available [\[video\]](#) [\[blog\]](#)
- Optimize ribbon in Power BI Desktop now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Hybrid tables now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Azure Log Analytics for Power BI semantic models now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Power BI data hub updated and rebranded as OneLake data hub [\[video\]](#) [\[blog\]](#)

## Reporting

- Azure maps now generally available [\[video\]](#) [\[blog\]](#)
- Measure driven data labels [\[video\]](#) [\[blog\]](#)
- Use OneDrive and SharePoint files in Power BI Desktop [\[video\]](#) [\[blog\]](#)
- Matrix accessibility improvements [\[video\]](#) [\[blog\]](#)
- On-object interaction - updates (preview) [\[video\]](#) [\[blog\]](#)
- Set query limits in Power BI Desktop [\[video\]](#) [\[blog\]](#)

## Modeling

- New DAX function: MATCHBY [\[video\]](#) [\[blog\]](#)

## Data connectivity

- On-premises data gateway, May 2023 release [\[video\]](#) [\[blog\]](#)

- New Get Data category: Fabric [\[video\]](#) [\[blog\]](#)
- New connectors:
  - Lakehouse in Microsoft Fabric [\[video\]](#) [\[blog\]](#)
  - Warehouse in Microsoft Fabric [\[video\]](#) [\[blog\]](#)
  - KQL database in Microsoft Fabric [\[video\]](#) [\[blog\]](#)
  - MongoDB Atlas SQL [\[video\]](#) [\[blog\]](#)
  - Celonis EMS [\[video\]](#) [\[blog\]](#)
  - CloudBlue PSA [\[video\]](#) [\[blog\]](#)
  - SolarWinds Service Desk [\[video\]](#) [\[blog\]](#)
- Many updated data connectors [\[blog\]](#)

#### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/zLgq2L2kk9g>

#### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## April 2023 Update (2.116.404.0)

This April we had new features and capabilities raining down on our Power BI offering, filling us with the hope of bright colors and new growth across our veritable garden of analytics.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

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You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Dynamic format strings for measures [\[video\]](#) [\[blog\]](#)

- On-object interaction - updates (preview) [\[video\]](#) [\[blog\]](#)
- New tooltip auto-scale (preview) [\[blog\]](#) [\[article\]](#)

## Analytics

- Update to Quick measures suggestions [\[blog\]](#) [\[article\]](#)

## Modeling

- Composite models on Power BI semantic models and Analysis Services (generally available) [\[blog\]](#) [\[release announcement\]](#) [\[article\]](#)
- Updates to ORDERBY function [\[blog\]](#) [\[article\]](#)
- New DAX functions: RANK and ROWNUMBER [\[blog\]](#) [\[article\]](#) [\[article\]](#)

## Data connectivity

- Many updated data connectors [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- Many new and updated visuals [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/rQfUo3PN0zw>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## March 2023 Update (2.115.663.0)

We felt lucky as a four-leaf clover to have shared our March updates to Power BI with all of you. We hope they were like a pot of gold at the end of a data-driven rainbow, full of compelling visuals and business intelligence capabilities.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

#### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Apply all slicers button, clear all slicers button, optimization presets update [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Format pane - new styling [\[blog\]](#) [\[video\]](#)
- On-object interaction (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Visual container improvements [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Many updated data connectors [\[blog\]](#) [\[video\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[blog\]](#) [\[video\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/Tbh0tFEfoXw>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## February 2023 Update (2.114.664.0)

We loved February's updates. We were happy to share them with all of you, all wrapped up in a virtual heart-shaped box of sweet features.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

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#### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release

of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

[https://powerbi.microsoft.com/blog/power-bi-february-2023-feature-summary/#post-22137-\\_Toc126917169](https://powerbi.microsoft.com/blog/power-bi-february-2023-feature-summary/#post-22137-_Toc126917169)

## Reporting

- Conditional formatting based on string fields [\[video\]](#) [\[blog\]](#)
- Smart Narrative visual summary icon [\[blog\]](#)
- Formatting image width in table and matrix [\[blog\]](#)
- Update your base theme in Power BI [\[blog\]](#)
- Report theme validation on custom theme import [\[blog\]](#)
- Text box visual indentation [\[blog\]](#)
- New accessible report themes [\[blog\]](#)
- Customize visible pages in the Page navigator visual [\[blog\]](#)
- Sensitivity labels now supported in PDF export from Power BI Desktop (preview) [\[blog\]](#)
- Enhanced row-level security editor (preview) [\[video\]](#) [\[blog\]](#)

## Analytics

- Quick create SDK [\[blog\]](#)

## Modeling

- New DAX functions: LINESST and LINESSTX [\[blog\]](#)

## Data connectivity

- Many updated data connectors [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[blog\]](#) 

For detailed information about each new feature, see [Power BI feature summary blog post](#) .

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/7-0Pr0U2HIA> 

### Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## December 2022 Update (2.112.283.0)

December's updates were a sleigh ride of fun, making us want to go door-to-door and sing about our new and updated features. May your data analytics always be cheery and bright.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:



- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important



Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#)  and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Slicer type formatting moved to Format Pane [\[video\]](#)  [\[blog\]](#) 

## Modeling

- Making it easier to do comparison calculations [\[video\]](#)  [\[blog\]](#)  [\[article\]](#)

## Data connectivity

- Many updated data connectors [\[video\]](#)  [\[blog\]](#) 

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#)  [\[blog\]](#) 

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/2O4EtGlq93k>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## November 2022 Update (2.111.265.0)

November's updates felt like a family reunion, and we were thankful and grateful for the heaping-tall servings of updates, features, and new capabilities. Please pass the data to this end of the table.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Unshared and unsynchronized axes for small multiples charts [\[video\]](#) [\[blog\]](#)
- Controlling and customizing labels on Azure Maps [\[video\]](#) [\[blog\]](#)
- Create dynamic slicers using field parameters (Preview) [\[video\]](#) [\[blog\]](#)
- Composite models over Power BI semantic models and Analysis Services (Preview) [\[video\]](#) [\[blog\]](#)

## Modeling

- Streamline your report authoring experience with Optimize ribbon (Preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New DAX function: EVALUTATEANDLOG [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New DAX functions: TOCSV and TOJSON [\[video\]](#) [\[blog\]](#) [\[article 1\]](#) [\[article 2\]](#)

## Data connectivity

- Many updated data connectors [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)

## Others

- Power BI Desktop infrastructure update (WebView2) [\[video\]](#) [\[blog\]](#)
- New Power BI color accent [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/q-ZUfL2sEek>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## October 2022 Update (2.110.341.0)

October's updates were scary fun, full of screaming great new features and monstrous improvements.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Reverse stack order for stacked column charts [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- Query performance improvements [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- Power BI Metrics [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>

## Analytics

- Quick measure suggestions - experimental feature (Preview) [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup> [\[article\]](#)

## Modeling

- Relationship editing in the properties pane (Preview) [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup> [\[article\]](#)

- DAX formula bar support for Power BI Desktop model view [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Introducing tenant setting for Power BI datamarts (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)

## Others

- Power BI Ideas website enhancements [\[blog\]](#)
- Update to release notes [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/Vlo7dJgr4WM>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## September 2022 Update (2.109.642.0)

September's updates were crisp and clean, like an autumn walk down a colorful treed pathway where new discoveries are just around each corner. We were all ready to meet friendly new

features, joining Power BI classmates for an exciting next round of learning.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Hierarchical axis by default [\[video\]](#) [\[blog\]](#)
- Improved display name for summarized fields [\[video\]](#) [\[blog\]](#)
- Conditional formatting for data labels [\[video\]](#) [\[blog\]](#)
- Translations support for composite models on Power BI semantic models and Analysis Services (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Mobile formatting options (general availability) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Information protection update [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Dremio (connector update) [\[video\]](#) [\[blog\]](#)
- Profisee (new connector) [\[video\]](#) [\[blog\]](#)
- Starburst Enterprise (connector update) [\[video\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)

## Others

- Paginated reports data preview [\[video\]](#) [\[blog\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/jlpqmNvas20>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

# August 2022 Update (2.108.564.0)

August's updates were like a summertime trip, full of interesting sights and new things to discover that brought a sense of adventure and imaginings of exciting things to come.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Conditional formatting for data labels [\[video\]](#) [\[blog\]](#)
- New *Select sensitivity label* dialog [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Data loss prevention policy update [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Metric visual (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Mobile formatting now supports text box visuals [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Modeling

- DAX Editor improvements [\[video\]](#) [\[blog\]](#)

## Data connectivity

- MariaDB (connector update) [\[video\]](#) [\[blog\]](#)
- Google Sheets (connector update) [\[video\]](#) [\[blog\]](#)
- Certified connectors availability in Power BI dataflows and datamarts [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)

## Others

- Visualizing views in Dynamics 365 with Power BI (general availability) [\[video\]](#) [\[blog\]](#)
- More ways to optimize Power BI performance [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Release notes and ideas update [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

# Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/Wiznd0dn29k> 

## Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## July 2022 Update (2.107.683.0)

July's updates were a sunny collection of bright spots for Power BI, warming ourselves with all the good things they brought.



This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

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- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

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## Important

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asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Error bars (generally available) [\[video\]](#) [\[blog\]](#)
- Filled Map for Azure Maps visual [\[video\]](#) [\[blog\]](#)
- Composite models on Power BI semantic models and Analysis Services (preview) [\[video\]](#) [\[blog\]](#)
- Bold, italics and underline for text in the header tooltip [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Metric visuals updates [\[video\]](#) [\[blog\]](#)

## Modeling

- New DAX function: NETWORKDAYS [\[video\]](#) [\[blog\]](#)
- Support for multi-role RLS in composite model [\[video\]](#) [\[blog\]](#)
- Query performance improvement [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Connect to datamarts (preview) [\[video\]](#) [\[blog\]](#)
- Display name support in the Dataverse connector [\[video\]](#) [\[blog\]](#)
- Many connector updates (update) [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New Power BI visuals' category list in AppSource [\[video\]](#) [\[blog\]](#)
- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- New visuals available [\[video\]](#) [\[blog\]](#)

## Others

- Release notes and ideas update [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/iVbxzo-L7TM>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## June 2022 Update (2.106.582.0)

This month's updates were raining down features, sprinkling us with all sorts of capabilities and functionality that were sure to bring sunny reports sometime soon.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

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### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New format pane (generally available) [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup> [\[article\]](#)
- Updates to error bars [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- Information protection updates [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- Table navigation improvements [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- Canvas Zoom in Teams and quick create [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>

## Modeling

- Composite models on SQL Server Analysis Services [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>

## Data connectivity

- Connect to datamarts (preview) [\[video\]](#) [\[blog\]](#)
- Many new data connectors [\[video\]](#) [\[blog\]](#)
- Many connector updates (update) [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- Many new visuals and updates [\[video\]](#) [\[blog\]](#)

## Others

- Power BI Desktop infrastructure update (WebView2) [\[video\]](#) [\[blog\]](#)
- Improved support for single sign-on (SSO) for all users [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

[https://www.youtube-nocookie.com/embed/gu\\_5Q3z-qpc](https://www.youtube-nocookie.com/embed/gu_5Q3z-qpc)

#### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## May 2022 Update (2.105.664.0)

This month had a spring in its step, with blossoming updates and sunshine-filled features that were sure to warm up your reports and models.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New Format pane updates (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Canvas zoom now generally available [\[video\]](#) [\[blog\]](#)
- Field parameters [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Managing composite models on Power BI semantic models [\[video\]](#) [\[blog\]](#)

- Data point rectangle select now generally available [\[video\]](#) [\[blog\]](#)
- Error bars for column and line combination charts (preview) [\[video\]](#) [\[blog\]](#)
- ArcGIS for Power BI visual updates [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Many new data connectors [\[video\]](#) [\[blog\]](#)
- Azure Databricks (update) [\[video\]](#) [\[blog\]](#)
- Denodo (update) [\[video\]](#) [\[blog\]](#)
- Google Sheets (update) [\[video\]](#) [\[blog\]](#)
- Autodesk Construction Cloud (update) [\[video\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- Many new visuals and updates [\[video\]](#) [\[blog\]](#)
- Charticulator now generally available [\[video\]](#) [\[blog\]](#)

## Others

- Power BI Desktop infrastructure update (WebView2) [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/LTdpe2ENW4M>

### ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

# April 2022 Update (2.104.702.0)

The Power BI team showered us with features, updates, and a collection of growing capabilities this month that customers and users were sure to enjoy.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

[https://powerbi.microsoft.com/blog/19024/preview/#post-19024-\\_Toc100064173](https://powerbi.microsoft.com/blog/19024/preview/#post-19024-_Toc100064173)

## Reporting

- New Format pane updates (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Tooltips now support drill actions for matrix, line and area charts (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Updates to required permissions when using composite models on Power BI semantic models [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Error bars for clustered column and bar charts (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Bookmark navigator now shows last selected bookmark per group [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data preparation

- Dynamic M query parameters now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Autodesk Construction Cloud (new connector) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Digital Construction Works Insights (update) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Dremio, Dremio Cloud (update) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Many new visuals and updates [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Others

- Windows 11 support [\[video\]](#) [\[blog\]](#) [\[article\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

# Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post.

<https://www.youtube-nocookie.com/embed/RDy9B0MIbs4> ↗

## ⓘ Note

The video might use earlier versions of Power BI Desktop or the Power BI service.

## March 2022 Update (2.103.661.0)

Lucky us, we had more compelling updates to Power BI in March than we could have wished for using a four-leaf clover.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) ↗. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) ↗. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

## ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be

asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New Format pane to be Generally Available in May (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Error bars (preview) [\[video\]](#) [\[blog\]](#)
- Dynamic format strings now supported for all chart elements [\[video\]](#) [\[blog\]](#)
- Updates to the Azure Maps visual (preview) [\[video\]](#) [\[blog\]](#) [\[Geocoding article\]](#) [\[Pie chart article\]](#)
- Sensitivity labels update [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Multi-row card selection [\[video\]](#) [\[blog\]](#)

## Data connectivity and preparation

- BitSight Security Ratings (new connector) [\[video\]](#) [\[blog\]](#)
- Bloomberg Enterprise Data and Analytics (update) [\[video\]](#) [\[blog\]](#)
- Anaplan (update) [\[video\]](#) [\[blog\]](#)
- FactSet Analytics (update) [\[video\]](#) [\[blog\]](#)
- AssembleViews (update) [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- Charticulator visual now certified [\[video\]](#) [\[blog\]](#)
- Many new visuals and updates [\[video\]](#) [\[blog\]](#)

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Developers

- A new improved method for deploying Power BI Embedded multi-tenancy solutions in scale [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

<https://www.youtube-nocookie.com/embed/6BpiFBCCS5A>

## February 2022 Update (2.102.683.0)

We loved the features we released in February. Some were flowery, some were chocolatey, others were downright sweet in their own unique way.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [\[blog\]](#): Most features are explained in a section in the monthly update blog post.
- [\[video\]](#): Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [\[article\]](#): Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New mobile formatting options (preview) [\[video\]](#) [\[blog\]](#)
- Sensitivity labels downstream inheritance (generally available) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Default label policies in Power BI (generally available) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Mandatory label policy (generally available) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New Format Pane (preview) - on by default [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Multi-row card selection [\[video\]](#) [\[blog\]](#)

## Data preparation

- Dynamic M Query Parameters now supports SQL Server and more data sources (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Amazon OpenSearch Server (new connector) [\[video\]](#) [\[blog\]](#)
- OpenSearch Project (new connector) [\[video\]](#) [\[blog\]](#)
- Digital Construction Works Insights (new connector) [\[video\]](#) [\[blog\]](#)
- Azure Databricks (update) [\[video\]](#) [\[blog\]](#)
- BQE Core (update) [\[video\]](#) [\[blog\]](#)
- Microstrategy (update) [\[video\]](#) [\[blog\]](#)
- Starburst Enterprise (update) [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- Many new visuals and updates [\[video\]](#) [\[blog\]](#)

## Other

- WebView2 now required [\[video\]](#) [\[blog\]](#)
- Power BI Release Plan app [\[video\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Developers

- New Power BI visuals category in AppSource [\[video\]](#) [\[blog\]](#)
- Expand entire level in Matrix [\[video\]](#) [\[blog\]](#)
- Dynamic format string support [\[video\]](#) [\[blog\]](#)

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

<https://www.youtube-nocookie.com/embed/vNK4xygN8Xw> ↗

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.
- It might not be possible to open files created or saved in newer releases of Power BI Desktop with previous versions of Power BI Desktop.
- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

## December 2021 Update (2.100.261.0)

This month's features were like a sleigh ride through your favorite snowy location, lighting up the season with all sorts of new things we had been wanting and asking for throughout the year.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:



- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) ↗. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) ↗. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important






Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) , or as a single executable containing all supported languages that you [download](#)  and install on your computer.

### Important







Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:





## Reporting

- Sparklines (preview) [\[video\]](#)  [\[blog\]](#) 
- New Format Pane updates (preview) [\[video\]](#)  [\[blog\]](#)  [\[article\]](#) 



## Data connectivity

- Azure Data Explorer (update) [\[video\]](#)  [\[blog\]](#) 
- TIBCO Data Virtualization now Generally Available [\[video\]](#)  [\[blog\]](#) 
- Many more updated connectors [\[video\]](#)  [\[blog\]](#) 

## Visuals

- New visuals in AppSource [\[video\]](#)  [\[blog\]](#) 
- Many new visuals and updates [\[video\]](#)  [\[blog\]](#) 

## Other

- Visualize your data quickly from Power Apps and Dynamics 365 apps (Preview) [\[video\]](#)  [\[blog\]](#) 

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

<https://www.youtube-nocookie.com/embed/iyAmYqTRCLY>

## November 2021 Update (2.99.563.0)

We were all thankful for the great things that Power BI served for our extended business intelligence family in November this year. Even better, there were enough features to feast on the next day, so invite your friends and even folks you don't know, sit down around this article, and share what you like best about what's on the menu.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version

numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New Format pane (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Page and bookmark navigators [\[video\]](#) [\[blog\]](#)
- Sort legend [\[video\]](#) [\[blog\]](#)
- Bold, italic, underline for text formatting [\[video\]](#) [\[blog\]](#)
- Text box superscript, subscript, and bulleted lists [\[video\]](#) [\[blog\]](#)
- Pie and donut chart rotation [\[video\]](#) [\[blog\]](#)
- Scorecard visual [\[video\]](#) [\[blog\]](#)
- Update on tenant-level Bing Maps feature switch [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Synapse Analytics (new connector) (preview) [\[video\]](#) [\[blog\]](#)
- Google Sheets (new connector) (preview) [\[video\]](#) [\[blog\]](#)
- Azure Cosmos DB V2 (new connector) (preview) [\[video\]](#) [\[blog\]](#)
- Delta Sharing (new connector) (preview) [\[video\]](#) [\[blog\]](#)
- Many more updated connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals in AppSource [\[video\]](#) [\[blog\]](#)
- Find report sample files easily in AppSource [\[video\]](#) [\[blog\]](#)
- Many new visuals [\[video\]](#) [\[blog\]](#)

## Other

- Automatic page refresh now supports DirectQuery for Power BI semantic models and Azure Analysis Services [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

[https://www.youtube-nocookie.com/embed/d\\_Un5tnKulc](https://www.youtube-nocookie.com/embed/d_Un5tnKulc)

## October 2021 Update (2.98.683.0)

There was a scary-good collection of features in this month's release, sure to make you want to dress up as your favorite character and go door-to-door telling your neighbors all about it - it's quite a bag of goodies.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) . Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

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### Important

Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Heat map layer - Azure Maps Visual (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- DirectQuery for Power BI semantic models and Azure Analysis Services [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Tenant-level features switch for Bing Maps [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Modeling

- SWITCH performance optimization [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Bitwise functions in DAX [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Cosmos DB V2 (preview) [\[video\]](#) [\[blog\]](#)
- SIS-CC-SDMX (preview) [\[video\]](#) [\[blog\]](#)
- Usercube (preview) [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Other

- ODBC support for paginated reports (generally available) [\[blog\]](#) [\[article\]](#)
- New instructor led training available for DAX in a day (Beta) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

<https://www.youtube-nocookie.com/embed/4uVNk9xH2S0>

# September 2021 Update (2.97.725.0)

We were falling into this month's release, with crisp morning updates and new season of interesting and compelling features.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New formatting options for buttons [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Toggle total columns in waterfall charts [\[video\]](#) [\[blog\]](#)
- Padding around visual title and border [\[video\]](#) [\[blog\]](#)
- Line chart series labels [\[video\]](#) [\[blog\]](#)
- Sensitivity label support for Power BI template files [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Insights (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Modeling

- Shortcut expression for CALCULATE now supports aggregation functions [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New parameter for XIRR function [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Making it easier to format based on a user's locale [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- The Power BI Connector in Power Automate [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Other

- New version of Power BI Report Builder [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

### ⓘ Note

This video might use earlier versions of Power BI Desktop or the Power BI service.

[https://www.youtube-nocookie.com/embed/lagiPEZ\\_eIY](https://www.youtube-nocookie.com/embed/lagiPEZ_eIY)

## August 2021 Update (2.96.701.0)

August's release was like a warm summer day, with rays of new updates shining down on all of our Power BI enthusiasts and customers.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Customize shape formatting [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- X-axis constant line improvements [\[video\]](#) [\[blog\]](#)
- Default sensitivity label policy in Power BI Desktop (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Sharing Q&A synonyms [\[video\]](#) [\[blog\]](#)

## Modeling

- New way of expressing Date and DateTime values [\[video\]](#) [\[blog\]](#)
- Evaluation configuration settings [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- New connector - Automy Data Analytics (Beta) [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New store experience for Power BI visuals [\[video\]](#) [\[blog\]](#) [\[site\]](#)

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/thmvP1I6QVs>

## July 2021 Update (2.95.804.0)

We celebrated this month's release with fireworks, parades and a whole host of independent data connectors and visualizations.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Small multiples now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Conditional formatting for more properties [\[video\]](#) [\[blog\]](#)
- Power Automate visual now available (preview) [\[video\]](#) [\[blog\]](#)
- Sensitivity labels in Power BI Desktop [\[video\]](#) [\[blog\]](#)
- Republish PBIX with option to not override label in destination [\[video\]](#) [\[blog\]](#)
- Inherit sensitivity label set to Excel files when importing data into Power BI [\[video\]](#) [\[blog\]](#)

## Analytics

- Sharing Q&A synonyms [\[video\]](#) [\[blog\]](#)

## Modeling

- New Model View now generally available [\[video\]](#) [\[blog\]](#)
- DirectQuery for Azure Analysis Services and Power BI semantic models (preview) [\[video\]](#) [\[blog\]](#)

## Data connectivity

- New connectors - Amazon Athena [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template apps

- Analyze email marketing performance using Mailchimp and ActiveCampaign [\[blog\]](#)

## Other

- Power BI Desktop installer changes [\[article\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/xNFedlQ59zA>

## June 2021 Update (2.94.781.0)

With June's release, warm and sunny updates were in the forecast for your reports.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.

- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates were new to Power BI Desktop this month:

## Reporting

- Paginated reports visual (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Area chart transparency sliders [\[video\]](#) [\[blog\]](#)
- Inner padding for continuous axes [\[video\]](#) [\[blog\]](#)
- Small multiples: responsiveness and conditional formatting (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Q&A improvements for inferred results [\[video\]](#) [\[blog\]](#)

## Modeling

- Format strings now persisted when using DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Data preparation

- DirectQuery support for dataflows now generally available [\[video\]](#) [\[Article\]](#) [\[blog\]](#)
- Select all operation is now supported for Dynamic M Query Parameters (preview) [\[video\]](#) [\[Article\]](#) [\[blog\]](#)

## Data connectivity

- New connectors - Assemble Views, BQE Core, SumTotal [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)
- Connector deprecation - Azure Consumption Insights [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template apps

- Template app one-click update and republish [\[video\]](#) [\[blog\]](#)
- Salesforce Analytics for Sales Managers [\[video\]](#) [\[blog\]](#)

## Other

- Power BI Desktop installer changes [\[article\]](#) [\[blog\]](#)
- June update of Power BI Report Builder [\[article\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

# Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/i-KYRwIJX6s> ↗

## May 2021 Update (2.93.384.0)

May brought an entire bouquet of blooming updates for Power BI.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) ↗. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) ↗. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) ↗, or as a single executable containing all supported languages that you [download](#) ↗ and install on your computer.

### Important

Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Modern visual tooltips (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Small multiples: now on by default, and updated roadmap (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#) [\[article 2\]](#)
- New field list now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Support for removing the sensitivity label in Power BI Desktop [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Smart Narratives and anomaly detection (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Q&A now supports DirectQuery for Power BI semantic models and Azure Analysis Services [\[video\]](#) [\[blog\]](#)

## Modeling

- DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Model view updates [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- New connector - EQUIS [\[video\]](#) [\[blog\]](#)
- Updates to many connectors [\[video\]](#) [\[blog\]](#)
- Connector deprecation - Microsoft Graph Security [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template apps

- Dataflows Snapshot Analysis [\[video\]](#) [\[blog\]](#)

## Developers

- Dialog boxes support for Power BI custom visuals [\[video\]](#) [\[blog\]](#)
- Displaying a warning icon for a custom visual [\[video\]](#) [\[blog\]](#)

## Other

- Share and collaborate in Excel for the web connected to Power BI [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/WosolBDuU-I>

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.
- It might not be possible to open files created or saved in newer releases of Power BI Desktop with previous versions of Power BI Desktop.
- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

# April 2021 Update (2.92.706.0)

Spring was in the air, and so was a great collection of updates for Power BI.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Power Automate for Power BI (preview) [\[video\]](#) [\[blog\]](#)
- Small multiples: padding controls and combo chart support (preview) [\[video\]](#) [\[blog\]](#)
- New and improved shapes [\[video\]](#) [\[blog\]](#)
- Invert axis and continuous axis sorting [\[video\]](#) [\[blog\]](#)

## Modeling

- DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- CROSSFILTER supports many-to-many relationships [\[video\]](#) [\[blog\]](#)
- Performance improvements to IF and SWITCH functions [\[video\]](#) [\[blog\]](#)

## Data connectivity

- New connector - Bloomberg Data and Analytics [\[video\]](#) [\[blog\]](#)
- New connector - SoftOne BI [\[video\]](#) [\[blog\]](#)
- Text/CSV by example now generally available [\[video\]](#) [\[blog\]](#)
- Automatic table detection from Excel files now generally available [\[video\]](#) [\[blog\]](#)
- Automatic table detection from JSON files now generally available [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Developers

- API v3.6.0 now available [\[video\]](#) [\[blog\]](#)

## Other

- Simplifying collection of diagnostic information [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#) .

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/G4QzWDv4s6M> [↗](#)

You can also download previous versions of Power BI Desktop if your organization requires it. We always recommend that you use the most recent version of Power BI Desktop, rather than a previous version. All previous versions have the following limitations:

- Previous releases of Power BI Desktop are not being serviced - you should always use the most recent release for the latest features and updates.
- It might not be possible to open files created or saved in newer releases of Power BI Desktop with previous versions of Power BI Desktop.
- If you receive a warning when loading a report saved in a newer release of Power BI Desktop, then save that report in the previous version, you lose any information related to new features.
- We only archive the English versions of Power BI Desktop.

## March 2021 Update (2.91.701.0)

We felt lucky like a four-leaf clover to deliver these March Power BI updates to our community.

This article describes updates to **Power BI Desktop** and the **Power BI service**. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

The links beside each feature in the list are follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#) [↗](#) . If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) [↗](#) . Regardless of

how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

### Important

Power BI Desktop is no longer be supported on Windows 7. Power BI Desktop is supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Advanced data selection in Azure Maps visual [\[video\]](#) [\[blog\]](#)
- Color picker updates [\[blog\]](#)
- Updates to the new Field List (preview) [\[blog\]](#)
- Word wrap in Small Multiples titles (preview) [\[video\]](#) [\[blog\]](#)
- Updates to background settings on Small Multiples (preview) [\[blog\]](#)

## Analytics

- X-axis constant line for line charts [\[video\]](#) [\[blog\]](#)

## Modeling

- Model view user interface (preview) [\[video\]](#) [\[blog\]](#)
- IF.EAGER [\[video\]](#) [\[blog\]](#)

- CALCULATE filters now easier to use [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Kerberos-based SSO for Denodo [\[video\]](#) [\[blog\]](#)
- Certified connectors [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template Apps

- Download PBIX files for installed template apps [\[video\]](#) [\[blog\]](#)
- Analyze popular stocks with Power BI [\[video\]](#) [\[blog\]](#)
- Additional template apps [\[video\]](#) [\[blog\]](#)

## Other

- Windows 7 deprecation [\[video\]](#) [\[blog\]](#)
- Certificate revocation check controls now available in Desktop interface [\[video\]](#) [\[blog\]](#)
- External Tools integration with Power BI Desktop generally available [\[blog\]](#) [\[article\]](#)
- Instructor-led training for Power BI [\[blog\]](#)
- Power BI Desktop change log [\[blog\]](#) [\[article\]](#)

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

For detailed information about each new feature, see [Power BI feature summary blog post](#).

## Power BI monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/r88EE4IzZIE>

# February 2021 Update (2.90.702.0)

Our February Power BI updates were better than a heart-shaped box of chocolates.

If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

## Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

## Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop will be supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Search Bar [\[video\]](#) [\[blog\]](#) [\[article\]](#)

- Model View Updates (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New Field List (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Small Multiples (preview) - gridlines and background colors [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Color picker [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Smart guides for aligning objects - mobile layout view [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New filter operations - is empty, is not empty [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Certificate revocation check for web connections - granular control [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Anomaly detection now in the ribbon [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Modeling

- Enhanced semantic model metadata format [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- New Teams Analytics connector [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Snowflake - support for custom roles [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Parquet Files - connector available in Power BI Desktop [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Hive LLAP - support for Windows authentication [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Salesforce - API update [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- SAP HANA and BW - new documentation [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Other

- New icon update [\[video\]](#) [\[blog\]](#) [\[article\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

# Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/h4JL2IITJ7U>

## December 2020 Update (2.88.321.0)

Our December Power BI updates dazzled us all like a snowy lane filled with lights and sleigh rides.

### Power BI Desktop

If you're running Windows 10, you can get the most recent version of Power BI Desktop from the [Windows Store](#). You can also get the latest version from the [Download Center](#), as a single executable containing all supported languages that you install on your computer.

Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version.

The following updates are new to Power BI Desktop this month:

## Reporting

- DirectQuery for Power BI semantic models and Azure Analysis Services (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Small multiples (preview) [\[video\]](#) [\[blog\]](#)
- Data protection sensitivity labels in Power BI Desktop (preview) [\[video\]](#) [\[blog\]](#)
- Increased rectangle select data point limit [\[video\]](#) [\[blog\]](#)
- Selection pane now available in mobile layout view [\[video\]](#) [\[blog\]](#)
- Automatic page refresh for Analysis Services sources [\[video\]](#) [\[blog\]](#)

## Data preparation

- Changes to Power Query and dataflows [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Microsoft Dataverse connector [\[video\]](#) [\[blog\]](#)
- Azure Time Series Insights update [\[video\]](#) [\[blog\]](#)
- SurveyMonkey update [\[video\]](#) [\[blog\]](#)
- Cognite update [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/68YvRs49VZM>

## November 2020 Update (2.87.261.0)

Our November Power BI updates included an entire family gathering of new and improved features; they were a feast of goodness.

The monthly blog and video updates for Power BI Desktop now also includes what's new updates for Power BI mobile and the Power BI service. In this section choose the tab for Power BI Desktop or the Power BI service. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

Get the latest version of Power BI Desktop from the [Download Center](#) <sup>↗</sup>. If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#) <sup>↗</sup>. Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#) <sup>↗</sup>, or as a single executable containing all supported languages that you [download](#) <sup>↗</sup> and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop will be supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- New Field List (preview) [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup>
- New Model View (preview) [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup> [\[article\]](#) <sup>↗</sup>
- Apply all filters now generally available [\[video\]](#) <sup>↗</sup> [\[blog\]](#) <sup>↗</sup> [\[article\]](#) <sup>↗</sup>

- Visual zoom slider [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Data point rectangle select extended to Map visual [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Certificate revocation check for web connections [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Paginated reports updates [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Anomaly detection (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Q&A now supports partial matching data values [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data connectivity

- Hive LLAP connector now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New data connectors - Actian, Anaplan, Starburst Presto [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#) [\[article\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

[https://www.youtube-nocookie.com/embed/DT\\_tOas5Ylo](https://www.youtube-nocookie.com/embed/DT_tOas5Ylo)

# October 2020 Update (2.86.321.0)

Our October Power BI updates are a bucket full of spooky-good treats that you can sort and enjoy for weeks to come.

The monthly blog and video updates for Power BI Desktop now also includes what's new updates for Power BI mobile and the Power BI service. This article discusses the updates for Power BI Desktop and the Power BI service. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop will be supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Canvas watermarks [\[video\]](#) [\[blog\]](#)

- Personalize visuals is now generally available [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Data point rectangle select for Treemap (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics

- Export data from Q&A visual [\[video\]](#) [\[blog\]](#)

## Modeling

- Performance improvements to IF and SWITCH functions [\[blog\]](#)

## Data preparation

- Dynamic M Query Parameters (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Automatic Table Detection from Excel files [\[video\]](#) [\[blog\]](#)
- Automatic Table Detection from JSON files [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Broader geographical support for Power Platform Dataflows connector [\[video\]](#) [\[blog\]](#)
- MariaDB now supports DirectQuery [\[video\]](#) [\[blog\]](#)
- Updated SharePoint Online List connector [\[video\]](#) [\[blog\]](#)
- New data connectors - Spigit and eWay-CRM [\[video\]](#) [\[blog\]](#)

## Visuals

- Extended administrator capability features now generally available [\[video\]](#) [\[blog\]](#)
- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template Apps

- Simplified installation for template apps [\[video\]](#) [\[blog\]](#)
- Find template apps from Power BI Desktop [\[video\]](#) [\[blog\]](#)

## Other

- Export data source to PBIDS in Power BI Desktop [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Icon update for Power BI [\[video\]](#) [\[blog\]](#)
- Power BI Desktop splash screen dismiss [\[video\]](#) [\[blog\]](#)

For detailed information about each of these features, see [Power BI Desktop feature summary blog post](#).

#### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/LveNuQqV5xk>

## September 2020 Update (2.85.284.0)

Our September Power BI Desktop updates are cool and crisp, like the coming of fall and the turning of leaves.

Also new this month, the monthly blog and video updates for Power BI Desktop now also includes what's new updates for Power BI mobile and the Power BI service. This article discusses the updates for Power BI Desktop and the Power BI service. To learn about updates for mobile, check out [What's new in the mobile apps for Power BI](#).

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

#### ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI monthly update video](#).

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop will be supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Analytics

- Smart narratives (preview) [\[video\]](#) [\[blog\]](#)
- Q&A now supports arithmetic operations [\[video\]](#) [\[blog\]](#)

## Reporting

- Data point rectangle select for additional charts [\[video\]](#) [\[blog\]](#)
- Added general visual option to maintain layer order [\[video\]](#) [\[blog\]](#)
- Search for a workspace during publish [\[video\]](#) [\[blog\]](#)
- Total labels for stacked visuals [\[video\]](#) [\[blog\]](#)
- Mobile authoring enhancements [\[video\]](#) [\[blog\]](#)

## Modeling

- Enhanced semantic model Metadata is now generally available [\[video\]](#) [\[blog\]](#)
- Performance improvements to aggregation expressions involving columns of currency data type [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Databricks [\[video\]](#) [\[blog\]](#)
- MariaDB [\[video\]](#) [\[blog\]](#)

- Hexagon PPM Smart API [\[video\]](#) [\[blog\]](#)
- Other data connectivity updates [\[video\]](#) [\[blog\]](#)

## Visuals

- New visuals from various providers [\[video\]](#) [\[blog\]](#)

## Template apps

- Multichannel attribution dashboard [\[video\]](#) [\[blog\]](#)
- Workspace analytics dashboard [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/gPGy18Yo0Go>

## August 2020 Update (2.84.461.0)

Our August Power BI Desktop updates were full of compelling new features and capabilities.

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is

supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

### Important

Power BI Desktop is no longer supported on Windows 7. Power BI Desktop will be supported on Windows 8 or newer versions of Windows, for the most recent release of Power BI Desktop only.

The following updates are new to Power BI Desktop this month:

## Reporting

- Perspectives support for Personalize visuals (preview) [\[video\]](#) [\[blog\]](#)
- Rectangular lasso select for data points (preview) [\[video\]](#) [\[blog\]](#)
- Added dynamic formatting support to more visuals [\[video\]](#) [\[blog\]](#)

## Analytics

- DirectQuery support for Q&A [\[video\]](#) [\[blog\]](#)

## Visuals

- Multiple new visuals from various companies [\[video\]](#) [\[blog\]](#)
- ArcGIS Maps updates [\[video\]](#) [\[blog\]](#)
- Extending admin capabilities for AppSource visuals [\[video\]](#) [\[blog\]](#)

## Template apps

- Agile CRM Analytics for Dynamics 365 [\[video\]](#) [\[blog\]](#)

## Data preparation

- Text/CSF by Example (preview) [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Cherwell connector [\[video\]](#) [\[blog\]](#)
- Automation Anywhere connector [\[video\]](#) [\[blog\]](#)
- Acterys connector [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/TPsV7N4bZZg>

## July 2020 Update (2.83.5894.661)

Our July Power BI Desktop updates were a celebration of new features and capabilities worthy of fireworks, sunny picnics and community barbecues.

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is updated and released on a monthly basis, incorporating customer feedback and new features. Only the most recent version of Power BI Desktop is supported; customers who contact support for Power BI Desktop will be asked to upgrade to the most recent version. You can get the most recent version of Power BI Desktop from the [Windows Store](#), or as a single executable containing all supported languages that you [download](#) and install on your computer.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

The following updates are new to Power BI Desktop this month:

## Reporting

- Gradient layout [\[video\]](#) [\[blog\]](#)
- Ability to further customize slicer header text [\[video\]](#) [\[blog\]](#)
- Relative time filter is now generally available [\[video\]](#) [\[blog\]](#)

## Analytics

- Enhancements to Q&A [\[video\]](#) [\[blog\]](#)

## Visuals

- Azure Maps visual (preview) [\[video\]](#) [\[blog\]](#)
- Updates to Multi-Axis chart by XViz [\[video\]](#) [\[blog\]](#)

## Modeling

- Support for Excel financial functions [\[video\]](#) [\[blog\]](#)
- Model view enabled for live connect is now generally available [\[video\]](#) [\[blog\]](#)

## Data preparation

- Global option to disable automatic type detection [\[video\]](#) [\[blog\]](#)

## Template apps

- YouTube Analytics by MAQ Software [\[video\]](#) [\[blog\]](#)

## Other features

- Launch external tools from Power BI Desktop (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/BCNYMJKyjEo>

## June 2020 Update (2.82.5858.301)

Our June Power BI Desktop felt like a fresh new beginning filled with new capabilities, generally available features, and many opportunities to get out into your world of data and interact.

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

The following updates are new to Power BI Desktop this month:

## Reporting

- Enhancements to mobile layout authoring [\[video\]](#) [\[blog\]](#)
- Automatic page refresh now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Hierarchical slicer now generally available [\[video\]](#) [\[blog\]](#)
- Modern ribbon now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- RLS now supported for Featured Tables in Excel's Data Types gallery [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics

- AI insights now generally available [\[video\]](#) [\[blog\]](#)

## Visuals

- Line chart dot formatting options [\[video\]](#) [\[blog\]](#)
- Many new visuals from multiple vendors [\[video\]](#) [\[blog\]](#)

## Template apps

- Agile HR Analytics [\[video\]](#) [\[blog\]](#)
- Uber User Data Report [\[video\]](#) [\[blog\]](#)

## Modeling

- Model view enabled for live connect (preview) [\[video\]](#) [\[blog\]](#)

- Updates to Model view [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Palantir Foundry connector [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Other features

- New Power BI trainings [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/WUo8TnHNNHYM>

## May 2020 Update (2.81.5831.621)

We hope our May Power BI Desktop brought you new insights, new capabilities, and a healthy dose of positive outlook for our global community.

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### ⓘ Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

The following updates are new to Power BI Desktop this month:

## Reporting

- Curate featured tables for Excel (preview) [\[video\]](#) [\[blog\]](#)
- Apply all filters (preview) [\[video\]](#) [\[blog\]](#)
- Enhancements to change detection (preview) [\[video\]](#) [\[blog\]](#)
- Drillthrough button action is now generally available [\[video\]](#) [\[blog\]](#)
- Enhancements to page navigation action [\[video\]](#) [\[blog\]](#)
- Buttons now support fill images [\[video\]](#) [\[blog\]](#)
- Drop shadow support for visuals [\[video\]](#) [\[blog\]](#)
- Filter pane migration [\[video\]](#) [\[blog\]](#)

## Analytics

- Decomposition tree now generally available [\[video\]](#) [\[blog\]](#)

## Visuals

- New Power BI visuals [\[video\]](#) [\[blog\]](#)
- Power Apps visual now compatible with all supported languages [\[video\]](#) [\[blog\]](#)

## Modeling

- List separator and decimal symbol now default to standard DAX separators [\[video\]](#) [\[blog\]](#)

## Data preparation

- DirectQuery on Dataflows [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Web by example now automatically suggests tables by default [\[video\]](#) [\[blog\]](#)
- Enhancements to Query Diagnostics: Privacy Level partitions [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Many new data connectors [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Other features

- Semantic model impact analysis [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/JtuHlslowxk>

## April 2020 Update (2.80.5803.282)

We were grateful to be able to share our April Power BI update with you, our global community.

### Power BI Desktop

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

The following updates are new to Power BI Desktop this month:

## Reporting

- Personalize visuals (preview) [\[video\]](#) [\[blog\]](#)
- Change detection for page refresh (preview) [\[video\]](#) [\[blog\]](#)
- Relative time filter (preview) [\[video\]](#) [\[blog\]](#)
- Rectangular lasso select across visuals [\[video\]](#) [\[blog\]](#)
- Conditional formatting for totals and subtotals in table and matrix [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Customize theme dialog is now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Improved discoverability for conditional formatting [\[video\]](#) [\[blog\]](#)

## Analytics

- DirectQuery support for AI visuals [\[video\]](#) [\[blog\]](#)
- Decomposition tree now supports tooltips [\[video\]](#) [\[blog\]](#)
- Q&A updates [\[video\]](#) [\[blog\]](#)

## Visuals

- New visualization icons [\[video\]](#) [\[blog\]](#)
- New Power BI visuals [\[video\]](#) [\[blog\]](#)

## Template apps

- Power Platform Center of Excellence StartKit [\[video\]](#) [\[blog\]](#)
- Azure Cognitive Search: analyze logs and metrics [\[video\]](#) [\[blog\]](#)
- COVID-19 apps [\[video\]](#) [\[blog\]](#)

## Data preparation

- Enhancements to Query diagnostics [\[video\]](#) [\[blog\]](#)

## Data connectivity

- CDM Folder view for Azure Data Lake Storage Gen2 [\[video\]](#) [\[blog\]](#)

## Other features

- New instructor-led training [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

[https://www.youtube-nocookie.com/embed/q2Hfn\\_Rhb3E](https://www.youtube-nocookie.com/embed/q2Hfn_Rhb3E)

## March 2020 Update (2.79.5768.562)

We felt lucky as a four-leaf clover to share our March Power BI update with you.

Get the latest version of Power BI Desktop from the [Download Center](#). If you're running Windows 10, you can also get Power BI Desktop from the [Microsoft Store](#). Regardless of how you install Power BI Desktop, the monthly versions are the same, although the version numbering might differ. For more information about downloading and installing Power BI Desktop, see [Get Power BI Desktop](#).

### Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

You can also watch the entire [Power BI Desktop monthly update video](#).

The following updates are new to Power BI Desktop this month:

## Reporting

- New action types for buttons [\[video\]](#) [\[blog\]](#)
- Multi-column sort for tables [\[video\]](#) [\[blog\]](#)
- Dual axis for line chart [\[video\]](#) [\[blog\]](#)
- Filter pane search [\[video\]](#) [\[blog\]](#)
- Updates to decomposition tree visual [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New ribbon is now on by default [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Modeling

- New DAX function: COALESCE [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Visuals

- Updates to ArcGIS Maps [\[video\]](#) [\[blog\]](#)
- New Power BI visuals [\[video\]](#) [\[blog\]](#)

## Template apps

- Azure DevOps dashboard by Data Maru [\[video\]](#) [\[blog\]](#)
- TeamsPower by Encamina [\[video\]](#) [\[blog\]](#)

## Data preparation

- Query diagnostics now generally available [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Hive LLAP connector (preview) [\[video\]](#) [\[blog\]](#)
- Cognite connector (preview) [\[video\]](#) [\[blog\]](#)

## Other features

- Enhanced semantic model metadata (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Using default system credentials for web proxy [\[video\]](#) [\[blog\]](#)
- New instructor-led administrator in a day training [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

[https://www.youtube-nocookie.com/embed/DMjvJGGB\\_LQ](https://www.youtube-nocookie.com/embed/DMjvJGGB_LQ)

# February 2020 Update (2.78.5740.642)

We loved our February updates, and felt our new features were better than a heart-shaped box of chocolates.

## Power BI Desktop

### Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

The following updates were new to Power BI Desktop this month:

## Data management

- Incremental refresh is now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Reporting

- Hierarchical slicer (preview) [\[video\]](#) [\[blog\]](#)
- Updates to the new ribbon (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Modeling

- New DAX functions: FirstNonBlankValue, LastNonBlankValue [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Visuals

- New custom visuals [\[video\]](#) [\[blog\]](#)

## Template apps

- Microsoft 365 usage analytics [\[video\]](#) [\[blog\]](#)
- NFL analytics by P3 [\[video\]](#) [\[blog\]](#)
- Acterys for Quickbooks, Zero and WorkflowMax [\[video\]](#) [\[blog\]](#)

## Data preparation

- Query diagnostics - support for users who aren't administrators [\[video\]](#) [\[blog\]](#)

## Data connectivity

- MicroStrategy connector (generally availability) [\[video\]](#) [\[blog\]](#)
- FHIR connector (generally availability) [\[video\]](#) [\[blog\]](#)
- Additional connectors: Factset, TIBCO, Jamf Pro, Asana [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop feature summary blog post](#).

Check out [what's new in the mobile apps for Power BI](#).

### ⓘ Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/TN61JvbUAxk>

# December 2019 Update (2.76.5678.661)

Our December updates were as fun as a bobsled ride down a snow-covered hill.

Power BI Desktop

### ⓘ Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

The following updates were new to Power BI Desktop this month:

## Reporting

- Theming updates (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Export the current theme (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Setting table column or matrix value as a custom URL [\[video\]](#) [\[blog\]](#)
- KPI visual formatting settings [\[video\]](#) [\[blog\]](#)
- New decomposition tree formatting [\[video\]](#) [\[blog\]](#)
- Filter pane toggle button in the new ribbon [\[video\]](#) [\[blog\]](#)
- Automatic page refresh query details [\[video\]](#) [\[blog\]](#)

## Analytics

- Load more for Analyze insights [\[video\]](#) [\[blog\]](#)
- New DAX function: Quarter [\[video\]](#) [\[blog\]](#)

## Visuals

- Personalizing the Visuals pane (generally availability) [\[video\]](#) [\[blog\]](#)
- New Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Data Lake Storage Gen2 connector (generally availability) [\[video\]](#) [\[blog\]](#)
- Power Platform Dataflows connector (generally availability) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- PostgreSQL connector now includes the Npgsql provider [\[video\]](#) [\[blog\]](#)
- AtScale connector (general availability) [\[video\]](#) [\[blog\]](#)
- Azure Time Series Insights connector [\[video\]](#) [\[blog\]](#)

- Data Virtuality connector [\[video\]](#) [\[blog\]](#)
- Zucchetti HR Infinity connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- Updates to AI Insights functions (preview) [\[video\]](#) [\[blog\]](#)

## Template apps

- Omnichannel insights for Dynamics 365 [\[video\]](#) [\[blog\]](#)
- Customer service analytics for Dynamics 365 [\[video\]](#) [\[blog\]](#)
- Microsoft Forms Pro for Customer Services [\[video\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop December 2019 feature summary](#).

Check out [what's new in the mobile apps for Power BI](#).

### Note

See the [data sources available to Power BI Desktop](#). Our list is always growing, so check back often.

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

<https://www.youtube-nocookie.com/embed/eCEwgZsVUOs>

# November 2019 Update (2.75.5649.341)

Our November updates were as welcome as a happy family gathering.

Power BI Desktop

### Important

Power BI Desktop is released only as a single .exe file, which contains all supported languages. The .msi version is no longer being released.

The links beside each feature in the Power BI Desktop update list are interpreted as follows:

- [blog]: Most features are explained in a section in the monthly update blog post.
- [video]: Some features have a video excerpt that discusses the feature, which plays in a new browser tab.
- [article]: Some features have an article that provides more detail.
- The remaining features are self-explanatory and don't need an article or video.

The following updates were new to Power BI Desktop this month:

## User experience

- Updated ribbon (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Reporting

- Decomposition tree visual (preview) [\[video\]](#) [\[blog\]](#)

## Analytics

- Conditionally format button formatting [\[video\]](#) [\[blog\]](#)

## Visuals

- ArcGIS Maps for Power BI update [\[video\]](#) [\[blog\]](#)
- New xViz visuals [\[video\]](#) [\[blog\]](#)
- ZoomCharts Drill-Down Waterfall visual [\[video\]](#) [\[blog\]](#)
- Financial Reporting Matrix by Profitbase [\[video\]](#) [\[blog\]](#)
- Distribution [\[video\]](#) [\[blog\]](#)
- Tree [\[video\]](#) [\[blog\]](#)

## Data connectivity

- LinkedIn Sales Navigator connector [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Edit SAP variables experience (general availability) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Product Insights connector [\[video\]](#) [\[blog\]](#)

## Data transformation

- AI functions in Power Query (preview) [\[video\]](#) [\[blog\]](#)
- Web by Example connector - support for extracting links [\[video\]](#) [\[blog\]](#)

## Template apps

- LinkedIn Sales Navigator for Sales Operations [\[video\]](#) [\[article\]](#) [\[blog\]](#)

For detailed information about each of these new features, see [Power BI Desktop November 2019 feature summary](#).

Check out [what's new in the mobile apps for Power BI](#).

## Power BI Desktop monthly update video

The following video describes each of these updates. You can also watch this video from the blog post:

[https://www.youtube-nocookie.com/embed/kVli3Vm\\_kDo](https://www.youtube-nocookie.com/embed/kVli3Vm_kDo)

# October 2019 Update (2.74.5619.621)

Our October updates were as fun as a pumpkin patch run, and more exciting than a midnight tour through a haunted mansion.

### Power BI Desktop

You can now [download the latest version of Power BI Desktop](#), now delivered as a single .exe file that contains all supported languages. If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

#### Important

Power BI Desktop is only released as a single .exe file that contains all supported languages. The .msi version is no longer being released.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to **Power BI Desktop** this month:

## Reporting

- Automatic page refresh for DirectQuery [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics

- The new Q&A visual [\[video\]](#) [\[blog\]](#)
- Improved user experience for Q&A [\[video\]](#) [\[blog\]](#)
  - Improved drop-down control
  - Red and blue underlines
  - Improved visual results
- Natural language improvements for Q&A [\[video\]](#) [\[blog\]](#)
  - Integration with Office / Bing thesaurus
  - Support for measure tables, and better handling of table names and ambiguity
- Q&A tooling (preview) [\[video\]](#) [\[blog\]](#)
  - Review questions
  - Teach Q&A
  - Review all changes made
- Support for SSAS and Azure AS, including RLS [\[video\]](#) [\[blog\]](#)

## Visuals

- PowerApps visual now included by default [\[video\]](#) [\[blog\]](#)
- New xViz visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Sagra Emigo connector generally available [\[video\]](#) [\[blog\]](#)
- Microsoft Cost Management connector updated [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New Workplace Analytics connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- Query diagnostics [\[video\]](#) [\[blog\]](#)
- Data profiling enhancements [\[video\]](#) [\[blog\]](#)

## Template apps

- Project Web App [\[video\]](#) [\[blog\]](#)

## Other

- New file format: .PBIDS [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Performance improvements for modeling operations [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/A8A9baUQsXQ>

## September 2019 Update (2.73.5586.561)

Our September updates were like an exciting return to school - new things to learn, updates to friends we missed over the summer, and opportunities to apply what we know into better future reports.

### Power BI Desktop

You can now [download the latest version of Power BI Desktop](#), now delivered as a single .exe file that contains all supported languages. If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even

though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

### **Important**

Power BI Desktop is only released as a single .exe file that contains all supported languages. The .msi version is no longer being released.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to **Power BI Desktop** this month:

## Reporting

- Color and text classes in themes [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New default themes [\[video\]](#) [\[blog\]](#)
- Personalized visualization pane improvements (preview) [\[video\]](#) [\[blog\]](#)

## Analytics

- Custom format strings [\[video\]](#) [\[blog\]](#)
- Conditional formatting for more visual formatting options [\[video\]](#) [\[blog\]](#)
- Drillthrough discoverability improvement [\[video\]](#) [\[blog\]](#)
- New DAX expressions: REMOVEFILTERS and CONVERT [\[video\]](#) [\[blog\]](#)

## Visuals

- PowerApps visual now generally available [\[video\]](#) [\[blog\]](#)

## Data connectivity

- PostgreSQL connector enhancements [\[video\]](#) [\[blog\]](#)

## Data preparation

- Copy to clipboard from data profiling [\[video\]](#) [\[blog\]](#)

## Template apps

- Google Analytics report [\[blog\]](#)

## Other

- Performance improvements for multi-dimensional models [\[video\]](#) [\[blog\]](#)
- Query performance improvements for DirectQuery models [\[video\]](#) [\[blog\]](#)  
<https://youtu.be/neq0THnRJzo?t=1208>

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/neq0THnRJzo>

## August 2019 Update (2.72.5556.801)

Our August updates were hot and shone brightly on the reports you create in Power BI.

### Power BI Desktop

You can now [download the latest version of Power BI Desktop](#), now delivered as a single .exe file that contains all supported languages. If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- [\[video\]](#) excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an [\[article\]](#) that provides more detail.
- Most features are explained in the monthly update [\[blog\]](#) post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** this month:

## Reporting

- Grouping visuals [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Filter pane migration [\[video\]](#) [\[blog\]](#)
- Icon style picker for conditional formatting of icons [\[video\]](#) [\[blog\]](#)
- Conditional formatting warnings [\[video\]](#) [\[blog\]](#)

## Analytics

- Key influencers visual improvements, general availability [\[video\]](#) [\[blog\]](#)

## Visuals


- New Power BI visuals and updates [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Support for SAP HANA HDI Containers [\[video\]](#) [\[blog\]](#)
- Edit SAP variables in the Power BI service (preview) [\[video\]](#) [\[blog\]](#)
- PostgreSQL DirectQuery [\[video\]](#) [\[blog\]](#)
- MarkLogic connector now generally available [\[video\]](#) [\[blog\]](#)
- New Power Platform category within Get Data [\[video\]](#) [\[blog\]](#)

## Template apps

- Facebook Pages - basic analytics [\[blog\]](#)

 **Note**

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/sf4n7VXoQHY>

## July 2019 Update (2.71.5523.641)

Our July updates were skyrocketing with colorful bursts of new features and functionality for your Power BI.

### Power BI Desktop

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** this month:

### Reporting

- Icon sets for table and matrix [\[video\]](#) [\[blog\]](#)
- Percent support for conditional formatting by rules [\[video\]](#) [\[blog\]](#)
- New filter pane is now generally available [\[video\]](#) [\[blog\]](#)

- Data colors support when using play axis on scatter charts [\[video\]](#) [\[blog\]](#)
- Performance improvements when using relative date and dropdown slicers [\[video\]](#) [\[blog\]](#)

## Analytics

- Counts for Key influencers visual (preview) [\[video\]](#) [\[blog\]](#)
- Aggregations improvements [\[video\]](#) [\[blog\]](#)

## Visuals

- PowerApps visual is now certified [\[video\]](#) [\[blog\]](#)
- Three new Power BI visuals and updates [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Data Lake Storage Gen2 connector (beta) [\[video\]](#) [\[blog\]](#)
- Dynamics 365 Customer Insights connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- New transform: Split column by positions [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/I7OMRUF9UYg>

# June 2019 Update (2.70.5494.561)

Our June updates spread sunshine and blue skies on your reports, with a refreshing and bright new color scheme for your Power BI, and a host of other improvements.

## Power BI Desktop

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** this month:

## Reporting

- Updated pane design [\[video\]](#) [\[blog\]](#)
- Visual level filters for slicers [\[video\]](#) [\[blog\]](#)
- Sorting for the performance analyzer pane [\[video\]](#) [\[blog\]](#)
- Conditional formatting updates for formatting options [\[video\]](#) [\[blog\]](#)
- Visual header tooltips [\[video\]](#) [\[blog\]](#)
- Table and matrix total label customization [\[video\]](#) [\[blog\]](#)
- Sync slicer support for hierarchy slicer [\[video\]](#) [\[blog\]](#)
- Consistent font sizes across visuals [\[video\]](#) [\[blog\]](#)

## Analytics

- Key influencers visual updates (preview) [\[video\]](#) [\[blog\]](#)
  - Key influencers with Live connect to Power BI semantic models
  - Key influencers accessibility
  - Support for Cloud RLS
- Manage aggregations dialog accessibility [\[video\]](#) [\[blog\]](#)

## Modeling

- New == DAX comparison operator [\[video\]](#) [\[blog\]](#)

## Visuals

- Personalized visualization pane (preview) [\[video\]](#) [\[blog\]](#)
- Three new Power BI visuals and updates [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Connect to shared and certified semantic models [\[video\]](#) [\[blog\]](#)
- Common Data Service connector is now generally available [\[video\]](#) [\[blog\]](#)
- Azure Data Explorer connector is now generally available [\[video\]](#) [\[blog\]](#)
- Enhancements to the Cosmos DB connector [\[video\]](#) [\[blog\]](#)
- Entersoft data connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- Improvements to M Intellisense [\[video\]](#) [\[blog\]](#)

### 📌 Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/7k-nP38uHyQ>

## May 2019 Update (2.69.5467.1251)

Our May updates bloomed in your garden of great reports, with compelling new features and a flower pot full of colorful, beautiful visuals.

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** this month:

## Reporting

- Performance Analyzer pane [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Filter pane improvements (preview) [\[video\]](#) [\[blog\]](#)
- Table and matrix keyboard navigation [\[video\]](#) [\[blog\]](#)
- Line data label position control [\[video\]](#) [\[blog\]](#)
- KPI visual indicator text size control [\[video\]](#) [\[blog\]](#)

## Analytics

- Key influencers visual improvements (preview) [\[video\]](#) [\[blog\]](#)
  - Binning support
  - Formatting options
  - Mobile support

## Modeling

- Disable auto-date tables for new reports [\[video\]](#) [\[blog\]](#)
- Update to the ALLSELECTED DAX function [\[video\]](#) [\[blog\]](#)

## Visuals

- ArcGIS maps for Power BI updates [\[video\]](#) [\[blog\]](#)
- Six new Power BI visuals and updates [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Essbase connector - support for Native Query (MDX) [\[video\]](#) [\[blog\]](#)
- Intune Data Warehouse connector [\[video\]](#) [\[blog\]](#)
- Tenforce connector [\[video\]](#) [\[blog\]](#)
- Roamlr connector [\[video\]](#) [\[blog\]](#)

## Other

- Automatic query cancellation for Power BI Desktop [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/O8GIHDz8xUQ>

## April 2019 Update (2.68.5432.361)

Our April updates were packed full of updates that put spring in your step on rainy days.

### Power BI Desktop

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** this month:

## Reporting

- Filter pane improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Conditional formatting for visual titles [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Conditional formatting for web URL actions for buttons, shapes and images [\[video\]](#) [\[blog\]](#)

## Analytics

- Drill through across reports [\[video\]](#) [\[blog\]](#)
- Key Influencers visual now supports continuous analysis for numeric targets [\[video\]](#) [\[blog\]](#)
- Python support not generally available [\[video\]](#) [\[blog\]](#)
- Partial synonym matching for terms in Q&A [\[video\]](#) [\[blog\]](#)

## Modeling

- New DAX function - ALLCROSSFILTERED [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- One new custom visual [\[blog\]](#)

## Data connectivity

- Power BI dataflows connector now generally available [\[video\]](#) [\[blog\]](#)
- Oracle Essbase connector now supports DirectQuery, and is generally available [\[video\]](#) [\[blog\]](#)
- PDF connector now generally available [\[video\]](#) [\[blog\]](#)

- Web By Example connector - automatic table inference [\[video\]](#) [\[blog\]](#)
- Intersystems IRIS connector [\[video\]](#) [\[blog\]](#)
- Indexima connector [\[video\]](#) [\[blog\]](#)
- Luminis InformationGrid connector [\[video\]](#) [\[blog\]](#)
- Solver BI360 connector [\[video\]](#) [\[blog\]](#)
- Paxata connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- Data Profiling enhancements and general availability [\[video\]](#) [\[blog\]](#)
- Fuzzy merge performance enhancements and general availability [\[video\]](#) [\[blog\]](#)
- M Intellisense supported in formula bar and custom column dialog, and is generally available [\[video\]](#) [\[blog\]](#)

## Other

- Power BI Report Builder [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/vih35kSrEHU>

## March 2019 Update (2.67.5404.581)

Our March updates were packed full of compelling and useful updates, and we hope these improvements make you feel as lucky as finding a four-leaf clover.

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** in March:

## Reporting

- Single select slicer [\[video\]](#) [\[blog\]](#)
- Heat map support for Bing maps [\[video\]](#) [\[blog\]](#)
- Cross-highlight by axis labels [\[video\]](#) [\[blog\]](#)
- Default tooltip formatting [\[video\]](#) [\[blog\]](#)
- Static web URL support for buttons, shapes and images [\[video\]](#) [\[blog\]](#)
- Filter pane improvements [\[video\]](#) [\[blog\]](#)
- Page alignment options [\[video\]](#) [\[blog\]](#)
- Selection pane improvements [\[video\]](#) [\[blog\]](#)
- Formatting updates for maps [\[video\]](#) [\[blog\]](#)
- Accessible visual interaction [\[video\]](#) [\[blog\]](#)

## Analytics

- Q&A recommendations for improving results [\[video\]](#) [\[blog\]](#)
- Show dates as a hierarchy now generally available [\[video\]](#) [\[blog\]](#)

## Modeling

- New modeling view now generally available [\[video\]](#) [\[blog\]](#)
- New DAX functions [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- New certified Power BI visuals setting in the admin portal [\[video\]](#) [\[blog\]](#)
- Two new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- PDF connector now supports tables spanning multiple pages (preview) [\[video\]](#) [\[blog\]](#)
- Intelligent Plant's Industrial App Store connector [\[video\]](#) [\[blog\]](#)
- Microsoft Cost Management connector [\[video\]](#) [\[blog\]](#)

### ⓘ Note

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Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/rBPGH6eYIT0>

## February 2019 Update (2.66.5376.1681)

Our February updates made customers swoon and love all our new data connectors, features, and analytics enhancements. Just like a box of chocolates, you never know what you get... but with this February update, all changes were sweet and downright delicious.

### Power BI Desktop

You can [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to **Power BI Desktop** this month:

## Reporting

- Updates to the new filter pane (preview) [\[video\]](#) [\[blog\]](#)
- Cross-highlight on a single point in line charts [\[video\]](#) [\[blog\]](#)
- Word wrap on titles [\[video\]](#) [\[blog\]](#)
- Update default visual interaction to cross-filter [\[video\]](#) [\[blog\]](#)
- Rounded corners for visual borders [\[video\]](#) [\[blog\]](#)

## Analytics

- Key influencers visual (preview) [\[video\]](#) [\[blog\]](#)
- Insights questions in Q&A [\[video\]](#) [\[blog\]](#)
- Auto-generated suggested questions for Q&A explorer [\[video\]](#) [\[blog\]](#)
- Improved Python & R script editor [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Ten new Power BI visuals, new Power BI visuals feature [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Microsoft Graph Security [\[video\]](#) [\[blog\]](#)
- Guidanz' BI Connector for OBIEE [\[video\]](#) [\[blog\]](#)
- MarkLogic [\[video\]](#) [\[blog\]](#)
- Kronos Workforce Dimensions [\[video\]](#) [\[blog\]](#)
- SurveyMonkey [\[video\]](#) [\[blog\]](#)
- Qubole Presto [\[video\]](#) [\[blog\]](#)
- Quick Base [\[video\]](#) [\[blog\]](#)
- Sagra Emigo [\[video\]](#) [\[blog\]](#)

## Other

- Improved Live connect and DirectQuery error messages [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/dMD25wfEILg>

## January 2019 Update

Power BI Desktop

There was no Power BI Desktop release in January 2019 - we were all busy having a happy holiday, spending time with friends and family.

## December 2018 Update (2.65.5313.621)

Our December updates made sugar plums dance in our customers' heads, or at least created compelling data-driven visuals of said sugar plums.

You can now [download the latest version of Power BI Desktop](#). If you're running Windows 10, you can also get **Power BI Desktop** from the Windows Store. The monthly versions are the same even though the version numbering might differ between the two, regardless of which way you install **Power BI Desktop**. See [this article](#) for more information.

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You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to **Power BI Desktop** this month:

## Reporting

- Smart guides for aligning objects on a page [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- ArcGIS Maps for Power BI updates [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Fields list accessibility support [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Set tab order for objects on a page [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Tooltips for button visuals [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Updated icons for *Visual interactions* [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics

- Live connect support for Q&A (preview) [\[video\]](#) [\[blog\]](#)

## Modeling

- DAX formula bar updates [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Data view accessibility support [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Power BI visuals

- One new custom visual [\[video\]](#) [\[blog\]](#)

## Data connectivity

- AtScale connector (Beta) [\[video\]](#) [\[blog\]](#)
- Oracle Essbase connector (Beta) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Data preparation

- Fuzzy merge - support for Top N best matches [\[video\]](#) [\[blog\]](#)

## Other

- High contrast support for all panes and report footer [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Updated keyboard shortcut dialog [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

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The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/AHNIkjRFdYI>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## November 2018 Update (2.64.5285.582)

Our November updates were a bountiful harvest of new features and functionality. So you could sit down with your family of data and analytics enthusiasts, pass the potatoes, and dig in to our feast of updates.

The following updates are new to **Power BI Desktop** in November:

### Reporting

- Expand and collapse matrix row headers [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Copy and paste between Desktop files [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Updated filtering experience (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Report accessibility improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### Analytics

- Color saturation on visuals upgraded to use conditional formatting [\[video\]](#) [\[blog\]](#)
- Follow up questions in the Q&A explorer [\[video\]](#) [\[blog\]](#)

### Modeling

- New modeling view (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Composite models now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Modeling accessibility improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New DAX functions [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Five new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Azure Developer Operations Server connector [\[video\]](#) [\[blog\]](#)
- PDF Connector support for Start Page and End Page parameters [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Improved Azure Consumption Insights connector [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

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The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/1xsXXoyTxfk?controls=0>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## October 2018 Update (2.63.3272.40262)

Our October updates were spooky-good, frighteningly helpful, and sweeter than an orange bucket full of candy.

The following updates were new to **Power BI Desktop** in October:

## Reporting

- Search in filter cards [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Accessibility improvements for authoring experiences [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Performance improvements for ArcGIS Map [\[video\]](#) [\[blog\]](#)

## Modeling

- DAX editor improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics

- Composite models and aggregation support in the Power BI service (preview) [\[video\]](#) [\[article - aggregations\]](#) [\[article - composite models\]](#) [\[blog\]](#)
- Explain the increase for non-additive measures [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Five new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Web by Example connector now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP BW connector implementation v2 now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP BW Message Server Connector now generally available [\[video\]](#) [\[blog\]](#)
- Vertica connector now generally available [\[video\]](#) [\[blog\]](#)
- Dynamics NAV and Dynamics 365 business Central connectors now generally available [\[video\]](#) [\[blog\]](#)
- New Dynamics 365 business Central On-premises connector [\[video\]](#) [\[blog\]](#)

## Data preparation

- Data Profiling in Power Query Editor (preview) [\[video\]](#) [\[blog\]](#)
- Fuzzy Matching options for Merge Queries (preview) [\[video\]](#) [\[blog\]](#)

## Other areas

- Control export data options for reports [\[video\]](#) [\[blog\]](#)
- Transport layer security settings [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

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Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video channel describes and shows each of these updates. You can also see the videos from the blog post.

<https://www.youtube-nocookie.com/embed/cT3L2VzgBRU>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## September 2018 Update (2.62.5222.582)

Our September updates were like settling in to an exciting new classroom. Hopefully you found these updates as useful as a handful of just-sharpened No. 2 pencils.

The following updates were new to **Power BI Desktop** this month:

### Reporting

- Dot plot layout support in scatter charts [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Copy value and selection from table and matrix visuals [\[video\]](#) [\[blog\]](#)
- Built-in report theme options [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Report page tooltips generally available, new Card support [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Accessibility improvements for analytics and formatting pane support [\[video\]](#) [\[blog\]](#)

### Analytics

- Aggregations (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### Power BI visuals

- Five new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- PDF file connector (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP BW connector - support for measure properties [\[video\]](#) [\[blog\]](#)
- Dataflows connector (beta) [\[article\]](#) [\[blog\]](#)

## Data preparation

- M Intellisense [\[video\]](#) [\[blog\]](#)
- Add column from examples - support for text padding [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/Rzw2Wyl09kY>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## August 2018 Update (2.61.5192.321)

Our August updates were august in their own right, and followed quickly on the heels of July's big releases. Hopefully you found these updates like a sunny day on the beach; dip your toes in, we think you'll find these updates feel just right.

The following updates were new to **Power BI Desktop** in August:

## Modeling

- Data categories for measures [\[video\]](#) [\[article\]](#) [\[blog\]](#)

- Statistical DAX functions [\[video\]](#) [\[blog\]](#)

## Reporting

- Export to PDF, and print your reports [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Create bookmark groups [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Theming is generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Slicer restatement [\[video\]](#) [\[blog\]](#)

## Analytics

- Conditional formatting by values [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Python integration [\[video\]](#) [\[blog\]](#)
- Q&A improvements [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Five new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Spark connector generally available [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/dgv5HhHxe8>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

# July 2018 Update (2.60.5169.3201)

July's big updates were worthy of a fireworks show in their own right, with long-requested data and reporting features that launch your visuals sky-high, and burst with arcing displays of colorful insights.

The following updates were new to **Power BI Desktop** in July:

## Modeling

- Composite models (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Many-to-many relationships (Preview) (associated with composite models) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Storage mode (Preview) (associated with composite models) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Reporting

- New visual header with more flexibility and formatting [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Wallpaper formatting [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Theming update - more visual and page control (Preview) [\[video\]](#) [\[blog\]](#)
- Tooltips for table and matrix [\[video\]](#) [\[blog\]](#)
- Turn tooltips off for visuals [\[video\]](#) [\[blog\]](#)
- Slicer accessibility [\[video\]](#) [\[blog\]](#)
- Formatting pane improvements [\[video\]](#) [\[blog\]](#)
- Stepped line support for line and combo charts [\[video\]](#) [\[blog\]](#)
- Turn off combo chart data labels for individual series [\[video\]](#) [\[blog\]](#)
- Sorting experience improvement [\[video\]](#) [\[blog\]](#)

## Analytics

- Distribution factor insights [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Power BI certified category [\[video\]](#) [\[blog\]](#)
- Disabling specific organizational visuals [\[video\]](#) [\[blog\]](#)
- Four new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- IBM DB2 DirectQuery connector (Preview) [\[video\]](#) [\[blog\]](#)
- Improvements to Web By Example connector [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP HANA - default values for variables in Variable Input experience [\[video\]](#) [\[article\]](#) [\[blog\]](#)

#### ⓘ Note

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Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/Mtig3rmlUe0>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## June 2018 Update (2.59.5135.101)

The sun was shining on June's updates, with features and improvements that warmed up your reports and let you bask in the insights they provided.

The following updates were new to **Power BI Desktop** in June:

### Reporting

- High contrast support for reports [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Donut radius control [\[video\]](#) [\[blog\]](#)
- Pie and donut detail labels position control [\[video\]](#) [\[blog\]](#)
- Format data labels separately for each measure in a combo chart [\[video\]](#) [\[blog\]](#)
- Longer phone reports [\[video\]](#) [\[blog\]](#)

### Power BI visuals

- Two new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Modeling

- Filtering and sorting in data view [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Improved locale filtering [\[video\]](#) [\[blog\]](#)

## Data connectivity

- SAP BusinessWarehouse connector improvements (new driver and improved performance, plus improved support for hierarchy variables) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Spark connector now supports Windows Authentication [\[video\]](#) [\[blog\]](#)
- OData V4 connector enhancements [\[video\]](#) [\[blog\]](#)
- ODBC connector improvements (folding support for Top Rows, ability to filter navigation by DSN catalog) [\[video\]](#) [\[blog\]](#)

## Other

- National/Regional cloud selector [\[video\]](#) [\[blog\]](#)

### ⓘ Note

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Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/4VpGtWSrse>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## May 2018 Update (2.58.5103.281)

May's updates were a blooming collection of features and improvements that we hope spread sunshine on your reports, and made them blossom with beautiful insights.

The following updates were new to **Power BI Desktop** in May:

## Reporting

- Conditional formatting by a different field [\[video\]](#) [\[blog\]](#)
- Advanced slicer syncing [\[video\]](#) [\[blog\]](#)
- Log axis improvements [\[video\]](#) [\[blog\]](#)
- Data label options for funnel chart [\[video\]](#) [\[blog\]](#)
- Set line stroke width to zero [\[video\]](#) [\[blog\]](#)

## Analytics

- Measure drillthrough [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Power BI Premium

- Incremental refresh (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Power BI visuals

- Many new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- New **From Web** connector - by example data extraction (preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Common Data Service for Apps connector (beta) [\[video\]](#) [\[blog\]](#)
- Azure KustoDB connector (beta) [\[video\]](#) [\[blog\]](#)
- Google BigQuery and Azure HDInsight Spark connectors now generally available [\[video\]](#) [\[blog\]](#)
- Adobe Analytics connector update - support for multiple domain logins (preview) [\[video\]](#) [\[blog\]](#)
- Visual Studio Team Services connector update - analytics views support [\[video\]](#) [\[blog\]](#)
- OLE DB connector update - support for alternate Windows credentials [\[video\]](#) [\[blog\]](#)
- SAP BW DirectQuery connector update - improved technical name support [\[video\]](#) [\[blog\]](#)

## Data preparation

- Improvements to Add Column from Examples [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

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[https://www.youtube-nocookie.com/embed/-\\_GMCE1TLvQ](https://www.youtube-nocookie.com/embed/-_GMCE1TLvQ)

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## April 2018 Update (2.57.5068.501)

We're not fooling about how happy we were with April's updates to **Power BI Desktop**. We showered the updates across a handful of areas, and hope they help you grow your future reports with amazing, beautiful visuals.

The following updates were new to **Power BI Desktop** in April:

### Reporting

- Q&A Explorer [\[video\]](#) [\[blog\]](#)
- Buttons to trigger actions [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Combo chart line styles [\[video\]](#) [\[blog\]](#)
- Improved default sort for visuals [\[video\]](#) [\[blog\]](#)
- Numeric slicer now generally available [\[video\]](#) [\[blog\]](#)

### Analytics

- Update your linguistic schema [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New DAX function: COMBINEVALUES() [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Organizational visuals now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Many new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Adobe Analytics connector now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP HANA connector improvement: Port selection [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Dynamics 365 Business Central connector [\[video\]](#) [\[article\]](#) [\[blog\]](#)

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[https://www.youtube-nocookie.com/embed/W\\_Nb73Od\\_AI](https://www.youtube-nocookie.com/embed/W_Nb73Od_AI)

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## March 2018 Update ()

We were feeling lucky as a four-leaf clover about March's updates to **Power BI Desktop**. The following updates were new to **Power BI Desktop** in March:

## Reporting

- Report page tooltips [\[video\]](#) [\[blog\]](#)
- Bookmarking is now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Display units and precision control for Table and Matrix columns [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Turn off the visual header in Reading mode for a report [\[video\]](#) [\[blog\]](#)

- Improved default visual placement [\[video\]](#) [\[blog\]](#)

## Power BI visuals

- Many new Power BI visuals [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Data connectivity

- Visual Studio Team Services connector improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- SAP HANA connector enhancements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
  - DirectQuery multidimensional support is now generally available
  - SSL certificate validation support
- SAP BW DirectQuery now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Azure Analysis Services connector now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Other

- Improved error reporting [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- View previous errors you've encountered [\[video\]](#) [\[blog\]](#)

### ⓘ Note

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The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/kul6MMzDh34>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## February 2018 Update (2.55.5010.521)

Our hearts were full of love for the updates to **Power BI Desktop** in February, and we hope you found them just as sweet as a box of chocolates.

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- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video for this month from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** in February 2018:

## Reporting

- Multi-select data points across multiple pages [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Sync slicers across multiple pages of a report [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Numeric range slicer improvement - whole number snapping (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Faster geocoding for Bing maps (web Preview) - up to 6x faster [\[video\]](#) [\[blog\]](#)
- Overflow data labels for bar and column charts visuals [\[video\]](#) [\[blog\]](#)
- Search the Formatting and Analytics panes [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Power BI visuals

- Organization Power BI visuals (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics

- Set a custom date table [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Quick measures are now generally available [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Data connectivity

- Improvements to DirectQuery over SAP HANA (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Other

- DirectQuery performance improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Open and save performance improvements [\[video\]](#) [\[blog\]](#)

- *Show items with no data* improvements [\[video\]](#) [\[blog\]](#)
- Persistent filters control for upcoming **Power BI service** feature [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

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The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/KeVB5RwMzJo>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## January 2018 Update (2.54.4970.761)

We rang in the new year with a collection of updates to **Power BI Desktop**, and our new year's resolution is to keep them coming.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video for this month from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** in January:

### Reporting

- Show and hide pages [\[video\]](#) [\[blog\]](#)
- Control data label background color for Cartesian and maps visuals [\[video\]](#) [\[blog\]](#)

- Increase the area used for axis labels in charts [\[video\]](#) [\[blog\]](#)
- Bar / column padding control [\[video\]](#) [\[blog\]](#)
- Show dates as a hierarchy (preview) [\[video\]](#) [\[blog\]](#)
- Add an anchor date for a relative date slicer [\[video\]](#) [\[blog\]](#)
- Top N selection in Q&A [\[blog\]](#)
- Many new Power BI visuals [\[video\]](#) [\[blog\]](#)

## Analytics

- Correlation coefficient quick measure [\[blog\]](#)

## Data connectivity

- Support for Microsoft Entra authentication for Azure SQL Database and Data Warehouse connectors [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/W8Pp5wuCXJw>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## December 2017 Update (2.53.4954.481)

December brought a Ho-Ho-Whole lot of updates to **Power BI Desktop**, chock full of features gifts for all business intelligence minded kids (and adults) to enjoy.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** in December:

## Reporting

- Q&A for report creation [\[video\]](#) [\[blog\]](#)
- Cross-highlighting for bookmarks [\[video\]](#) [\[blog\]](#)
- More bookmark flexibility [\[video\]](#) [\[blog\]](#)
- Field properties pane and field descriptions [\[video\]](#) [\[blog\]](#)
- Scatter visual from x- and y-axis groupings [\[video\]](#) [\[blog\]](#)
- High density sampling for maps based on latitude and longitude [\[video\]](#) [\[blog\]](#)
- Responsive slicers [\[video\]](#) [\[blog\]](#)
- Recently released Power BI visuals [\[video\]](#) [\[blog\]](#)

## Analytics

- Drill filters other visuals [\[video\]](#) [\[blog\]](#)

## Data connectivity

- Adobe Analytics connector [\[video\]](#) [\[blog\]](#)
- HDInsight Interactive Query connector [\[video\]](#) [\[blog\]](#)
- Data.World connector [\[video\]](#) [\[blog\]](#)
- SAP BW connector improvements [\[video\]](#) [\[blog\]](#)
- IBM Netezza connector now generally available [\[video\]](#) [\[blog\]](#)

### ⓘ Note

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The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/ZPU8B-1Bxjl>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## November 2017 Update (2.52.4921.202)

November brought a whole harvest worth of updates to **Power BI Desktop**.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates were new to **Power BI Desktop** in November:

### Reporting

- Rule-based conditional formatting for Table and Matrix visuals [\[video\]](#) [\[blog\]](#)
- Cell alignment for Table and Matrix visuals [\[video\]](#) [\[blog\]](#)
- Control visual ordering through the selection pane [\[video\]](#) [\[blog\]](#)
- Lock objects on your report [\[video\]](#) [\[blog\]](#)
- Esri Plus Subscription is available for ArcGIS Maps for Power BI [\[video\]](#) [\[blog\]](#)
- Report options for slow data sources [\[video\]](#) [\[blog\]](#)
- Filtering performance improvements [\[video\]](#) [\[blog\]](#)
- Recently released Power BI visuals [\[video\]](#) [\[blog\]](#)

### Analytics

- Cell-level formatting for multidimensional AS models for multi-row card [\[video\]](#) [\[blog\]](#)

### Data connectivity

- Impala connector - support for Windows Authentication [\[video\]](#) [\[blog\]](#)

## Other

- Query editing - Add Column from Example improvements [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/sI3yRjdnJ7w>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## October 2017 Update (2.51.4885.543)

October brought a frighteningly compelling group of useful updates to **Power BI Desktop**.

The links beside each update mean the following:

- **[video]** excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an **[article]** that provides more detail.
- Most features are explained in the monthly update **[blog]** post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to **Power BI Desktop** this month:

## Reporting:

- Bookmarking (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Selection pane and visual display controls [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Bookmark links for shapes and images [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Spotlight [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Scatter and Bubble markers [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Increase the number of data points displayed in Scatter visuals [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Analytics:

- Quick measures for SSAS live connections [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Sales from new customers quick measure [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Cell-level formatting for multi-dimensional Analysis Services (AS) models [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data Connectivity:

- Vertica connector (beta) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- SAP BW connector - support for additional member properties [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Other:

- Get **Power BI Desktop** from the Windows Store [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Improved access to help content [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/jksjtR8GnBE>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

# September 2017 Update (2.50.4859.502)

The following updates are new to **Power BI Desktop** in September:

## Report View:

- Drill through to another report page [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Ribbon chart [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Insights about Explain the increase / Explain the decrease [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Theming preview update - chart style controls [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Accessibility improvements [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Accessible See data [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Keyboard shortcut helper dialog [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- High density scatter chart sampling [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Gridline style control [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- New Power BI visuals [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Calendar by Tallan [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Enlighten Aquarium [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Visio visual (preview) [\[video\]](#) [\[blog\]](#) [\[article\]](#)
  - Impact bubble chart [\[video\]](#) [\[blog\]](#) [\[article\]](#)

## Data Connectivity:

- Azure Consumption Insights connector [\[video\]](#) [\[blog\]](#) [\[article\]](#)
- Improvements to the Dynamics 365 for Financials connector [\[video\]](#) [\[blog\]](#) [\[article\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/moTQJInCIJw>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## August 2017 Update (2.49.4831.222)

The following updates were new to Power BI Desktop in August:

### Report View:

- Show values on rows for matrix [\[video\]](#) [\[blog\]](#)
- Color scales on font colors for table and matrix [\[video\]](#) [\[blog\]](#)
- Custom subtotal settings per level of matrix [\[video\]](#) [\[blog\]](#)
- Line styles and legend options [\[video\]](#) [\[blog\]](#)
- Scatter chart performance improvements [\[video\]](#) [\[blog\]](#)
- New Power BI visuals [\[video\]](#) [\[blog\]](#)
  - Dot Plot by MAQ Software [\[video\]](#) [\[blog\]](#)
  - Power KPI [\[video\]](#) [\[blog\]](#)
  - Funnel plot [\[video\]](#) [\[blog\]](#)
  - Beyondsoft Calendar [\[video\]](#) [\[blog\]](#)

### Analytics & Modeling:

- What if parameters [\[video\]](#) [\[blog\]](#)
- New scatter chart analytics features [\[video\]](#) [\[blog\]](#)
  - Symmetry shading [\[video\]](#) [\[blog\]](#)
  - Ratio lines [\[video\]](#) [\[blog\]](#)
- New quick measure: weighted average [\[video\]](#) [\[blog\]](#)

### Data Connectivity:

- Live connect to the Power BI service is generally available [\[video\]](#) [\[blog\]](#)
- Google BigQuery connector (beta) [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post

references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/ND8U0yXroaQ>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## July 2017 Update (2.48.4792.321)

The following updates were new to **Power BI Desktop** in July:

### Report View:

- New table & matrix visuals are now generally available [\[video\]](#) [\[blog\]](#)
- Renaming fields in visuals [\[video\]](#) [\[blog\]](#)
- Power BI visuals store integration [\[video\]](#) [\[blog\]](#)
- Relative date filters [\[video\]](#) [\[blog\]](#)
- Responsive layout for visuals (preview) [\[video\]](#) [\[blog\]](#)
- New waterfall chart option - breakdown [\[video\]](#) [\[blog\]](#)
- Custom visual updates [\[video\]](#) [\[blog\]](#)
  - Drill-down Choropleth [\[video\]](#) [\[blog\]](#)
  - Drill-down Cartogram [\[video\]](#) [\[blog\]](#)
  - Drill-down Player [\[video\]](#) [\[blog\]](#)
  - Certified Power BI visuals [\[blog\]](#)

### Analytics & Modeling:

- Quick measures from the community [\[video\]](#) [\[blog\]](#)
  - Star rating [\[video\]](#) [\[blog\]](#)
  - Concatenated list of values [\[video\]](#) [\[blog\]](#)
- Bidirectional cross filtering for DirectQuery is now generally available [\[video\]](#) [\[blog\]](#)

### Data Connectivity:

- Snowflake connector general availability [\[video\]](#) [\[blog\]](#)

## Query Editing:

- *Add Column from Examples* enhancements [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post references in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/4X96ow7FnSY>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## June 2017 Update (2.47.4766.542)

The following updates were new to **Power BI Desktop** in June:

### Report View:

- Data bars for new table and matrix visuals (Preview) [\[video\]](#) [\[blog\]](#)
- Markers on line, area, and combo visuals (Preview) [\[video\]](#) [\[blog\]](#)
- Visual font family setting [\[video\]](#) [\[blog\]](#)
- Horizontal image slicer [\[video\]](#) [\[blog\]](#)
- Combo chart formatting updates [\[video\]](#) [\[blog\]](#)
- Bing maps improvements [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- High density line sampling [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Accessible reports [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### Data Connectivity:

- Custom Data Connectors support [\[video\]](#) [\[blog\]](#)

- **Power BI service** Live Connect to on-premises and push streaming semantic models [\[video\]](#) [\[blog\]](#)
- Impala connector is now generally available [\[video\]](#) [\[blog\]](#)
- Amazon Redshift connector is now generally available [\[video\]](#) [\[blog\]](#)
- SAP BW connector - DirectQuery support [\[video\]](#) [\[blog\]](#)
- IBM Netezza connector (beta) [\[video\]](#) [\[blog\]](#)

## Query Editing:

- *Add Column from Examples* enhancements [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/YINVE5dgcSI>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## May 2017 Update (2.46.4732.461)

The following updates were new to **Power BI Desktop** in May:

### Report View:

- Relative date slicer (Preview) [\[video\]](#) [\[blog\]](#)
- New table visual (Preview) [\[video\]](#) [\[blog\]](#)
- Combo chart data label enhancements [\[video\]](#) [\[blog\]](#)
- More URL support in table and matrix visuals [\[video\]](#) [\[blog\]](#)
- mailto links in textbox [\[video\]](#) [\[blog\]](#)

## Analytics:

- Report level measures for live connections to Analysis Services tabular models and Power BI service semantic models [\[video\]](#) [\[blog\]](#)
- Two new quick measures (Preview) [\[video\]](#) [\[blog\]](#)
- Bin by count [\[video\]](#) [\[blog\]](#)

## Data Connectivity:

- Combine files - ability to reference *First File* as example [\[video\]](#) [\[blog\]](#)
- New data connectors:
  - Dynamics 365 for Customer Insights [\[video\]](#) [\[blog\]](#)

## Query Editing:

- Two new transforms:
  - Extract text before/after/between delimiters [\[video\]](#) [\[blog\]](#)
  - Unpivot only selected columns [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/CKISVNHcHVA>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## April 2017 Update (2.45.4704.442)

The following updates were new to Power BI Desktop in April 2017:

## Report View:

- Rename axis titles [\[video\]](#) [\[blog\]](#)
- New matrix visual enhancements: column sorting, column resizing, and word wrap (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

## Analytics:

- Quick measures [\[video\]](#) [\[blog\]](#) [\[in-depth blog\]](#) [\[article\]](#)
- Show value as [\[video\]](#) [\[blog\]](#)
- Q&A in Spanish (Preview) [\[video\]](#) [\[blog\]](#)

## Data Connectivity:

- Connect to semantic models in the Power BI service (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- New or enhanced data connectors:
  - Redshift Connector: beta support, and Publish to Power BI service [\[video\]](#) [\[blog\]](#)
  - SAP HANA and BW: enhancements to parameter input experience [\[video\]](#) [\[blog\]](#)

## Query Editing:

- Add Column from Example [\[video\]](#) [\[article\]](#) [\[blog\]](#) [\[another blog\]](#)
- Split column (by delimiter/number of characters) into rows [\[video\]](#) [\[blog\]](#)
- Group by: basic mode [\[video\]](#) [\[blog\]](#)
- Go to column [\[video\]](#) [\[blog\]](#)

### ⓘ Note

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Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/AWMala18G2Y>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## March 2017 Update (2.44.4675.422)

The following updates were new to Power BI Desktop in March 2017:

### Report View:

- New matrix visual (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Numeric range slicer (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)
- Data labels on pie and donut visuals - percent of total [\[video\]](#) [\[blog\]](#)
- Cross-highlight using multiple series [\[video\]](#) [\[blog\]](#)
- Textbox - ability to choose font color [\[video\]](#) [\[blog\]](#)
- Report theming (Preview) [\[video\]](#) [\[article\]](#) [\[blog\]](#)

### Analytics:

- Clustering - now generally available [\[video\]](#) [\[blog\]](#)

### Data Connectivity:

- New or enhanced data connectors [\[video\]](#):
  - Azure Analysis Services database (Beta) [\[blog\]](#)
  - Azure Data Lake Store - now generally available [\[blog\]](#)
  - DB2 connector - option to specify package collection [\[video\]](#) [\[blog\]](#)
  - Combine binaries - specify a sample file to use [\[video\]](#) [\[blog\]](#)

### Query Editing improvements

- Split column by delimiter - automatic detection of delimiter character [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/CaRTON3lJqw>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## February 2017 Update (2.43.4647.541)

The following updates were new to Power BI Desktop in February:

### Report View:

- Word wrap on matrix row headers [\[video\]](#) [\[blog\]](#)
- X- and Y-axis font size control [\[video\]](#) [\[blog\]](#)
- Cartesian chart minimum category width [\[video\]](#) [\[blog\]](#)
- Line chart line thickness and join type controls [\[video\]](#) [\[blog\]](#)

### Analytics:

- Two new Quick Calcs: Percent of row total, and percent of column total [\[video\]](#) [\[blog\]](#)

### Data Connectivity:

- New or enhanced data connectors [\[video\]](#) [\[blog\]](#):
  - ODBC and OLE DB connectors - support for *Select related tables* [\[blog\]](#)
  - Enhanced Folder connector - support for combining binaries from the Preview dialog [\[video\]](#) [\[blog\]](#)
  - Unified Text and CSV connectors [\[video\]](#) [\[blog\]](#)
  - **New** - PowerApps Common Data Service connector [\[blog\]](#)

### Query Editing improvements

- Quickly change a column's data type and locale with the new *Using locale* option in the *Column headers type* menu [\[video\]](#) [\[blog\]](#)
- Easily insert steps into existing queries, using the new *Insert Step After* option [\[video\]](#) [\[blog\]](#)

## Other improvements

- Solutions Templates and Partner Showcase quick access [\[video\]](#) [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

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The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/mn75-LOPxMA>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## January 2017 Update (2.42.4611.482)

The following updates are new to Power BI Desktop in January:

### Report View:

- Table and matrix conditional formatting improvement - blank formatting [\[video\]](#) [\[blog\]](#)
- New aggregations for string and dateTime columns [\[video\]](#) [\[blog\]](#)
- Table header word wrap [\[video\]](#) [\[blog\]](#)
- General Availability (GA) of Phone reports [\[video\]](#) [\[blog\]](#)

### Data Connectors:

- New or enhanced data connectors [\[video\]](#):
  - Visual Studio Team Services connector (Beta) [\[video\]](#) [\[blog\]](#)
  - Enhanced SQL Server connector - support for SQL Failover option [\[video\]](#) [\[blog\]](#)

## Query Editing improvements

- New transform: extract values from a nested list [\[video\]](#) [\[blog\]](#)

#### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

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The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/C1-f0T8vZ7M>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## November 2016 Update (2.41.4581.301)

The following updates were new to Power BI Desktop in November:

### Report View:

- Hierarchical axis [\[video\]](#) [\[blog\]](#)
- Axis label and title color control [\[video\]](#) [\[blog\]](#)
- Matrix conditional formatting [\[video\]](#) [\[blog\]](#)
- Table and matrix column formatting [\[video\]](#) [\[blog\]](#)
- Drop-down slicer [\[video\]](#) [\[blog\]](#)
- Mobile reports scrolling [\[video\]](#) [\[blog\]](#)

### Analytics

- Clustering (preview) [\[video\]](#) [\[blog\]](#)
- Forecasting (now in the **Power BI service**) [\[blog\]](#)
- Groups (now on the ribbon) [\[video\]](#) [\[blog\]](#)

### Data Connectors:

- New data connectors [\[video\]](#) [↗](#):
  - Spark DirectQuery [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
  - OData connector improvements [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
  - Enhanced *combine binaries* experience [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
  - Azure Analysis Services [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)

## Query Editing improvements

- Improved *function authoring* experience [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
- Support for *percentage* data type [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
- Added **Maximize** and **Restore** buttons in **Navigator** and **Query Dependencies** [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#) [↗](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

[https://www.youtube-nocookie.com/embed/kERJ\\_WOLuLk](https://www.youtube-nocookie.com/embed/kERJ_WOLuLk) [↗](#)

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## October 2016 Update (2.40.4554.361)

The following updates were new to Power BI Desktop in October:

### Report View:

- Improved date axis range formatting [\[video\]](#) [↗](#)
- Date slicer [\[blog\]](#) [↗](#) [\[video\]](#) [↗](#)
- Report gridlines and snap to grid (Preview) [\[article\]](#) [\[blog\]](#) [↗](#) [\[video\]](#) [↗](#)

- Data label improvements [\[blog\]](#) [\[video\]](#)
- Map formatting options [\[blog\]](#) [\[video\]](#)
- Improved date axis range formatting [\[blog\]](#)

## Analytics

- Grouping [\[blog\]](#) [\[video\]](#)
- Binning [\[blog\]](#) [\[video\]](#)
- Top-N filter [\[blog\]](#) [\[video\]](#)
- Include/exclude data points [\[blog\]](#) [\[video\]](#)
- R-powered Power BI visuals [\[blog\]](#)

## Data Connectors:

- New data connectors [\[video\]](#) :
  - Microsoft Dynamics 365 for Financials (Beta) [\[blog\]](#)
  - OLE DB [\[blog\]](#)
  - Mixpanel [\[blog\]](#)

## Query Editing improvements

- Support for *table parameters* in the **Invoke Function** dialog [\[blog\]](#) [\[video\]](#)

## Other improvements

- Diagnostics information in the **About** dialog [\[blog\]](#) [\[video\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/UXEYSvgvMaQ>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## September 2016 Update (2.39.4526.362)

The following updates were new to Power BI Desktop in September:

### Report View:

- ArcGIS Maps for Power BI (Preview) [\[blog\]](#) [\[video\]](#)
- Mobile report layout (Preview) [\[blog\]](#) [\[video\]](#)
- Updated drill behavior [\[article\]](#) [\[blog\]](#) [\[video\]](#)

### Analytics

- Forecasting (Preview) [\[article\]](#) [\[blog\]](#) [\[video\]](#)
- Use your own R IDE [\[blog\]](#) [\[video\]](#)

### Data Connectors:

- New data connectors:
  - Snowflake connector DirectQuery support [\[blog\]](#)
  - ProjectPlace connector [\[article\]](#) [\[blog\]](#)
- Improvements to existing connectors:
  - Oracle connector - improved Navigator previews performance [\[blog\]](#)
  - OData connector - support for *Select Related Tables* option [\[blog\]](#)
  - SAP Business Warehouse and SAP HANA connectors - enhancements to parameter input interface [\[article\]](#) [\[blog\]](#)
  - Web connector - support for specifying HTTP request headers within the dialog [\[blog\]](#) [\[video\]](#)

### Query Editor improvements:

- Query Dependencies view [\[blog\]](#) [\[video\]](#)
- Show Errors experience [\[blog\]](#)
- Query Editor ribbon support for scalar values [\[blog\]](#)
- Add function invocation column [\[blog\]](#)
- Expand & Aggregate columns - support for *Load More* values [\[blog\]](#)

- New transform - convert Table Column to a list [\[blog\]](#)
- Key boarding - support for *smart typing* in drop-down menus [\[blog\]](#)

## Other improvements

- In-product links to the **Power BI Community** [\[blog\]](#) [\[video\]](#)

### ⓘ Note

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The following video describes and shows each of these updates. You can also see the video from the blog post.

[https://www.youtube-nocookie.com/embed/pcUr6E8g\\_KI](https://www.youtube-nocookie.com/embed/pcUr6E8g_KI)

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## August 2016 Update (2.38.4491.282)

August introduced a full harvest of new features for Power BI Desktop:

- [\[video\]](#) excerpts play in a new browser tab, when the feature is being discussed.
- Some features have an [\[article\]](#) that provides more detail.
- Most features are explained in the monthly update [\[blog\]](#) post.
- Lastly, some features are self-explanatory and don't need an article or video.

You can also watch the **Latest Updates** video from the beginning, right inside this article, by clicking on the **play** icon on the video image found below the list of updates.

The following updates are new to Power BI Desktop this month:

## Report View:

- Drill down (or back up) on line charts [\[blog\]](#) [\[video\]](#)
- Continuous axis for the Date axis [\[blog\]](#) [\[video\]](#)
- General availability of Inline Hierarchies [\[article\]](#) [\[blog\]](#) [\[video\]](#)
- Predefined matrix styles (similar to table formatting in Excel) [\[blog\]](#) [\[video\]](#)
- Reorder fields, in charts and tooltips [\[blog\]](#) [\[video\]](#)
- Color formatting for KPI visuals [\[blog\]](#) [\[video\]](#)

## Analytics (New!)

- The all-new Analytics pane [\[article\]](#) [\[blog\]](#) [\[video\]](#)
- Dynamic reference lines [\[blog\]](#) [\[video\]](#)

## Data Connectors:

- New data connectors:
  - Snowflake connector (Preview) [\[blog\]](#)
- Improvements to existing connectors:
  - Impala connector - DirectQuery support [\[article\]](#) [\[blog\]](#)
  - Web connector - Web page previews [\[blog\]](#) [\[video\]](#)
  - General availability for the SAP Business Warehouse connector [\[article\]](#) [\[blog\]](#)

## Query Editor improvements:

- Option to Merge/Append as New Query [\[blog\]](#) [\[video\]](#)

## Other improvements

- Auto-recover Desktop files [\[blog\]](#) [\[video\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## July 2016 Update (2.37.4464.321)

You can always [download the latest version of Power BI Desktop](#).

July brought another great collection of new features and highly anticipated data connectors to Power BI Desktop. The following enhancements were new to Power BI Desktop in July:

### Report View:

- Predefined table styles [\[blog\]](#) [\[video\]](#)
- Shape Maps update - use custom maps [\[article\]](#) [\[blog\]](#) [\[video\]](#)

### Data Connectors:

- New data connectors:
  - Amazon Redshift [\[article\]](#) [\[blog\]](#)
  - Impala [\[article\]](#) [\[blog\]](#)
- Improvements to existing connectors:
  - Web connector - support for specifying a connection timeout [\[blog\]](#)
  - CSV and Text - support for fixed-width delimited files [\[blog\]](#)
  - Improvements and changes to the SAP Business Warehouse connector [\[article\]](#) [\[blog\]](#)

### Query Editor improvements:

- Use R script in Query Editor [\[article\]](#) [\[blog\]](#)
- Query parameter enhancements:
  - List query output as *allowed values* for a parameter [\[blog\]](#)
- Overwrite existing user-defined functions [\[blog\]](#)

ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these features (this is the same blog post referenced in the list above).

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/g8ccfjffWmw>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## June 2016 Update (2.36.4434.362)

You can always [download the latest version of Power BI Desktop](#).

June provided a shining collection of interesting updates for Power BI Desktop.

### Report View:

- New visual - Shape Maps [\[video\]](#) [\[article\]](#)
- Searchable slicers [\[video\]](#) [\[blog\]](#)
- Configurable line chart labels [\[video\]](#) [\[blog\]](#)
- New sign-in entry points [\[video\]](#) [\[blog\]](#)

### Data Access:

- Row Level Security [\[blog\]](#) [\[article\]](#)

### Data Connectors:

- New data connector: [\[blog\]](#)
  - Azure Enterprise
- Enhanced SAP BW and HANA connectors: [\[blog\]](#)
  - Allow multi-select of values for Variables/Parameters
  - Support for Hierarchies in SAP BW
- Enhanced OData connector - imports Open Type columns [\[blog\]](#)
- Enhanced Access DB connector - button to **Select Related Tables** in Navigator dialog [\[blog\]](#)

## Data Connectors:

- Templates - option to **Load** or **Edit** [\[blog\]](#) [↗](#)
- Query parameter enhancements: [\[blog\]](#) [↗](#)
  - Option to always allow Parameter specification
  - Create new parameter directly in context
- Option to generate Step Names in English [\[blog\]](#) [↗](#)
- Descriptions for Query Steps [\[video\]](#) [↗](#) [\[blog\]](#) [↗](#)
- New Data Transformations: [\[blog\]](#) [↗](#)
  - Extract Week Day and Month Name from a DateTime column
  - Merging dates and Times into a DateTime column
  - Extract Time.Start/End of Hour/Minute/Second

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#) [↗](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/sZsL2l6oS4A> [↗](#)

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## May 2016 Update (2.35.4399.381)

You can always [download the latest version of Power BI Desktop](#) [↗](#).

May brought another large collection of compelling updates for Power BI Desktop:

## Report View:

- Customizable tooltips [\[video\]](#) [↗](#) [\[article\]](#)
- Conditional formatting in tables [\[video\]](#) [↗](#) [\[article\]](#)
- Publish to Pyramid server [\[blog\]](#) [↗](#)

- Scrolling loads more data in charts [\[video\]](#) [\[blog\]](#)
- Keyboard nudging for visuals [\[blog\]](#)

## Analytics

- Quick Calcs - % of grand total [\[blog\]](#)

## Data Connectivity:

- New data connectors: [\[blog\]](#)
  - Informix
  - comScore Digital Analytix
  - Troux
  - Planview Enterprise
- Improved DB2 connector [\[blog\]](#)
- Text/CSV connector exposes editable settings in preview dialog [\[blog\]](#)
- Improved relational database connectors with Display Schema information
- Data Source Settings enhancements [\[blog\]](#)
- Advanced **Filter Rows** dialog mode [\[blog\]](#)
- Inline Input controls for Function invocation within **Query Editor** [\[blog\]](#)
- Query Parameters: [\[blog\]](#)
  - Ability to convert queries to parameters (and vice versa)
  - Support for URL parameterization and multi-part URLs in **Web** connector
  - Support for parameterization in **Conditional Columns** dialog
- Ability to **Save As** a Power BI Template [\[blog\]](#)
- Support for reordering Query Steps using drag-and-drop [\[blog\]](#)
- Date picker support in **Conditional Columns** dialog input Date fields [\[blog\]](#)
- New context menu entry to create new queries from the **Queries** pane [\[blog\]](#)

### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/KnDs4amt9-c>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## April 2016 Update (2.34.4372.322)

You can always [download the latest version of Power BI Desktop](#) ↗.

In April, we showered our great Power BI customers with another collection of compelling updates for Power BI Desktop. The following enhancements are new to Power BI Desktop this month:

### Report View:

- Additional styles on a table, matrix, and multi-row card
- Trend lines on single visuals
- New drill action - **See Records**
- Map auto-zoom during drill/filter
- In-line hierarchy labels for expanded view (Preview - [see the article](#))

### Data Modeling:

- Modeling operations are no longer blocked while visuals are refreshing
- Time Intelligence with built-in date hierarchy fields (Preview)
- Data model synonyms

### Data Connectivity:

- Query Parameters
- Power BI Template files
- New *Online Services* category in Get Data dialog
- New Connectors:
  - SharePoint Folder
  - Webtrends
  - SparkPost
  - tyGraph
- Conditional Columns
- DirectQuery - Specify DirectQuery vs. Import mode in data source dialogs
- Column type indicator in Query Editor preview column headers

- Reorder Queries and Query Groups using Drag & Drop gestures
- Query Management menu in the ribbon

#### ⓘ Note

You can also [check out all the data sources available to Power BI Desktop](#); our list is always growing, so check back often.

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/7IFZTYJR3Gk>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## March 2016 Update (2.33.4337.281)

You can now [download the latest version of Power BI Desktop](#).

March brings all sorts of renewal and freshness, including another round of Power BI Desktop additions. The following enhancements are new to Power BI Desktop this month:

### Report View:

- Publish reports to a Group Space in the Power BI service
- Reports with KPI trends now respect *Do Not Summarize* model settings from SSAS MD
- Data Point warnings are now non-intrusive

### Data Modeling:

- You can now change the data type of a column when using DirectQuery mode
- Ability to assume Referential Integrity on relationships (for those imported, and created) in DirectQuery
- DirectQuery for Oracle and Teradata is now part of Power BI Desktop (no long a preview feature)

## Data Connectivity:

- A new SAP BW Connector (preview feature)
- Support for Command Timeout in the user interface (UI)
- There's a setting available to disable Privacy Level prompts at the machine level (including a registry key)
- Query Group Management enhancements:
  - Expand/Collapse All
  - Retain Query Group expansion state
- New Transformations:
  - Remove Blanks using the Column Filter menu
  - Convert Duration values to Years
  - Keep Duplicates
- Support for whitespace and line feeds in Query Editor preview
- Include hints for *sample input values* in the **Change Type with Locale** dialog
- Enhancements to the **Navigator** window:
  - Add schema information to navigation hierarchy for ODBC sources
  - Ability to disable preview from **Navigator**
  - Technical name support
- Load: Auto-step to disambiguate conflicting column names (case-insensitive comparison)
- You can now rename queries directly from the **Queries** pane

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/eAayYDF9QzY>

### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## February 2016 Update (2.32.4307.362)

You can now [download the latest version of Power BI Desktop](#).

We're leaping ahead with more updates this month! February brings 29 days to the month (it's a leap year), and with it, 29 improvements to this monthly update of Power BI Desktop. The following enhancements are new to Power BI Desktop this month:

## Report View:

- See Data Behind a Visual (including *Export Data to CSV*)
- Map improvements - plot map with latitude/longitude only
- KPI consumption release support (including navigation hierarchy support and KPI trend for SSAS MD)
- SSAS Exploration Mode: Support for **Display** folders in the **Fields** pane
- Ribbon layout improvements: Contextual ribbon tab for **Report Tools**
- New KPI visual
- Get reports opened to the same page that was visible when they were saved
- **Edit Query** option in table context menu in the Fields pane (**Report & Data** views)
- **Duplicate Page** from the ribbon

## Data Modeling:

- Ability to define hierarchies
- Performance Improvement: Table & Column rename optimizations

## Data Connectivity:

- **DirectQuery** support for Oracle and Teradata
- **DirectQuery** support for creating Calculated Columns
- Support for publishing Analysis Services Live reports
- JSON File connector
- SQL Sentry connector
- Support for jagged CSV files
- Exchange Connector - OAuth support
- SharePoint List Connector - URL validation
- Database Connectors - ability to disable Navigation Columns in Query previews (Performance optimization)
- Web Connector - fine-grained scoping of Credentials
- **Enter Data** dialog UX enhancements
- SAP HANA - Support for single sign-on with Windows Authentication (Power BI Desktop only)
- SAP HANA - Support for **Field** labels
- Alphabetical sort of columns in **Choose Columns** builder
- Improved performance of renaming/removing/reordering columns
- Virtualized Preview in **Query Editor**
- Visual indicator for unloaded queries in **Query Editor**
- 1-click Percentage transform

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/J5gZ65Wexh4>

#### ⓘ Note

You might also be interested in learning [what's new in the mobile apps for Power BI](#).

## January 2016 Update (2.31.4280.361)

You can now [download the latest version of Power BI Desktop](#).

Ring in the new year with another collection of improvements and enhancements to Power BI Desktop. The following enhancements are new to Power BI Desktop this month:

### Report View:

- Add borders to a visual
- Add an image background to a visual

### Data Connectivity:

- DirectQuery: you can now create measures when using DirectQuery mode
- You can now refresh data for individual tables from the Field List (in **Report** view and **Table** view), rather than (and in addition to) just being able to **refresh all** from the ribbon
- General Availability (GA) for SQL Server Analysis Services Multidimensional models Exploration mode (no longer a preview feature)
- Enhancements to hierarchy support
- General Availability (GA) for the SAP HANA connector (no longer a preview feature)
- Ability to append multiple tables within a single Append operation
- Option to disable data previews to download in the background (performance optimization)

### Other Improvements:

- Support for Internet Explorer 9 (IE9) browser

- Performance improvements for report rendering, cross-highlighting, and otherwise
- Improvements to R integration in Power BI Desktop

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/ek8dwi33-24>

## December 2015 Update (2.30.4246.181)

December is a month for giving, and the Power BI team is following suit with more updates, features, and more functionality in this month's Power BI Desktop update. The following enhancements are new to Power BI Desktop this month:

### Report Authoring:

- Formatting Pane and Ribbon:
  - Format data labels per category services
  - Change the number of decimal places shown in visuals
  - Change text size in visuals
  - Ability to lay out visuals accurately: alignment, distribute, size, position
  - Set styles across multiple visuals through **Format Painter**
  - Optimized **Home** ribbon layout
- Enhancements to Visualizations:
  - Visual cue for sort state in **Table** visual
  - New visual: **Stacked Area** chart
  - Smart tooltips for **Area** and **Line** charts on hover
  - Ability to create reference line/region for a **Cartesian** visual
  - Improved data labels for **Pie** and **Scatter** charts
- [R Visuals integration in Power BI Desktop \(Preview feature\)](#)
- Suggested table-to-table relationships when trying to create visuals involving two tables which are not related

### Data Modeling:

- Relationships View

- Zooming slider
- Fit Zoom to screen
- Reset layout
- Ability to zoom in CTRL+(mouse selection range)

## Data Connectivity:

- [SSAS Multidimensional support - hierarchies support](#)
- Stripe Connector
- Smartsheet Connector
- **Enter Data:** paste or enter data to create a table
- DirectQuery improvements: support for all data types of T-SQL and SAP HANA, resulting in performance improvements
- ODBC Connector: support for selecting User/System DSNs
- CSV Connector: ability to specify Column Delimiter in the Source dialog

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/iW5VH8ilyfE>

## November 2015 Update (2.29.4217.221)

You can now [download the latest version of Power BI Desktop](#).

Another month, another big collection of new features and improvements for Power BI Desktop. Improvements range from new data connectors to new modeling capabilities. Here are 26 new features and improvements:

## Report Authoring:

- Play Axis for Scatter Chart
- Horizontal Slicers
- Slicer Selection Behaviors (single vs. multi-select)
- Control Z-order
- Background Colors for Slides
- Interactions between Visuals - Subview (tile by)
- Duplicate Pages
- Support for KPIs and Images in Tables, Matrices and Cards

- Better Tooltips on Area Charts & Line Charts
- Ability to change Text size in Cards & Tables/Matrix
- Improved tooltips and labels in Field Well and Formatting panes
- Ability to see Categories with no data
- Improved Default Sort behaviors for visuals
- Ability to control Axis Scale display units
- Visuals Refresh Optimizations when applying basic modeling operations

## Data Modeling:

- Basic Automatic Date Features

## Data Connectivity:

- [SSAS Multidimensional support](#)
- [SAP Hana](#)
- [R Script](#)
- DirectQuery for SQL Server, Azure SQL Database and Azure Synapse Analytics (formerly SQL Data Warehouse)
- Azure Data Lake
- Marketo

## Data Transformations:

- Improved Function Invocation experience
- Option to set Credentials at Server vs. Database level
- Add Prefix/Suffix to a Text column

## Other Improvements:

- New Documentation Website, now also including localized content

Want more information about these updates? Take a look at the [blog post](#), where you can get more detailed information about each of these new features.

The following video describes and shows each of these updates. You can also see the video from the blog post.

<https://www.youtube-nocookie.com/embed/ErHvpkyQjSg>

## October 2015 Update (2.28.4190.122)

October brings another large collection of updates to Power BI Desktop:

## Report Authoring:

- Custom Visualizations
- Insert Visual from the Ribbon
- Improved Default Sorting
- Tooltips & Data Labels on Funnel Charts
- Slicer Improvements:
  - Ability to Sort items
  - Ability to change Font Size
- Additional Formatting Options for Gauges
- Data Point Label layout improvements
- KPI Consumption (Preview Feature)

## Data Modeling:

- Semi-Select support for DAX formulas in Data view

## Data Connectivity:

- Azure Document DB connector
- Mailchimp connector
- DirectQuery for SQL Server and Azure SQL Database (Preview Feature)

## Data Transformations:

- Filter by "not earliest/latest date"
- Filter by "is in previous N minutes/hours/seconds"
- Copy/Paste Queries between Power BI Desktop and Excel
- Support for Special Characters in Split Column
- Refresh Previews in Merge Queries dialog
- Monospaced font for Query Editor Preview

## Other Improvements:

- Refresh Single Table (vs. All) from Report & Data Views
- Option to enable Preview features
- In-Product Ratings experience

You can view a video of all these updates, too.

<https://www.youtube-nocookie.com/embed/Jboen1ZNkxM> ↗

For more information, [check out the blog announcement](#) ↗ that describes more details about each update.

## September 2015 Update (2.27.4163.351)

The following massive collection of 44 features has been added to this update:

### Report Authoring

- Report-level filters
- Drill up/down for column and scatter charts
- New Page Size and Page View options
- Support for inserting Shapes in the Report canvas
- Fields pane improvements
  - Search Box to make it easier to find fields by name
  - "Expand/Collapse All" to improve navigation when there are multiple tables in the Fields pane
  - Field well cardinality support, drag-replace for buckets with 1 item
  - Additional Data Labels formatting options
  - Chart Cartesian Axis Improvements:
    - X-Axis label direction (horizontal / diagonal)
    - Support for Logarithmic & Linear scales for values in Y-axis
    - Display Text for hyperlinks in text boxes
    - Improvements to existing visualizations: Table, Matrix, Slicer, Scatter Chart, Single Cards, Combo Charts and Gauges
    - Support for displaying Color Saturation values in tooltips
    - Ability to resize images and apply additional formatting options

### Data Modeling

- Calculated Tables.
- Relationships view:
  - Create relationships via drag/drop between two tables in the diagram.
  - Delete relationships in relationship view by selecting and hitting the Delete key.
  - Rename/delete tables and columns
- Data view:
  - Copy Table contents to clipboard.

- Field Summarization:
  - Support for additional operations in the Fields pane: median, standard deviation, and variance
  - Default summarization: Users can now customize the default summarization operation for any given field in their model

## Data Connectivity

- Support for on-premises Spark distributions
- Support for SharePoint lists from non-English sites
- Exchange connector - Enhanced support, now allowing connections to multiple mailboxes
- Excel Workbook Connector - Automatic Column Type detection when importing .XLS files
- "Select Related Tables" option when connecting to database sources
- Enhanced Active Directory connector credentials, allowing alternate Windows Credentials
- Improved Function Invocation experience when loading functions from a data source (such as a database)
- "Import Excel Workbook Contents" feature released last month now also supports external connections to Analysis Services tabular models
- New option to "Delete All" entries in the Data Source Settings dialog
- Option to "Enable Relationship Import during Refresh operations"

## Data Transformations and Query Editor Improvements

- Copy to clipboard (available for cells/columns/tables)
- Filter date columns by earliest/latest date (dynamic filter)
- Extract min/max date/time value from a column
- Replace Values - Provision for specifying special characters
- "Detect Column Types" option to trigger type detection on demand
- "Refresh All Previews" to refresh all Query Editor previews with a single click
- Performance Improvements:
  - Choose Columns dialog: Faster user experience for dealing with wide tables
  - Auto-filter & Expand/Aggregate popups: Faster for large number of values/fields

The following video covers these features in more detail.

<https://www.youtube-nocookie.com/embed/Jm44dLXdarQ>

For more information about this update, [check out the blog announcement](#) that describes more details about each update.

## August 2015 Update (2.26.4128.403)

The following features have been added to this update:

### Overall Improvements:

- Import Excel Power BI items (Data Model, Queries, Power View) into a new Power BI Desktop file
- HDInsight Spark connector
- Azure Synapse Analytics (formerly SQL Data Warehouse) connector
- Support for custom MDX/DAQ queries when importing data from SSAS
- Live Analysis Services Connections: ability to change the database from **Edit Queries** dialog

### Navigator dialog improvements:

- Resizable Navigator dialog
- Ability to multi-select items in Navigator (CTRL+click, SHIFT+click, etc.)

### Query Editor improvements:

- Query Group creation/deletion improvements (multi-select, etc.)
- Ability to Split Query (i.e., refactor common base steps into a new query)
- Query Icons to reflect type of query in Queries navigator pane

### Data Modeling improvements:

- Resizing of columns in Table View
- Moving Measures from one table to another

Take a look at the following video for more details about this update:

<https://www.youtube-nocookie.com/embed/2v7LUD7MJaw> 

## July 2015 Update (2.25.4095.554)

The following features have been added in this update:

- **New Data Connectors:** appFigures, Quickbooks Online, Zendesk, GitHub, Twilio, and SweetIQ.

- **New Transformations:** Extract First/Last/Range of characters from a Text Column; Option to specify Join Type in the Merge Queries dialog; Ability to customize Quote Style in Split Column by Delimiter dialog.
- **Report Authoring Improvements:** New visualizations (Area Chart, Waterfall, Donut & Matrix); New visual formatting and customization options (labels, titles, background, legend, colors, etc.); Insert Textbox and Picture in your report; Support for hyperlinks in reports and report tables; Undo/Redo actions.
- **Direct Report Exploration** over Analysis Services Tabular Models.
- **Data Modeling:** New Table View & Relationships views.
- Publish reports to PowerBI.com, directly from Power BI Desktop.
- Support for opening Recent Files in Start Page and "File -> Open" menu.
- Support for Exchange UPN Credentials in the Exchange connector.

Take a look at the following video for more details:

<https://www.youtube-nocookie.com/embed/JCaCcdMnsyM> ↗

## May 2015 Update (2.23.4036.161)

The following features have been added in this update:

### Modeling Features

- Calculated Columns
- Data Categorization
- Sort By Another Column
- Improved DAX Formula Editor: Function Help and Prototype

### Get Data & Query

- New **ODBC Tables** connector (Beta)
- Improved to the **Excel Workbook** connector: better column type inference and faster load for data previews
- New Text Column Filters - **Does Not Begin With** and **Does Not End With**
- Enhanced Privacy Levels dialog

Take a look at the following video for details:

<https://www.youtube-nocookie.com/embed/LS0zMfup1pQ>

## April 2015 Update (2.22.4009.122)

You can now [download the latest version of Power BI Desktop](#).

The following features have been added in this update:

### Modeling Features

- Initial support for DAX Measures
- New DAX functions
- Data Types & Formatting options in Report view
- Rename & Delete fields in Report view

### Get Data & Query

- OData V4 support
- Support for Custom ADFS Authentication Services
- Updated Facebook connector due to Facebook API changes
- Unified Options dialog
- Option to disable Native Database query prompts
- Support for **Fixed Decimal Number** type
- Alternate Windows Credentials
- Remove Blank Rows
- Median Operation available for **Group By** and **Aggregate Column**
- Convert **DateTimeZone** value to **Local Time**

### Performance Improvements

- Faster load of medium & large semantic models by about 20%
- Improved time to open an existing PBIX file by about 50%

You can watch the following video for details:

<https://www.youtube-nocookie.com/embed/FuL8agVKrcg> ↗

## March 2015 Update (2.21.3975.261)

The following features have been added in this update:

- **Google Analytics** connector
- Additional operators for **date filtering** in Query view
- **Automatic Model Relationship Detection**
- Enhanced **Add Relationship** dialog
- **Report Pages Re-ordering** (drag & drop)
- ~40-50% **Performance Improvement** filling database tables without filters/transforms
- Lots of bug fixes

You can watch the following video for more details:

<https://www.youtube-nocookie.com/embed/xJTcGro08TI> ↗

## February 2015 Update (2.20.3945.102)

The following features have been added or improved in this update:

- Performance improvements
- Dynamics CRM Online connector

### ⓘ Note

Currently, only URLs within the crm.microsoft.com domain are accepted by this dialog. This does not include non-production tenants. We'll fix this issue in our March update. The temporary workaround is to connect to this feed using "From OData".\*

- Navigator Dialog improvements
  - Better preview experience for multi-dimensional sources (Analysis Services and SAP BusinessObjects)
  - Show Selected Items option

- Improved Search capabilities in the Navigator tree
- New Transformations
  - Age and Subtract operations for Date/Time columns
  - Aggregate Columns: Option to disable new columns' prefix
- Field List improvements
  - Expand/Collapse tables
  - Hide/Unhide fields
  - Optimized layout (spacing, margins, and fonts)
- Report Pages Navigation - Key boarding support
- Lots of bug fixes

<https://www.youtube-nocookie.com/embed/-bZFeS1S1wU> 

### January 2015 Update (2.19.3923.101)

This month we've made a number of improvements and bug fixes under the covers. Please try out the new version and continue to send us feedback if you find any issues!

 **Note:** The author created this article with assistance from AI. [Learn more](#)

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Last updated on 11/18/2025

# Change log for Power BI Desktop

This change log is for Power BI Desktop and lists new items and bug fixes for each released QFE build.

See [What's new in Power BI](#) for more information about new features.

## November 2025 QFE 3

*Version 2.149.1429.0, Released: December 5, 2025*

Bug fixes/improvements:

- Addressed a regression where an empty schema was being returned when using more two or more models that contained only tables (with no measures or relationships). This caused errors such as "Something went wrong" or Copilot indicating no models or schema were available in multimodel authoring scenarios.

## November 2025 QFE 2

*Version 2.149.1252.0, Released: December 1, 2025*

Bug fixes/improvements:

- Live connect sessions are currently generating local resources and data indexing. Implemented a fix for Live connect sessions to use remote resources and interpret for QnA features.

## November 2025 QFE 1

*Version 2.149.1203.0, Released: November 25, 2025*

Bug fixes/improvements:

- Added enhanced error handling for browser runtime exceptions during page load, treating them as fatal errors.
- Bug fix addressing the issue of alternate visual names not being recognized.

## October 2025 QFE 2

*Version 2.148.1477.0 Released: November 10, 2025*

Bug fixes/improvements:

- Fixed the issue where calculated tables were previously omitted from the refresh process.

## October 2025 QFE 1

*Version 2.148.1226.0 Released: October 28, 2025*

Bug fixes/improvements:

- Feature update to treat calculated tables as refreshable.
- Resolved an issue where the user sees the "This query contains transformations that can't be used for DirectQuery" error when using the Snowflake connector in DirectQuery mode. Also resolved the "This step results in a query that is not supported in DirectQuery mode. Switch all tables to Import mode" error seen in the Snowflake connector.
- Fixed scenarios when the user opens PBIP files with the connection or file errors and the Power BI Desktop hangs in the noninitialized state.

## September 2025 QFE 2

*Version 2.147.1085.0, Released: September 19, 2025*

Bug fixes/improvements:

- Preview feature "Enable using bundled Oracle Managed ODP Provider for Import Mode" was enabled by default in the September build. However, we discovered that it fails in certain scenarios where customers use a TNS alias as the server name. To address this, we reverted the default setting of this preview feature to false.
- Correctly categorized Copilot orchestration throttling failures as user error.

## September 2025 QFE 1

*Version 2.147.931.0, Released: September 15, 2025*

Bug fixes/improvements:

- Resolved an issue where users saw an error while refreshing tables that use DirectQuery.

## August 2025 QFE 3

*Version 2.146.1254.0, Released: August 28, 2025*

Bug fixes/improvements:

- Resolved an issue where users are unable to save Power BI Desktop reports after converting from LiveConnect to a composite model, with the **Save** button failing to update the file.
- Fixed the missing "Queries" section in PowerQuery Editor for dark and light mode.

## August 2025 QFE 2

*Version 2.146.1133.0, Released: August 25, 2025*

Bug fixes/improvements:

- Fixed a save issue that triggered a "Column or Measure not found in model" error for some users.
- Fixed bug where restricted users were able to see the Azure Maps conversion dialog when logged in.
- Addressed an issue where UI buttons were incorrectly displayed by adding debug mode support for conditional visibility.

## August 2025 QFE 1

*Version 2.146.1026.0, Released: August 19, 2025*

Bug fixes/improvements:

- Fixed Databricks SQL Endpoint connection issue.
- Fixed DirectQuery failures for Gen1 Dataflows with Enhanced compute.
- Fixed PBIR versioning issues with the Translytical task flows preview.

## July 2025 QFE 3

*Version 2.145.1602.0, Released: July 31, 2025*

Bug fixes/improvements:

- Fixed the issue of Snowflake query with count-distinct logic returning incorrect result.
- Fixed the error "Object reference not set to an instance of an object" while creating relationships when connected to Snowflake.

## July 2025 QFE 2

*Version 2.145.1457.0, Released: July 28, 2025*

Bug fixes/improvements:

- Fixed reports not behaving properly (unable to navigate pages, wrong visuals being displayed) after ungrouping visuals.

## July 2025 QFE 1

*Version 2.145.1262.0, Released: July 23, 2025*

Bug fixes/improvements:

- Bug fix addressing a null reference error and enhancing exception handling.
- Fixed the issue of Dataflow refresh failing in Power BI Desktop.

## June 2025 QFE 3

*Version 2.144.1378.0, Released: July 3, 2025*

Bug fixes/improvements:

- Resolved an issue where the product would fail to refresh tables when opening the model and the local model.abf is stale.
- Fixed a bug in error handling by mapping the unrecognized error code to a user-friendly "region not supported" message for Copilot.

## June 2025 QFE 2

*Version 2.144.1155.0, Released: June 25, 2025*

Bug fixes/improvements:

- Bug fix addressing the missing DonutChart legend when values are empty but the category is provided.
- Bug fix addressing the query order logic in model synchronization. Refined the logic for handling query order synchronization.
- Fixed issue Index was outside the bounds of the array when using Implementation 2.0 for connectors.
- Bug fix addressing incorrect function usage in the visual top  $n$  feature.

## June 2025 QFE 1

Version 2.144.878.0, Released: June 16, 2025

Bug fixes/improvements:

- Fixed an issue with incremental refresh validation for tables referencing multiple data sources.
- Addressed UI regression in *high-contrast mode* for the **Manage relationships** dialog, resolving visual distortions in the *high-contrast mode* display of checkboxes and icons within the **Manage relationships** pane.
- Addressed a regression that resulted in conditional-formatting colors being improperly deleted.

## May 2025 QFE 2

Version 2.143.1378.0, Released: June 4, 2025

Bug fixes/improvements:

- Addressed regression that resulted in conditional formatting colors being improperly deleted.

## May 2025 QFE 1

Version 2.143.1204.0, Released: May 28, 2025

Bug fixes/improvements:

- Addressed regression in the filter pane **Apply** button not appearing.
- Added a missing **Learn more** link for a new SQL Database feature under **Preview features**.
- Added **Learn more** and **Share feedback** links for translytical task flows.
- Addressed the incorrect inclusion of the action button *loading* state for non-DataFunction visual link types.
- Updated to allow for better fuzzy matching between user inputs and trigger prompts in desktop by using LLM-based match.
- Addressed dark mode styling issues for relationship checkboxes.
- Updated swap loading messages in the data question service to improve clarity and accuracy.
- Addressed outdated theme state IDs by introducing a feature switch to ignore them in button slicer visuals.
- Implemented feature disablement by preventing entry points for unsupported visuals through refined supportability checks and filter handling logic.

# April 2025 QFE 1

*Version 2.142.1277.0, Released: May 5, 2025*

Bug fixes and improvements:

- Addressed the incorrect classification of user errors in the orchestrator for the Desktop RAC.
- Fixed the warning bar issue related to unsaved layout changes.
- Addressed a bug causing `NullReferenceException` due to two files being opened at the same time.
- Fixed access to Power Platform Dataflows and Dataverse in government clouds.

# March 2025 QFE 5

*Version 2.141.1754.0, Released: April 16, 2025*

Bug fixes/improvements:

- Addressed the issue where new Card visual conditional formatting wasn't working without small multiples.
- Addressed the issue where two separate **Working on this** dialogs were displayed, and the second **Working on this** dialog would hang.

# March 2025 QFE 4

*Version 2.141.1558.0, Released: April 11, 2025*

Bug fixes/improvements:

- Rolled back fix for the issue where two separate **Working on this** dialogs are displayed and the second **Working on this** dialog hangs.

# March 2025 QFE 3

*Version 2.141.1580.0, Released: April 10, 2025*

Bug fixes/improvements:

- Addressed the issue where two separate **Working on this** dialogs were displayed, and the second **Working on this** dialog would hang.
- Fixed Snowflake connector issues for March 2025 release.

- Addressed a bug causing *TaskCanceledException* in the Power BI Windows application.

## March 2025 QFE 2

*Version 2.141.1451.0, Released: April 4, 2025*

Bug fixes/improvements:

- Addressed the issue where **Edit in Desktop** doesn't work for Microsoft Store installations of Power BI Desktop.

## March 2025 QFE 1

*Version 2.141.1253.0, Released: March 30, 2025*

Bug fixes/improvements:

- Addressed the issue of a gray/empty *Load to report* dialog in the Power BI client for Windows.

## February 2025 QFE 5

*Version 2.140.1577.0, Released: March 14, 2025*

Bug fixes/improvements:

- Addressed issues with host promise rejections in various views and dialogs, ensuring proper error handling and feedback.

## February 2025 QFE 4

*Version 2.140.1476.0, Released: March 11, 2025*

Bug fixes/improvements:

- Addressed issues with the copy cell functionality in data grid, ensuring proper asynchronous handling and accurate cell value retrieval.

## February 2025 QFE 3

*Version 2.140.1454.0, Released: March 8, 2025*

Bug fixes/improvements:

- Resolved the issue of broken custom visual dialogs.
- Resolved an issue where users weren't able to save a PBIP file when TMDL view preview feature is enabled.
- Fixed the confirmation dialog handling for the download API in Power BI Desktop, addressing a regression issue.

## February 2025 QFE 2

*Version 2.140.1351.0, Released: March 4, 2025*

Bug fixes/improvements:

- Added better error classification to reduce unwanted error popups.
- Fixed an issue where existing report pages were disappearing when adding a local model to a report in Power BI Desktop.
- Fixed a UI regression issue where the *Manage Relationships* dialog in the report view had a different size compared to the Table or Model View.

## February 2025 QFE 1

*Version 2.140.1205.0, Released: February 26, 2025*

Bug fixes/improvements:

- Fixed AS thrown exception *PFE\_M\_ENGINE\_INTERNAL* by adding validation to check whether *CertifiedExtensions* folder exists at path `AppData...\PowerBIDesktop\CertifiedExtensions`.
- Fixed error while opening PBIX files when tables named *Measures* with leading or trailing spaces.

## January 2025 QFE 3

*Version 2.139.2054.0, Released: January 29, 2025*

Bug fixes/improvements:

- Fixed issue in v2 connector that creates duplicate records, and some missing records, causing rows in the dataset to be repeated instead of new rows being returned

# January 2025 QFE 2

*Version 2.139.1733.0, Released: January 24, 2025*

Bug fixes/improvements:

- Fixed issue of users receiving an error due to pending changes at the conclusion of a model change
- Fixed SQL Server connector to operate properly with Fabric SQL

# January 2025 QFE 1

*Version 2.139.1678.0, Released: January 14, 2025*

Bug fixes/improvements:

- Fixed issue when connecting to Fabric SQL database using SQL connector

# November 2024 QFE 3

*Version: 2.138.1452.0, Released: December 9, 2024*

Bug fixes/improvements:

- Fixed the frowns observed by customers when using the older version of WebView2 Runtime

# November 2024 QFE 2

*Version 2.138.1203.0, Released: November 27, 2024*

Bug fixes/improvements:

- Fixed a regression issue where users in certain regions were seeing an error because they can access and use the Copilot pane, even though it shouldn't have been available to them
- Fixed an issue where incorrect column names were being returned from *AdomdDataReader* results after changing column format or aggregation, causing broken data views and visual updates

# November 2024 QFE 1

Version 2.138.1004.0, Released: November 19, 2024

Bug fixes/improvements:

- Diagnostic telemetry to capture logs related to the broken data view and visuals issue, when a user changes the column format or aggregation
- Disabled *Inline Sparkline Measure* since it broke previously created reports that used calculation groups with sparklines
- Fixed an issue preventing users from connecting to SAP HANA due to a *Non-null assertion failure: queryName* error
- Removed telemetry service suspends for Power BI Desktop applications, and introduced configuration for page visibility service
- Fixed the endless retry of the V2 client-side copilot orchestrator and added a limit to the number of retries
- Fixed an issue where Q&A tooling was broken due to improper error handling

## October 2024 QFE 2

Version 2.137.1102.0, Released: October 28, 2024

Bug fixes/improvements:

- Fixed issue with disambiguation preference settings when using composite models
- Fixed a browser compatibility issue
- Upgrade from npgsql 4.0.16 to npgsql 4.0.17, which fixed the issue of PostgreSQL connections not working when using prefer or required secure connections

## October 2024 QFE 1

Version 2.137.952.0, Released: October 21, 2024

Bug fixes/improvements:

- Fixed issue with importing/opening a *Live Connected* report
- Downgraded Drill ODBC driver version from 1.5.14 to 1.5.5
- Fixed refresh issue with the Dremio connector
- Fixed the Navigator dialog, allowing Perspective selections when using Composite models

## September 2024 QFE 1

Version 2.136.1478.0, Released: October 7, 2024

Bug fixes/improvements:

- Fixed an issue associated with being unable to connect to the Spark Connector
- Provided a fix to handle the parsing of spaced parameter query names

## August 2024 QFE 2

*Version 2.135.7627.0, Released: September 20,2024*

Bug fixes/improvements:

- Fixed the error *InvalidOrMalformedDataShapeBinding* that prevented Cartesian charts from displaying when it had a reference line based on the aggregate of a measure. This error could occur when the same field with the same aggregate is used as a conditional formatting source for a different formatting option in the same visual.

## August 2024 QFE 1

*Version 2.132.1053.0, Released: August 21,2024*

Bug fixes/improvements:

- Fixed an issue with July build to August build upgrade

## July 2024 QFE 1

*Version 2.131.1126.0, Released July 21, 2024*

Bug fixes/improvements:

- Fixed the issue with bookmark groups serializing in exploration for version 2
- Updated Analysis Services engine version to 16.0.138.23-PBID
- Switched Power BI tests configurations to use the default VHD image
- Fixed named expressions running through the table inclusion/exclusion logic for synchronizer sub-select

## June 2024 QFE 1

*Version 2.130.930.0, Released: June 17, 2024*

Bug fixes/improvements:

- Bug fix for an issue where the "Refresh" popup showing the number of rows loaded was not appearing on refresh of the data in the table view
- Reverted cross-highlight optimization behavior for Custom Visuals
- Improved the token fetching process in the SubstrateService of the Power BI client
- Serialized bookmark groups properly

## May 2024 QFE 1

*Version 2.129.1229.0, Released: May 30, 2024*

Bug fixes/improvements:

- Subfolders preview feature is disabled by default
- Fixed issue with hiding **Select** and **Cancel** buttons when publishing with the **Subfolder** feature and the tenant pre-publish message is visible
- Added more telemetry for acquiring token to identify dynamic user impersonation culprits
- Fixed **CTRL + F6** navigation so the Diagram view can be focused, also updated the focus priorities of some components.

## April 2024 QFE 3

*Version: 2.128.1380.0, Released: May 02, 2024*

Bug fixes/improvements:

- Introduced a new feature to synchronize the *DataType* when the *SourceProviderType* changes in the Power BI Modeling Engine
- Added locks to prevent clearing the cache of the Data Grid data when it's being read at the same time
- Set Trust Server Certificate irrespective of encrypt connection settings
- Fixed issue occurring when select visuals' calculation groups were returning incorrect results due to incorrect optimization

## April 2024 QFE 2

*Version 2.128.1177.0: , Released: April 24, 2024*

Bug fixes/improvements:

- Version update for Mashup Provider NuGet packages (to include QFE fixes)

- Disabled contextual summarize columns for Power BI Desktop to make consistent with the Power BI service
- Updated error messages in the Azure Data Lake Storage (ADLS) connector

## April 2024 QFE 1

*Version: 2.128.952.0, Released: April 15, 2024*

Bug fixes/improvements:

- Fix for drag and drop picker tooltip, empty title fix
- Fix duplicated truncation problem on Gauge Chart
- Added error messaging when ignoring the workspace picker for Desktop Report Authoring Copilot

## March 2024 QFE 2

*Version: 2.127.1327.0, Released: April 01, 2024*

Bug fixes/improvements:

- Fix for customize theme dialog margins: Fixed issue where theme dialog's margins were too large and were occluding the *Cancel* and *Apply* buttons.
- Fix for DAX Query View copilot usage telemetry: Fix for spike in Customer Counts/Tenant Counts for Feature powerbi-copilot-usage.
- Fixed issue where an error is thrown in live connect when users clicked on relationships.

## March 2024 QFE 1

*Version: 2.127.1235.0, Released: March 28, 2024*

Bug fixes/improvements:

- Fix for DataGrid copy to clipboard: Fixed issue of "Copy Table" not working in datagrid view of Power BI Desktop
- Bug fixes for the DAX inline Copilot: Fixed issue where invalid DAX query banner shows up unexpectedly in some cases. Prevents **Cancel** button from being stuck when pressed too early. Prevents stale user input from showing when signing in again

## February 2024 QFE 1

*Version: 2.126.1261.0, Released: March 01, 2024*

Bug fixes/improvements:

- Fix for refresh failures for certain reports having a DirectQuery connection to AAS or a published semantic model
- Fix for null reference to telemetry object
- Make visual calculation look up invisible in Power BI Desktop

## **December 2023 QFE 3**

*Version: 2.124.2028.0, Released: January 29, 2024*

Bug fixes/improvements:

- Fix v5.50 upgrader for multi-static series and 100% stacked charts
- Remove Force Refresh on Token Refresh

## **December 2023 QFE 2**

*Version: 2.124.1805.0, Released: January 19, 2024*

Bug fixes/improvements:

- Sign-in Flighting Feature Update
- Updated Q&A Copilot telemetry

## **December 2023 QFE 1**

*Version: 2.124.1554.0, Released: January 09, 2024*

Bug fixes/improvements:

- Updated PQO announcement dialog image path.
- Updated the learn more link for PQO announcement dialog.
- Added flighted features to Power BI Desktop from telemetry event.
- Disable NewNonEmptyFilteringSemantics feature switch.
- Small-multiple single-series column-chart style-formatting.
- Fixed formatting pane isn't allowing formatting multiple visuals of the same type

## **November 2023 QFE 1**

*Version: 2.123.742.0, Released: November 21, 2023*

Bug fixes/improvements:

- Fixed mobile canvas watermark that was throwing exceptions in autocreate
- Frown fix - users no longer get a frown from the sync slicer view model update when a slicer is selected

## October 2023 QFE 1

*Version: 2.122.1066.0, Released: November 01, 2023*

Bug fixes/improvements:

- 32-bit sign-in fix. Customers can now sign in to 32-bit Power BI Desktop.
- CDM connector fix.
- Telemetry fix.
- Print PDF fix. Customers can now print and open .pdf files.
- Semantic model fix. It's now confirmed whether a report object exists before showing Power BI semantic model *Unable to connect* dialog.
- The freshness requirement for collecting AS logs and traces has been removed.

## September 2023 QFE 2

*Version: 2.121.903.0, Released: September 25, 2023*

Bug fixes/improvements:

- Formula bar fix. An error message now appears when a user types an expression in the formula bar that results in an error from AS and reverting their expression.
- Fix to data exporting. Customers exporting data from a visual are no longer restricted to 300 rows.

## September 2023 QFE 1

*Version: 2.121.762.0, Released: September 18, 2023*

Bug fixes/improvements:

- Fix to On Object. Now customers can select all sections on Pie/Donut chart.

## August 2023 QFE 1

*Version: 2.120.963.0, Released: August 29, 2023*

Bug fixes/improvements:

- Security update. Open SSL version updated to 3.0.9
- Telemetry fix.

## July 2023 QFE 2

*Version: 2.119.986.0, Released: July 26, 2023*

Bug fixes/improvements:

- Fix too large models. Now customers would be able to see relationships lines in Model View. Template files with multiple queries now load faster.

## July 2023 QFE 1

*Version: 2.119.870.0, Released: July 24, 2023*

Bug fixes/improvements:

- TheProductForX tests fix
- Template files with multiple queries now load faster.
- Visual fix. Measure-driven data label now supports adding date type field to custom label and allows to adjust the size of the visual.
- On-object fix. Disambig menu on treemap wouldn't be auto expanding.
- ExecutingUserObjectId is now properly populated.
- The calculation group ribbon button in the model view is now behind a feature switch.
- Component governance fix.
- On-object fix. Customers won't get an error when selecting two groups on selection pane and merge them.

## June 2023 QFE 2

*Version: 2.118.1063.0, Released: July 05, 2023*

Bug fixes/improvements:

- Sign in fix. Users are now able to sign in to Power BI Desktop using Azure Virtual Desktop
- Users are now able to sign out from their accounts.

# June 2023 QFE 1

*Version: 2.118.828.0, Released: June 22, 2023*

Bug fixes/improvements:

- Fix to visual. Customers now could add field parameter to their visuals.
- Fix to On-object. Updated table selector getter.
- All accent and special characters are now supported in Spanish.
- Fix to On-object. Build visual menu now supports setting values as *percent of column total* or *Percent of row total*.
- Google analytics V2 is now able to save data to Power BI.
- Telemetry fix.
- Fix to UnappliedQueries. All exported templates would now include lineage tags.
- Fix to AS on-premises connection type.
- Localization fix. Tooltip for OneLake data hub button on Home Tab is now available in multiple languages.
- Fix to the ribbon. Customers won't see the key tips in the ribbon when formula bar is edited.

# April 2023 QFE 3

*Version: 2.116.966.0, Released: April 26, 2023*

Bug fixes/improvements:

- Telemetry fix.
- Fix to data grid header. Updated design is now available to customers.
- Fix to context menu. In the data grid checkable options for sorting and hide in report view now available.
- On-object fix. Customers now able to use the Format pane to change Row Subtotals position from bottom to top on Matrix.

# April 2023 QFE 2

*Version: 2.116.884.0, Released: April 21, 2023*

Bug fixes/improvements:

- Fixed issues with x86 installer
- 20% increment ranges are now available for 100% stacked bar chart bar chart in x-axis and 100% stacked column visual in y-axis

# April 2023 QFE 1

*Version: 2.116.843.0, Released: April 19, 2023*

Bug fixes/improvements:

- Fixed issues with x86 installer
- Fix to title bar. Customers are now able to update from *Untitled* to the Report Title

# March 2023 QFE 2

*Version: 2.115.1006.0, Released: April 03, 2023*

Bug fixes/improvements:

- Fix for Proxy models. Customers can now use calculated column with time intelligence function.
- Reduced installer file size to match previous version.

# March 2023 QFE 1

*Version: 2.115.842.0, Released: March 24, 2023*

Bug fixes/improvements:

- Fix for on-object interaction. Customers can now update selected items from the dropdown selection menu.
- Fix for visuals with rounded corners. Default padding values now aligned with border radius.

# February 2023 QFE 2

*Version: 2.114.864.0, Released: February 23, 2023*

Bug fixes/improvements:

- Fixed issues with x86 installer

# February 2023 QFE 1

*Version: 2.114.803.0, Released: February 21, 2023*

Bug fixes/improvements:

- Fix for Proxy models regression. Customers can now convert PBI semantic models and AS Live models with format strings to Direct Query and refresh existing models.
- Fix for creating Power Apps and Power Automate visuals.
- Fix for windows and dialogs rendering in some multimonitor configurations.
- Filter pane regression fix. Filter card input will now show blank values as default when advanced filtering is selected.

## December 2022 QFE 1

*Version: 2.112.1161.0, Released: January 10, 2023*

Bug fixes/improvements:

- AS Engine fix. DAX queries that contain query-scope calculated tables and send through external tools won't return error in certain cases.
- DAX window functions fix. Now function won't return error in certain cases when the *relation* parameter use CalculateTable function.
- Fix to data view filter menu. Customers will see correct distinct values after applying filter/sort by another column.

## October 2022 QFE 2

*Version: 2.110.1161.0, Released: November 7, 2022*

Bug fixes/improvements:

- Fix for modeling regression: customers can now rename fields in tables created using DAX expressions, such as Calendar functions and Field parameter tables.

## October 2022 QFE 1

*Version: 2.110.1085.0, Released: November 3, 2022*

Bug fixes/improvements:

- Fix for Formula bar in model view: customers won't get an error message when deleting a table with selected DAX expression in Formula bar.
- Fix for Formula bar in model view: customers can now edit DAX expressions that contain special Japanese symbols.

- Fix for Proxy models regression: customers can now rename fields after converting Live connect model to a local model.

## September 2022 QFE 3

*Version: 2.109.1021.0, Released: October 4, 2022*

Bug fixes/improvements:

- Performance regression fix: customers will now see faster performance when they open and save .pbix files that have a large number of queries.

## September 2022 QFE 2

*Version: 2.109.844.0, Released: September 28, 2022*

Bug fixes/improvements:

- Horizontal Fusion improvement: now covers more query patterns, including patterns that rely on *TreatAs* to filter results.

## September 2022 QFE 1

*Version: 2.109.782.0, Released: September 20, 2022*

Bug fixes/improvements:

- Fix for Card visual: users can now set and modify the conditional formatting options to callout value color.
- Fix for charts with multiple series: conditional formatting will now correctly apply multiple colors to data labels.

## August 2022 QFE 2

*Version: 2.108.997.0, Released: August 25, 2022*

Bug fixes/improvements:

- Fix for OAuth token refresh for certain data sources like Synapse.
- Fix for live connections to AS models that have columns or measures included in more than one nested display folder.

- Data view regression fix: now list of filters in context menu will be displayed even when menu icons aren't in focus.
- EvaluateAndLog DAX function fix: now the function works as expected and won't return an error.
- SAP HANA regression fixes: now power query won't show "the index is outside the bounds of the records" error message and there won't be missing values for columns when using Cube.AttributeMemberID on the query.
- Roll back change for caching: caching is done the same way as in previous releases
- Formula bar fixes for cases when **Shift+Enter** is used.
- "Apply/discard changes" regression fix.

## August 2022 QFE 1

*Version: 2.108.825.0, Released: August 18, 2022*

Bug fixes/improvements:

- Fix for PBIX open file issue when connecting to Proxy models.
- Data view filtering regression fix: now when filtering wide tables by selecting one column and scrolling to select one more column, the filtering/scrolling will work, and user will be able to select a column at the end of a wide table.
- Data view regression fix: date and number filter options will be available in the right-click menu.
- Formula bar fixes for cases when "Shift+Enter" is used.
- "Apply/discard changes" regression fix.

## July 2022 QFE 1

*Version: 2.107.841.0, Released: July 21, 2022*

Bug fixes/improvements:

- Fix for SAP BW: now customers are able to retrieve a full semantic model when querying SAP BW and using paging operations (Table.skip, Table.FirstN etc.) even if the data exceeds the page size.
- Fix for SAP HANA: now when creating new connections or refreshing data, a display name is shown instead of a technical column name in the fields well.

## June 2022 QFE 1

*Version: 2.106.883.0, Released: June 28, 2022*

Bug fixes/improvements:

- Fix for the start-up Sign-In ThreadStateException: now the logic for the sign-in process is split into two separate steps (users attempt to sign-in using cached credentials in the background as the first step, and then if needed they're returned back to the UI thread for the second step, that previously caused the ThreadStateException, and sign in with platform credentials).
- Fix for the legend color: now it will be the same for PBI Desktop and PBI Service.
- Fix for broken export 'data to file' content from custom visuals.
- Fix for custom visuals using API above 4.4: definition for 4.5 and 4.6 custom visual API versions was added, and these custom visuals now run as expected.

## May 2022 QFE 2

*Version: 2.105.1143.0, Released: June 3, 2022*

Bug fixes/improvements:

- Fix for the Azure Active Directory authentication issue on WebView2: now users will be able to authenticate and connect to all MS Azure AD resources.
- Assert failure fix for column names longer than 30 characters: now users will be able to connect to tables with columns names longer than 30 characters and refresh them.

## May 2022 QFE 1

*Version: 2.105.923.0, Released: May 23, 2022*

Bug fixes/improvements:

- Datamarts data sources fix: primary keys are now supported.
- Axis scale setting persistence fix through version updates for category axis for scatter, line, stacked area, area and combo charts: now the setting for categorical axis with a log axis will persist.

## April 2022 QFE 1

*Version: 2.104.941.0, Released: April 26, 2022*

Bug fixes/improvements:

- Fix for DAX expressions: the DAX parsing process in the formula bar now runs faster and the application doesn't hang.

- Fix for DirectQuery connections in Shared: it's now possible to add a DirectQuery connection to an existing report.
- Fix for the format pane of bar charts: X-axis and Y-axis field well names are now mapped correctly and only their names are displayed.
- Fix for stacked column charts with logarithmic scale: users can now apply Y axis log scale even if the legend field is present.
- Fix for the condition used to test disabled date bounds in calendar: users can now select last date in the calendar popup.

## March 2022 QFE 1

*Version: 2.103.881.0, Released: March 28, 2022*

Bug fixes/improvements:

- Fix for the new format pane of matrix visuals: now the URL icon on rows/columns & horizontal scroll bar will work.
- Date picker defaults fix: now for the existing reports the datepicker icon in date range slicers won't be available and as a result, users' reports won't be changed.
- Model refresh fix: now column descriptions for SimpleQueryMappingInput table inputs won't disappear after the model refresh.
- AS engine fix: now the `language` in the AS config file will always be set to en-us regardless of the Power BI Desktop UI language to prevent issues with the AS engine's start.
- Keyboard Navigation fix for the selection pane: now it will be accessible by keyboard while navigation is defined under "Format" tab.

## February 2022 QFE 1

*Version: 2.102.845.0, Released: February 24, 2022*

Bug fixes/improvements:

- Dynamics 365 (Dataverse) entry in GetData, which redirects to Dataverse connector is removed from the GetData list.
- Fix for the conditional formatting regression: conditional formatting for action > page navigation will work.
- Fix for fields well description: a multiline field's tooltip won't be cut off and will be fully visible.
- Mashup engine fix: headers will be requested just once when accessing headers on paged HTTP values.
- Fix for a DirectQuery connection to a semantic model in workspace with a '/' in the name.

- Fix for perspective selection in the proxy models navigator.

## December 2021 QFE 3

*Version: 2.100.1401.0, Released: January 20, 2022*

Bug fixes/improvements:

- Fix for creating hybrid incremental refresh policies on DirectQuery over M queries: now users will be able to create a hybrid incremental refresh policy for the import tables that use DirectQuery over M.
- Fix for the "Power BI Desktop infrastructure update" preview feature: now when the feature is on, Quick measure dropdown dialog won't gray out and will work as expected.
- Fix for Proxy models: now when adding new table on the proxy source relationship with IncludeFutureArtifacts = false, the relationship to the original table will be created and proxy model will be refreshed.

## December 2021 QFE 2

*Version: 2.100.1182.0, Released: January 10, 2022*

Bug fixes/improvements:

- Fix for the drop action: now no exception/error message will appear when dragging and dropping into a drill-through bucket.
- AS engine start telemetry fix: Power BI application and the corresponding AS engine process should start successfully after locking/unlocking the screen.

## December 2021 QFE 1

*Version: 2.100.785.0, Released: December 21, 2021*

Bug fixes/improvements:

- Fix for calculation groups: duplicated measures won't be shown in the field list for PBIX files with calculation groups.
- Accessibility fixes for hierarchical slicer.

## November 2021 QFE 2

*Version: 2.99.862.0, Released: November 30, 2021*

Bug fixes/improvements:

- Fix for ArcGIS Maps visual sign-in issue: now the sign-in window for the visual will pop up (when "Power BI Desktop infrastructure update" preview feature is off).

## November 2021 QFE 1

*Version: 2.99.782.0, Released: November 23, 2021*

Bug fixes/improvements:

- Fix for Custom Visuals Store: now if a user isn't connected to the internet, they can still close the marketplace window.
- Fix for Print to PDF: now works for users that have the WebView2 feature turned off and don't have the new version of WebView2 installed.

## October 2021 QFE 3

*Version: 2.98.1025.0, Released: November 3, 2021*

Bug fixes/improvements:

- Formula bar Intellisense fix: now it's possible to save DAX expressions in localized format and use localized DAX separators.

## October 2021 QFE 2

*Version: 2.98.1004.0, Released: October 28, 2021*

Bug fixes/improvements:

- Fix for the progress dialog: now Import/Refresh progress bar will be shown as expected.
- Formula bar fixes:
  - "best" available list will be shown as the suggestion list;
  - the parameter hints intellisense widget will cover function contents for multi-line measures;
  - DAX intellisense service is updated to set the right UI culture and respect localized DAX separate options;
  - the parameter hints will be shown when a suggestion is accepted;
  - error won't be thrown for table names that start with "";
  - few icons are added to the suggestions list to make the suggestion clear and avoid confusion;

- missing function parameter information is added for some DAX functions and now intellisense works for them;
- the latest icon files will be shown for variable and enum formula bar icons.

## October 2021 QFE 1

*Version: 2.98.882.0, Released: October 22, 2021*

Bug fixes/improvements:

- Fix for proxy tables: now when a proxy table is deleted there will be no visible LocalDateTable left.
- Fix for the issue where opening a PBIX file with saved diagram layouts wouldn't properly restore those layouts in the model view.

## September 2021 QFE 2

*Version: 2.97.921.0, Released: September 28, 2021*

Bug fixes/improvements:

- Fix for proxy schema sync ordering issue: now when changing data source, refresh won't fail due to resolvable relationship ambiguity.

## September 2021 QFE 1

*Version: 2.97.861.0, Released: September 24, 2021*

Bug fixes/improvements:

- Azure Analysis Services fix: now when connecting to AAS and proxy detection is required, the connection will succeed.

## August 2021 QFE 2

*Version: 2.96.1061.0, Released: August 30, 2021*

Bug fixes/improvements:

- Fix for custom visuals: now there will be no crash if a managed organizational store custom visual doesn't appear in the app source.

# August 2021 QFE 1

*Version: 2.96.901.0, Released: August 23, 2021*

Bug fixes/improvements:

- Fix to hide Business apps launch event ad.
- Fix for Query Editor: now 'Enable load' will work after the query was renamed.

# July 2021 QFE 1

*Version: 2.95.983.0, Released: July 29, 2021*

Bug fixes/improvements:

- Fix for script visuals: now they can be enabled.
- Fix for SAP BW reports: now tables aren't duplicated if a user selects refresh.
- Fix for Enhanced-Tooltips: now tooltips stick long enough for users to interact with the drill buttons in the tooltip.

# June 2021 QFE 1

*Version: 2.94.921.0, Released: June 29, 2021*

Bug fixes/improvements:

- Fix for Google Auth: Google Auth is moved to System Browser (non-embedded) to allow users to sign in to Google Analytics and Google Big Query.
- Fix for FinalNameCalculator that treated measure names as case sensitive: now when looking for measure name conflicts case will be ignored.
- Fix for Q&A visual: now visual column renames are recognized as synonyms.

# May 2021 QFE 1

*Version: 2.93.981.0, Released: May 27, 2021*

Bug fixes/improvements:

- Registry settings improvement: now registry settings are applied according to the [Desktop evaluation configuration](#) article and impact evaluations are done in the Analysis Services process (msmdsrv.exe) as well as the Power BI Desktop process (PBIDesktop.exe).

# April 2021 QFE 2

*Version: 2.92.1067.0, Released: May 4, 2021*

Bug fixes/improvements:

- Fix for Adobe Analytics Connector V1 endpoint token not renewed issue.
- Fix for a frown error that could occur in the model view while loading older PBIX files: now no frown dialog will be shown.
- Fix for a model view bug: now users can't create relationships between DirectQuery tables from the same Power BI semantic model or Azure Analysis Services instance as this scenario isn't supported.

# April 2021 QFE 1

*Version: 2.92.943.0, Released: April 27, 2021*

Bug fixes/improvements:

- Improvements in Microsoft Information Protection SDK detection of the machine stopping to respond and stop throwing "Unknown hard error" dialog.
- Fix for corrupted credentials: users won't get the alert warning that their credentials can't be decrypted, now users may consider manually removing credentials folder (user.zip file) as a workaround.

# March 2021 QFE 1

*Version: 2.91.884.0, Released: March 29, 2021*

Bug fixes:

- Fix where the Microsoft Information Protection SDK stops responding during evaluation shutdown.
- Amazon Redshift driver update to fix the issue with non-nullable primary key columns being treated as empty strings after merge queries.
- Fix for slicers to contain unique (non-duplicated) values when using aggregations.
- Fix for formula bar: prevent UI interactions when empty measures, calculated columns, calculated tables are deleted from the model.
- Fix for PBI.FormatAnnotationStats telemetry event.
- Fix for customized fields display folders: now the folders won't disappear after data refresh or **Choose Columns** changes in Power Query.
- ODBC drivers update to newer versions.

- Fix for Microsoft Purview Information Protection timeout issues: now when a user opens a file or signs in and faces network issues, MIP exception won't pop up.

## February 2021 QFE 1

*Version: 2.90.1081.0, Released: March 8, 2021*

### Bug fixes:

- Fix for Azure Analysis Services OAuth token refresh.
- Fix for Power Query model import from Excel to Power BI Desktop.
- Fix for combo chart with dynamic format strings, series, categories, column values, and line values.
- Fix for Power BI Desktop save validation: now it doesn't overwrite the customer's previous file with an invalid .pbix file, if it's caused by Analysis Services writing to the zip file.
- Fix for Model view large .pbix files: now it will not throw an error when you quickly switch to model view.
- Fix for Model view blurry fields and icon text inside a table card.
- Fix for Color picker: now it closes when you press ESC.

## Related content

- [What's new in Power BI](#)
- [Previous monthly updates to Power BI](#)

More questions? [Try asking the Power BI Community](#) .

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Last updated on 12/11/2025

# Power BI Desktop Send a Smile privacy statement

Article • 02/28/2025

Error reporting uses the Windows Error Reporting platform rather than the *Send a Smile* or *Send a Frown* functionality. You can get more information about the Windows Error Reporting platform in the [Windows Privacy blog](#).

## For versions of Power BI Desktop prior to March 2018

At Microsoft, we work hard to protect your privacy while delivering products that bring you the performance, power, and convenience you want. This privacy statement explains many of the data collection and use practices of Microsoft Power BI Desktop Feedback *Send a Smile*. It doesn't apply to other online or offline Microsoft sites, products, or services.

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*Send a Smile* for Power BI Desktop allows you to send an email address with your feedback. This email address is used to contact you if Microsoft needs further information or clarification on your request. You don't have to register your email address with Microsoft to use *Send a Smile*.

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*Send a Smile* automatically collects some information about your system configuration, standard computer information, and basic information about how you use Microsoft products. This information is sent when you choose to send feedback.

*Send a Smile* generally collects information about:

- System configuration, such as the operating system version and architecture that you use (32-bit vs. 64-bit).

- Standard computer information, such as the Power BI Desktop, Internet Explorer version, and CLR version that you're using.
- Power BI Desktop program usage, such as File Package Info (Document Locale, Fast Combine Enabled/Disabled state), Enabled and Disabled Preview Features, DirectQuery vs. Import mode, current Working Set, and Peak Virtual Memory used in the current session.

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- To improve the product or service—for example, bug and survey form inquiries.

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## Feedback

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# Power BI Desktop diagnostics collection

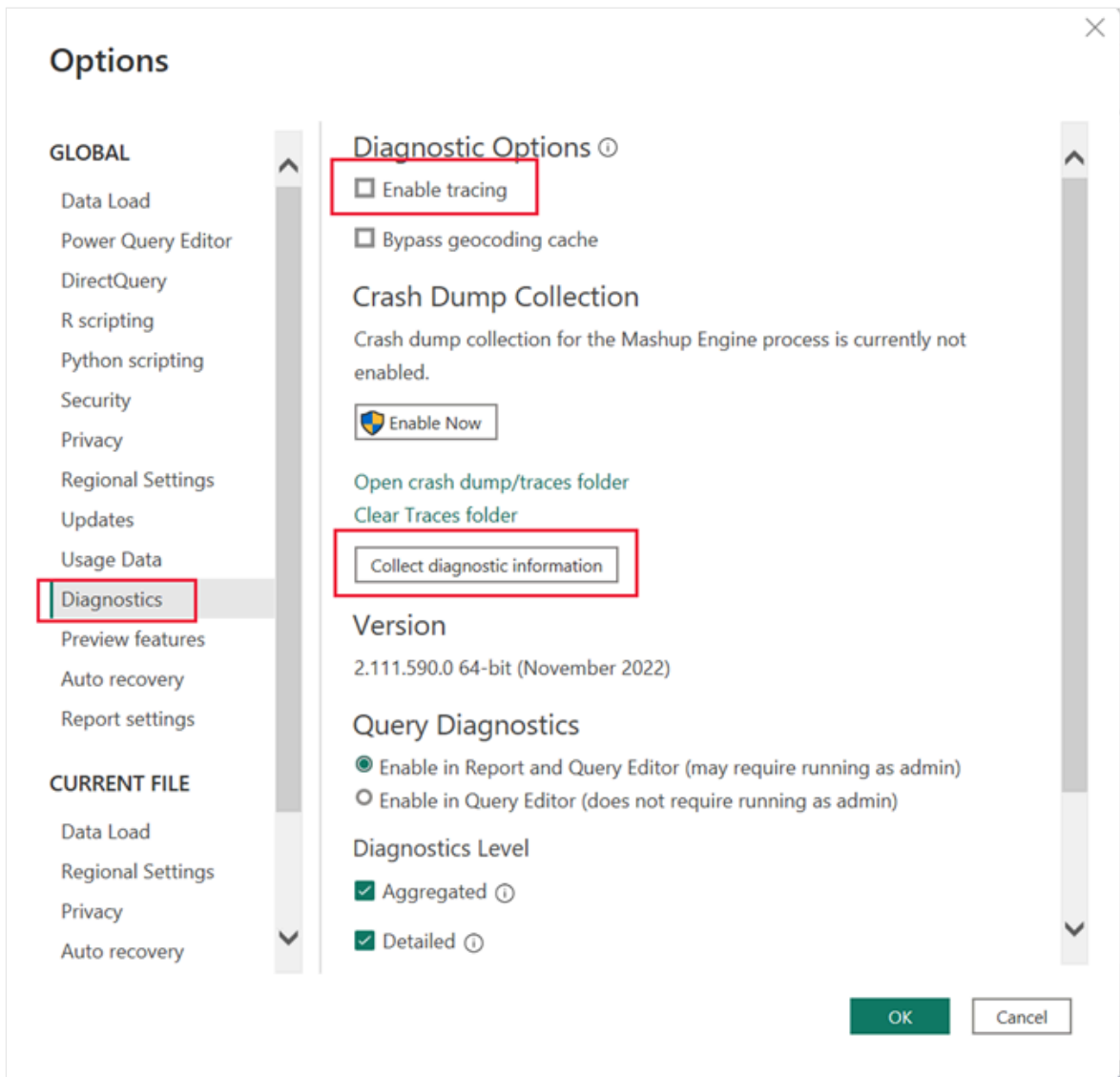
Article • 02/28/2025

To provide better supportability and diagnostics, Power BI Desktop can collect and submit diagnostic information. The process of collecting and sending Power BI diagnostic information is simple and easy to use. You should only save diagnostic details when instructed to do so by Microsoft Support.

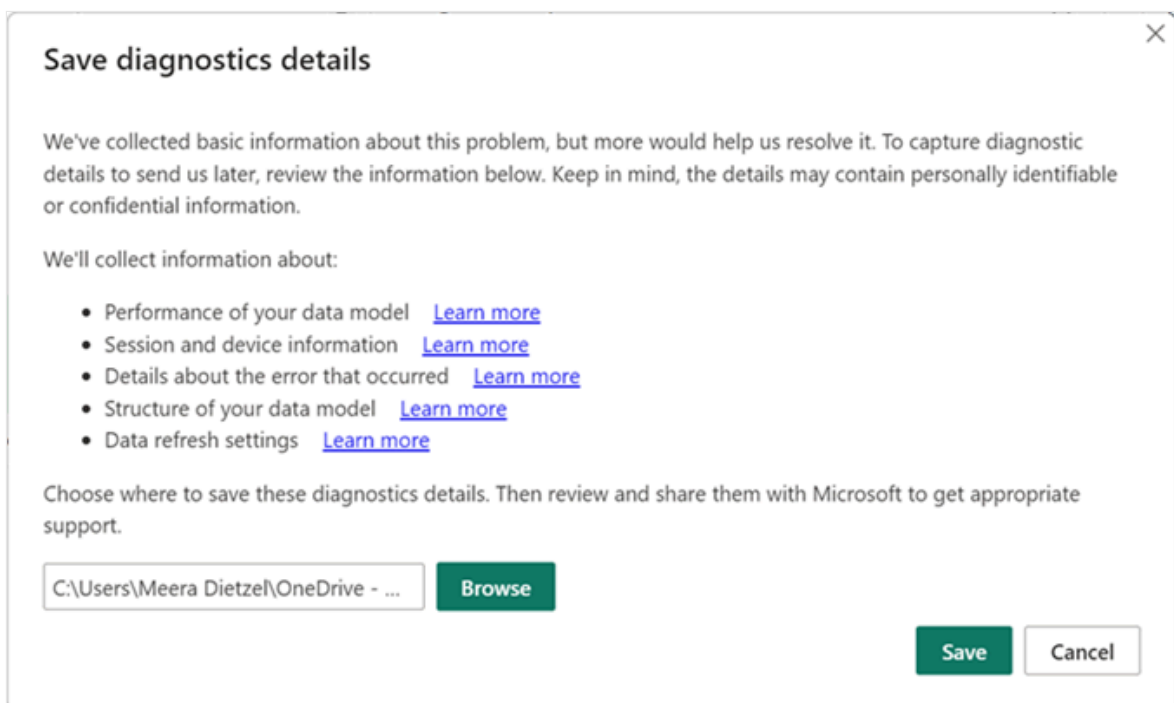
## How to save diagnostics details in Power BI Desktop

To save diagnostic information in Power BI Desktop:

1. In Power BI Desktop, select **File > Options and settings > Options**.
2. Under **Global**, select **Diagnostics**.
3. Select **Enable tracing**.
4. Select **Collect diagnostic information**.



5. After you select **Collect diagnostic information**, the **Save diagnostics details** dialog appears:



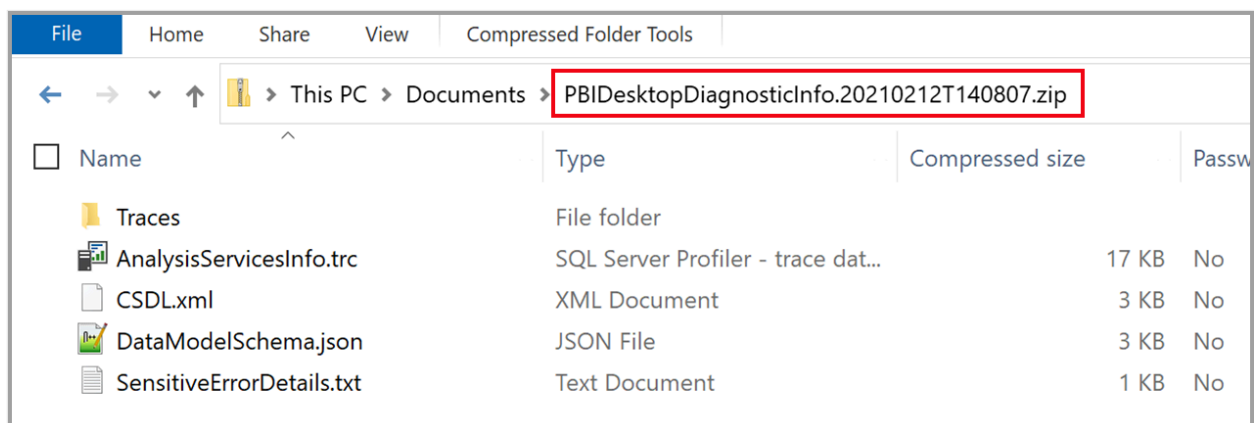
Review the information provided in the dialog. To learn more about the information collected, see the [Diagnostic information collected](#) section in this article.

By default, the diagnostic details are saved in your **Documents** folder. Select **Browse** to navigate to and select another location.

After you select a new location for Power BI Desktop to save the diagnostic information, select **Save**. The **Save diagnostics details** dialog opens. Select **Open** to view your diagnostic information in a compressed folder named **PBIDesktopDiagnosticInfo.[timestamp].zip** in the location you specified.


The diagnostics ZIP file might contain the following files and directories, based on what happened on your computer and your settings:

- **ErrorsInfo.yaml** - Contains [details about any errors that occurred](#) and gets created only if an error dialog was shown.
- **PackagingErrorsInfo.yaml** - Contains information about any errors that occurred during detail collection.
- **AnalysisServicesInfo.trc** - Contains information [about the performance of your data model](#).
- **SessionDeviceInfo.txt** - Contains [session and device information](#).
- **AutoPageRefresh.json** - Contains [the data refresh settings](#).
- **CSDL.xml** - Describes the [structure of the data model](#).
- **DatabaseSchema.json** - Describes the [structure of the data model](#).
- **DataModelSchema.json** - Describes the [structure of the data model](#).
- **Traces** folder and files - Contains detailed [session and device information](#).
- **QueryEvaluations.json** - Contains evaluation results when loading or refreshing a query.
- **RemoteCsdl.json** - Describes the [structure of the remote data models](#)



If requested by Microsoft support, send the ZIP file containing the diagnostic details.

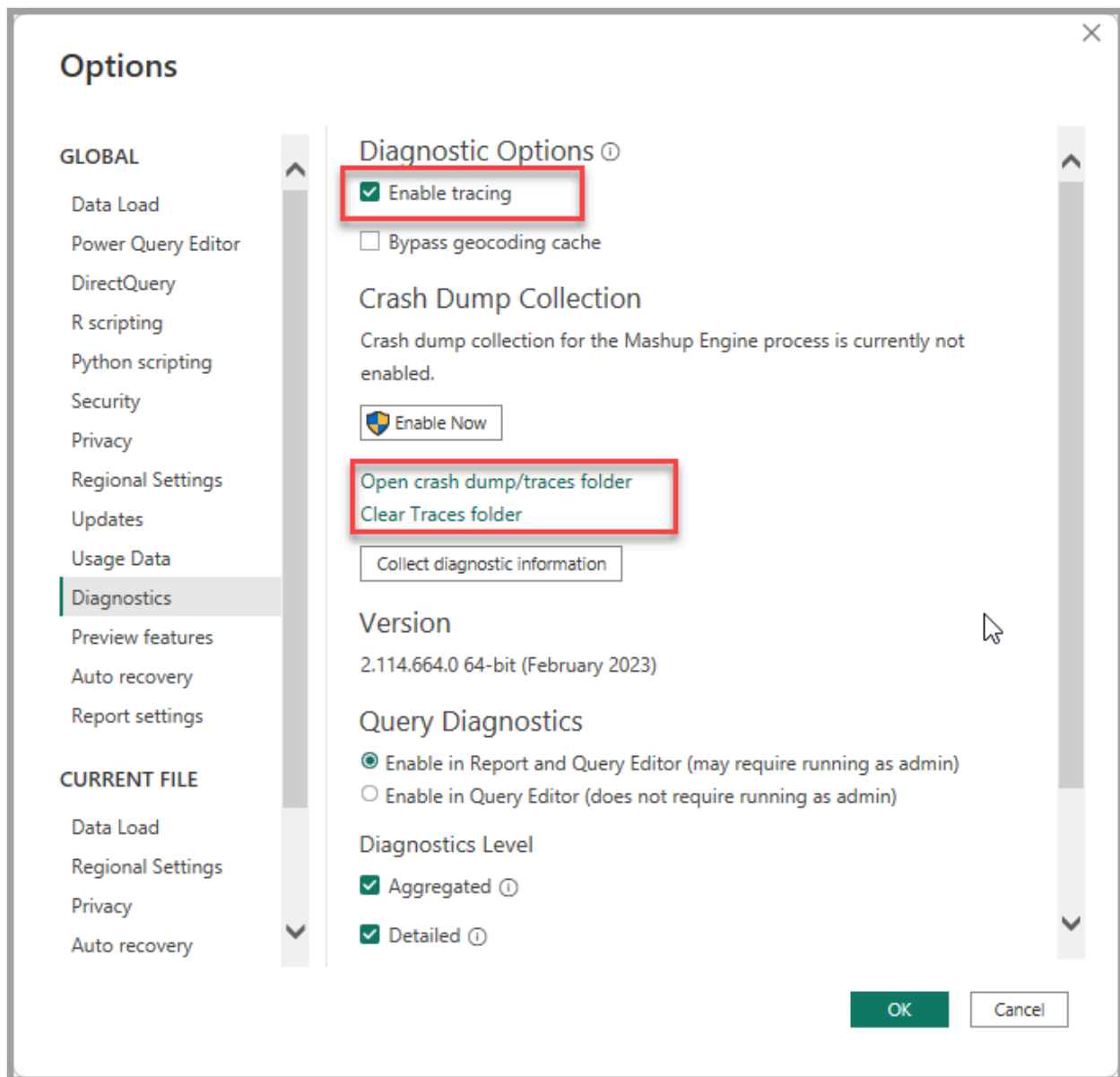
The following video shows the diagnostics collection process:

<https://learn-video.azurefd.net/vod/player?id=0250abc0-9ae7-4308-9b8e-63c0a2eab43b&locale=en-us&embedUrl=%2Fpower-bi%2Ffundamentals%2Fdesktop-diagnostics> 

## Collecting mashup traces

The steps in the previous section don't include collection of mashup traces. To include mashup traces in your diagnostic collections, follow these steps:

1. Navigate to `%localappdata%\Microsoft\Power BI Desktop\Traces` and clear the contents of that folder. If you need data from that folder for future reference, you can archive it before emptying the folder. If you're using the Microsoft Store version of Power BI Desktop, the path to traces is `%userprofile%\Microsoft\Power BI Desktop Store App\Traces`. To determine which folder is used for crash dumps, you can select the *Open crash dump/traces folder* link in the **Diagnostics** window shown in the following step.
2. Ensure **Enable tracing** is enabled in Power BI Desktop, by navigating to **File > Options and settings > Options** then selecting **Diagnostics** from the sections in the left pane. Ensure **Enable tracing** is checked, as shown in the following image.



3. Reproduce the issue or situation for which you want to collect diagnostics and mashup traces.
4. Close Power BI Desktop to ensure all traces are flushed to the disk.
5. Open `%localappdata%\Microsoft\Power BI Desktop\Traces` (or `%userprofile%\Microsoft\Power BI Desktop Store App\Traces` if you're using the Microsoft Store version of Power BI Desktop) and compress the contents into a ZIP or similar compressed file.
6. Repeat this series of steps for any other scenarios you want to capture.

## Diagnostic information collected

The diagnostic information collected is comprehensive and includes information most commonly required to solve issues. Power BI Desktop collects information about:

- The performance of your data model.
- The current Power BI Desktop session and your device.

- The issue that occurred.
- The structure of your data model.
- Data refresh settings.

The following sections provide more details about the information collected.

## Performance of your data model

The data model performance information helps you analyze the interaction between the Power BI engine and data sources. It's especially relevant in situations where you're experiencing:

- Issues with model performance.
- DirectQuery issues.
- Aggregation issues.

The following information is included:

- The locale of your Power BI Desktop environment
- The Power BI Desktop version
- The path where the currently open *.pbix* file and data model are stored on your computer
- Whether your data model is in import, DirectQuery, or a mixed mode
- Any queries created to generate visuals, including table, column, measure names, and data values if used as a filter

## Session and device information

The session and device information provides insight into the complexity of the queries and features used. It includes information about:

- The operating system, including the version, time zone configuration.
- Hardware, including the memory configuration.
- The Power BI Desktop version.
- The Power BI Desktop configuration, such as whether fast combine is enabled.
- The path to where the trace logs are stored on your local computer.
- The data model default mode (import, DirectQuery, or a mixed mode).
- The data model metadata version.
- The preview features enabled or disabled.
- Any DirectQuery option settings.
- The name of the cloud environment (tenant) where you're signed in (if any).
- Power Query queries.

Session and device information is especially relevant if you're experiencing:

- Issues with report and Power Query performance.
- Issues where Power BI Desktop stops responding, stops unexpectedly, or doesn't load properly.

## Details about the error that occurred

Error information includes exactly which error occurred and where it happened. It also includes a link to where the trace logs are stored on your local computer. It also includes:

- The data model default mode (import, DirectQuery, or a mixed mode).
- The data model metadata version.
- Preview features enabled or disabled in Power BI Desktop.
- The name of the cloud environment (tenant) you're signed into (if any).
- The recent actions you performed, such as adding a field to a visual.
- Power Query queries.

Error information is especially relevant if you're experiencing:

- Issues with report and Power Query performance.
- Issues where Power BI Desktop stops responding, stops unexpectedly, or doesn't load properly.

## Structure of your data model

The information collected is a text description of everything you can see in the data model view in Power BI Desktop, including:

- Table information, including the name and number of rows
- Column information, including the name, data types, number of distinct values, and minimum and maximum values.
- Relationships, including to/from which table and column, direction, cardinality, and other settings.
- Calculated columns definitions.
- Measure definitions.
- Role definitions.
- Remote source structure and query.

Data model structure information is especially relevant if you're experiencing:

- Issues with model performance.

- Issues with modeling in general.

## Data refresh settings

Data refresh information helps you analyze issues with incremental refresh, aggregations, and automatic page refresh. It describes the incremental refresh settings made (including table names), any aggregations defined (including table and column names).

Data refresh information is especially relevant if you're experiencing:

- Issues with incremental and automatic page refresh.
- Issues with aggregations, including performance issues.

## Related content

You can do all sorts of things with Power BI Desktop. For more information about its capabilities, check out the following resources:

- [What is Power BI Desktop?](#)
- [Query overview with Power BI Desktop](#)
- [Data types in Power BI Desktop](#)
- [Shape and combine data with Power BI Desktop](#)
- [Common query tasks in Power BI Desktop](#)

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## Feedback

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# Supported languages and countries/regions for Power BI

10/01/2025

This article covers supported languages and countries/regions for the Power BI service, Power BI Desktop, and Power BI documentation. It also provides information about locale and regional features that make it possible to build multilanguage reports. For example, you can design a Power BI report that renders in English for some users while rendering in Spanish, German, Japanese, or Hindi for other users.

A company or organization might want to build Power BI reports that support multiple languages. Doing so doesn't require them to clone and maintain a separate PBIX project file for each language. Instead, they increase usage and lower report maintenance by designing and implementing a strategy for building multilanguage reports. To try it out yourself, use the Translations Builder tutorial to [build multi language reports in Power BI](#).

## Countries and regions where Power BI is available

For a list of countries and regions where Power BI is available, see the [international availability list](#).

## Languages for the Power BI service

The Power BI service (in the browser) is available in the following 44 languages:

- Arabic
- Basque - Basque
- Bulgarian - Български
- Catalan - català
- Chinese (Simplified) - 中文(简体)
- Chinese (Traditional) - 中文(繁體)
- Croatian - hrvatski
- Czech - čeština
- Danish - dansk
- Dutch - Nederlands
- English - English
- Estonian - eesti
- Finnish - suomi
- French - français

- Galician - galego
- German - Deutsch
- Greek - Ελληνικά
- Hebrew - עברית
- Hindi - हिंदी
- Hungarian - magyar
- Indonesian - Bahasa Indonesia
- Italian - italiano
- Japanese - 日本語
- Kazakh - Қазақ
- Korean - 한국어
- Latvian - latviešu
- Lithuanian - lietuvių
- Malay - Bahasa Melayu
- Norwegian (Bokmål) - norsk (bokmål)
- Polish - Polski
- Portuguese (Brazil) - Português
- Portuguese (Portugal) - português
- Romanian - română
- Russian - Русский
- Serbian (Cyrillic) - српски
- Serbian (Latin) - srpski
- Slovak - slovenčina
- Slovenian - slovenski
- Spanish - español
- Swedish - svenska
- Thai - ไทย
- Turkish - Türkçe
- Ukrainian - українська
- Vietnamese - Tiếng Việt

## Report or dashboard subscription language

When you create a subscription for a report or dashboard, you might be surprised to see that the subscription is in U.S. English, even though Power BI is in another language. If so, you need to specify a language for your browser. See [The language in my subscription isn't correct](#) in the article "Troubleshoot Power BI subscriptions."

## Languages for Power BI Desktop

Power BI Desktop is available in the same languages as the Power BI service, except Hebrew and Arabic. Desktop doesn't support right-to-left languages.

## What's translated

Power BI translates menus, buttons, messages, and other elements of the experience into your language. For example, Power BI translates report content such as automatically generated titles, filters, and tooltips. However, your data isn't automatically translated. Inside reports, the layout of visuals doesn't change if you're using a right-to-left language such as Hebrew.


At this time, a few features are available in English only:

- Dashboards and reports that Power BI creates when you connect to services such as Microsoft Dynamics CRM, Google Analytics, and Salesforce. You can still create your own dashboards and reports in your own language.
- Exploring your data with Q&A.

### ⓘ Note

The [auto date/time feature](#) generates localized month names using the "MMMM" format string. Since most Eastern Asia languages use "OOOO" as the format string, the month names generated by the auto date/time feature aren't localized to those languages.

## Choose your language in the Power BI service

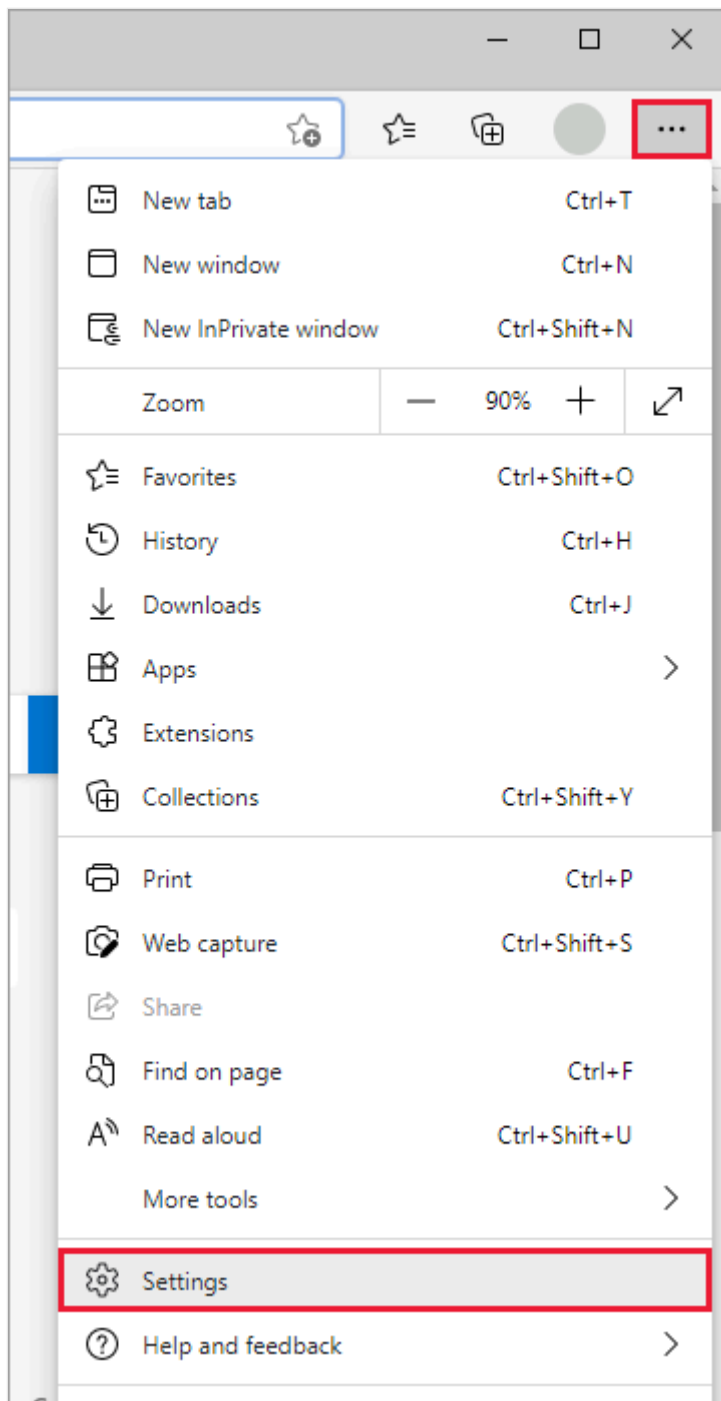
1. In the Power BI service, select the **Settings** icon  > **Settings**.
2. On the **General** tab, select **Language**.
3. Use the language already set for your browser, or select a separate language for the Power BI service.

## Choose your language in the browser

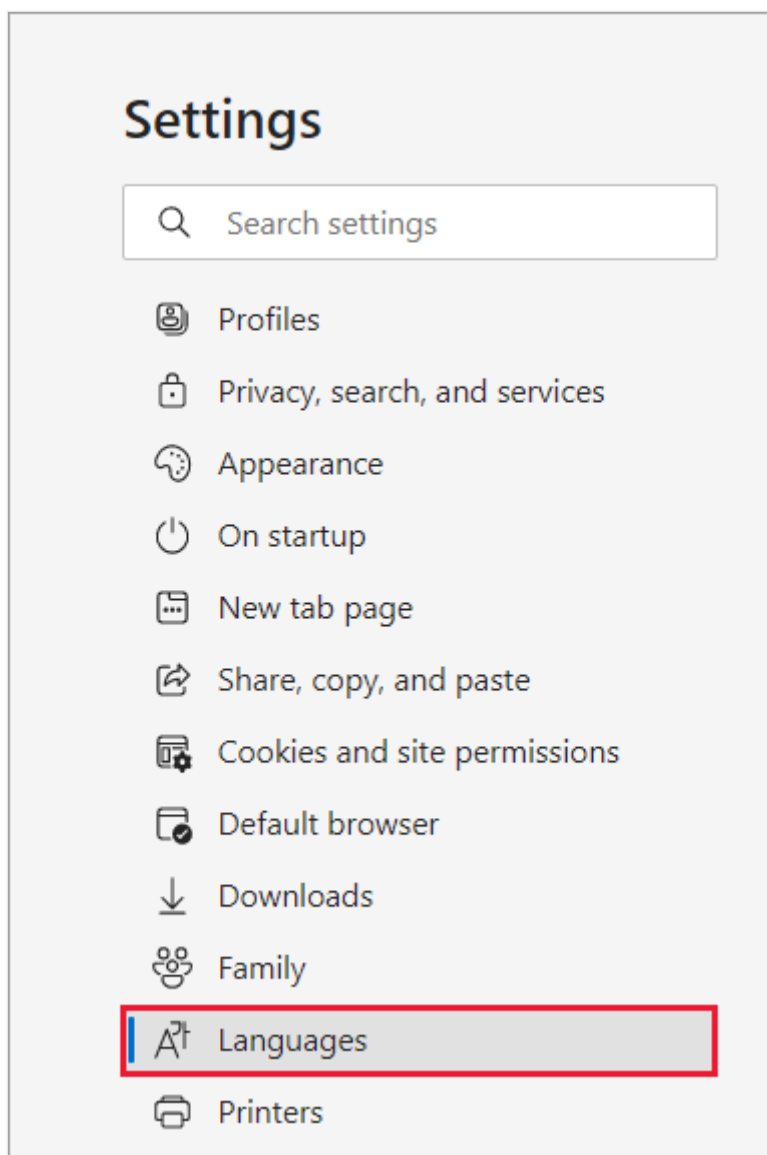
Power BI detects your language based on the language preferences on your computer. The way you access and change these preferences can vary depending on your operating system and browser. Here's how to access these preferences from Microsoft Edge and Google Chrome.

### Microsoft Edge (version 91)

1. Select the **Settings and more** ellipses (...) from the upper right corner of your browser window, and choose **Settings**.



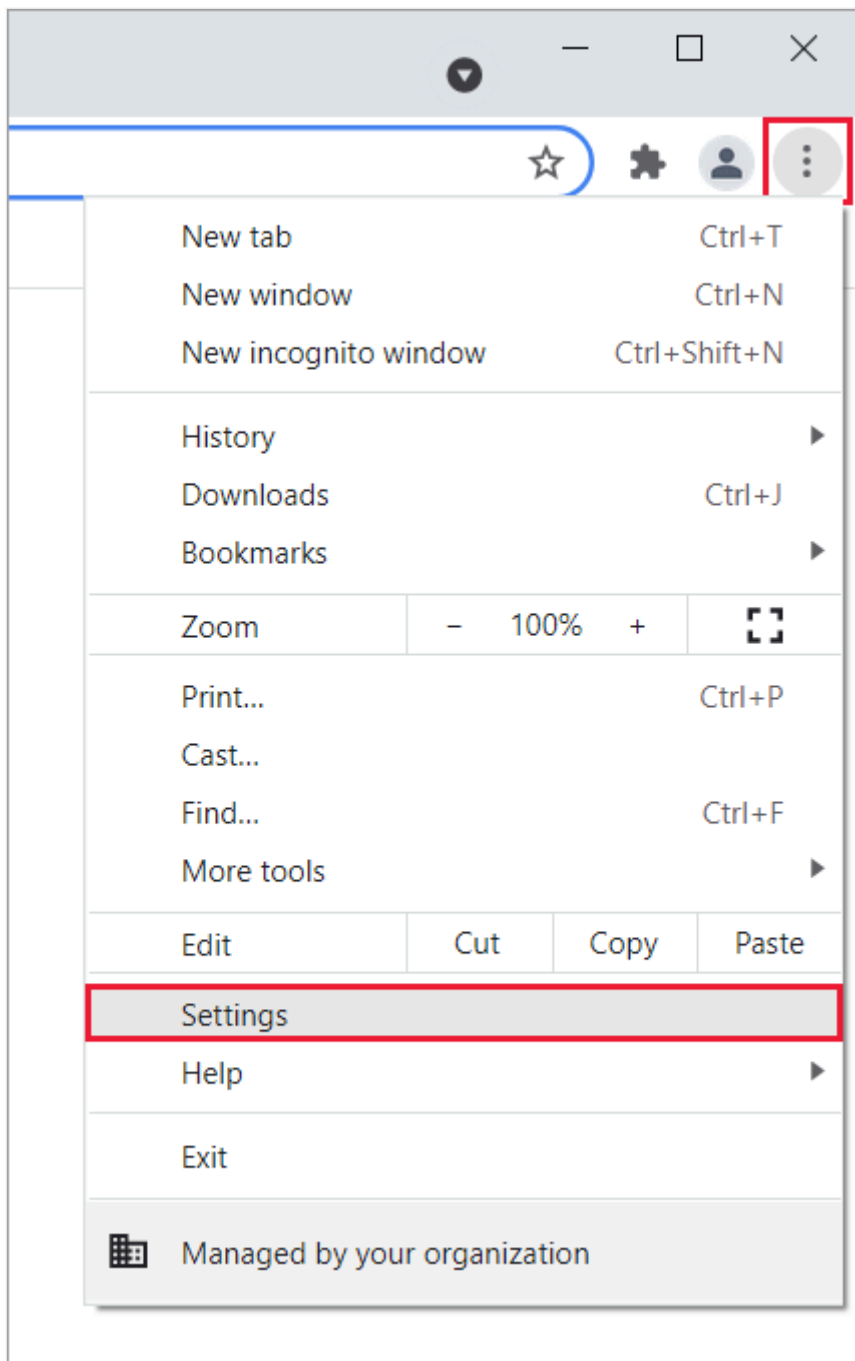
2. Select the **Settings** icon in the upper left corner of your browser window, and choose **Languages**.



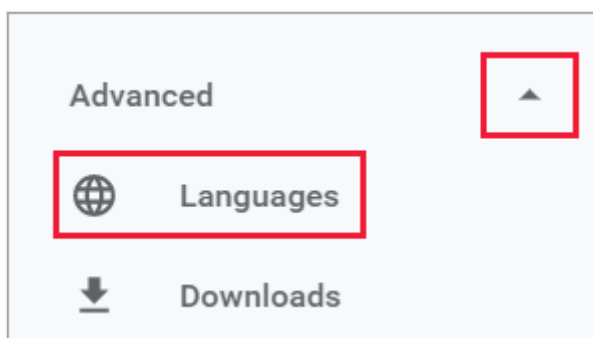
3. Select your preferred language.

## Google Chrome (version 91)

1. Select the menu button in the upper right corner of your browser window, and choose **Settings**.



2. Expand the main menu in the upper left corner and choose **Languages**.



3. To add a new language, select **Add languages**.

You might need to close and reopen your browser to see the change.

# Choose the language or locale of Power BI Desktop

You have two ways of getting Power BI Desktop. You can download it as a standalone installer, or install it from the Windows Store.

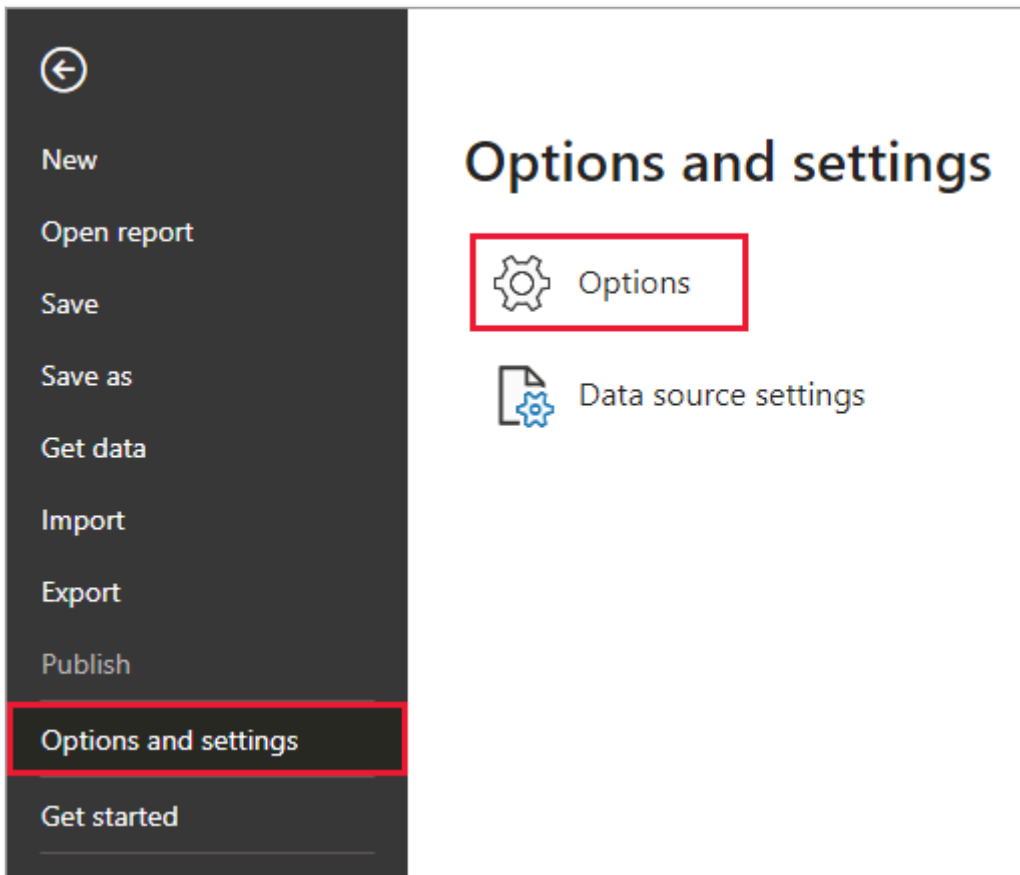
- When you install Power BI Desktop from the Windows Store, it installs all the languages (currently, 42 languages) and by default shows the language that corresponds to the Windows default language.
- When you download Power BI Desktop as a standalone installer, you choose the default language when you run the installer. You can change it at a later date.
- You can also [choose a locale to be used when importing data](#) for a specific report.

## ⓘ Note

If you're installing the version of Power BI Desktop that's optimized for Power BI Report Server, you choose the language when you download. See [Install Power BI Desktop optimized for Power BI Report Server](#) for details.

## Choose a language for Power BI Desktop

1. Install Power BI Desktop [from the Windows Store](#) <sup>↗</sup>, or as a [standalone installer](#) <sup>↗</sup>.
2. To change the language, open Desktop and in the upper left corner select **File > Options and settings > Options**.



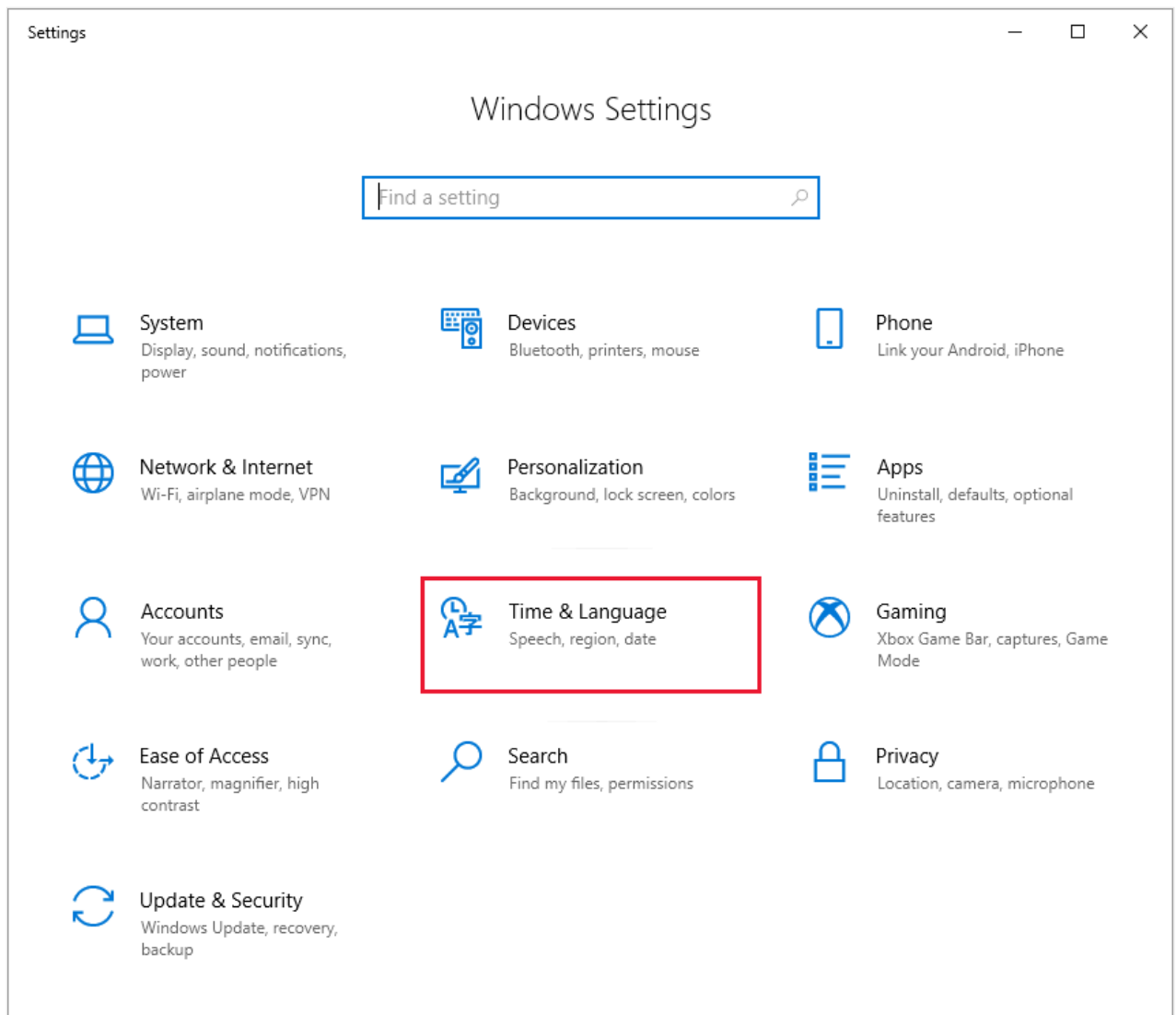
3. Select **Regional settings** and set or change your language preferences.

Language support in Power BI Desktop is limited to the languages displayed in the Application Language dropdown.

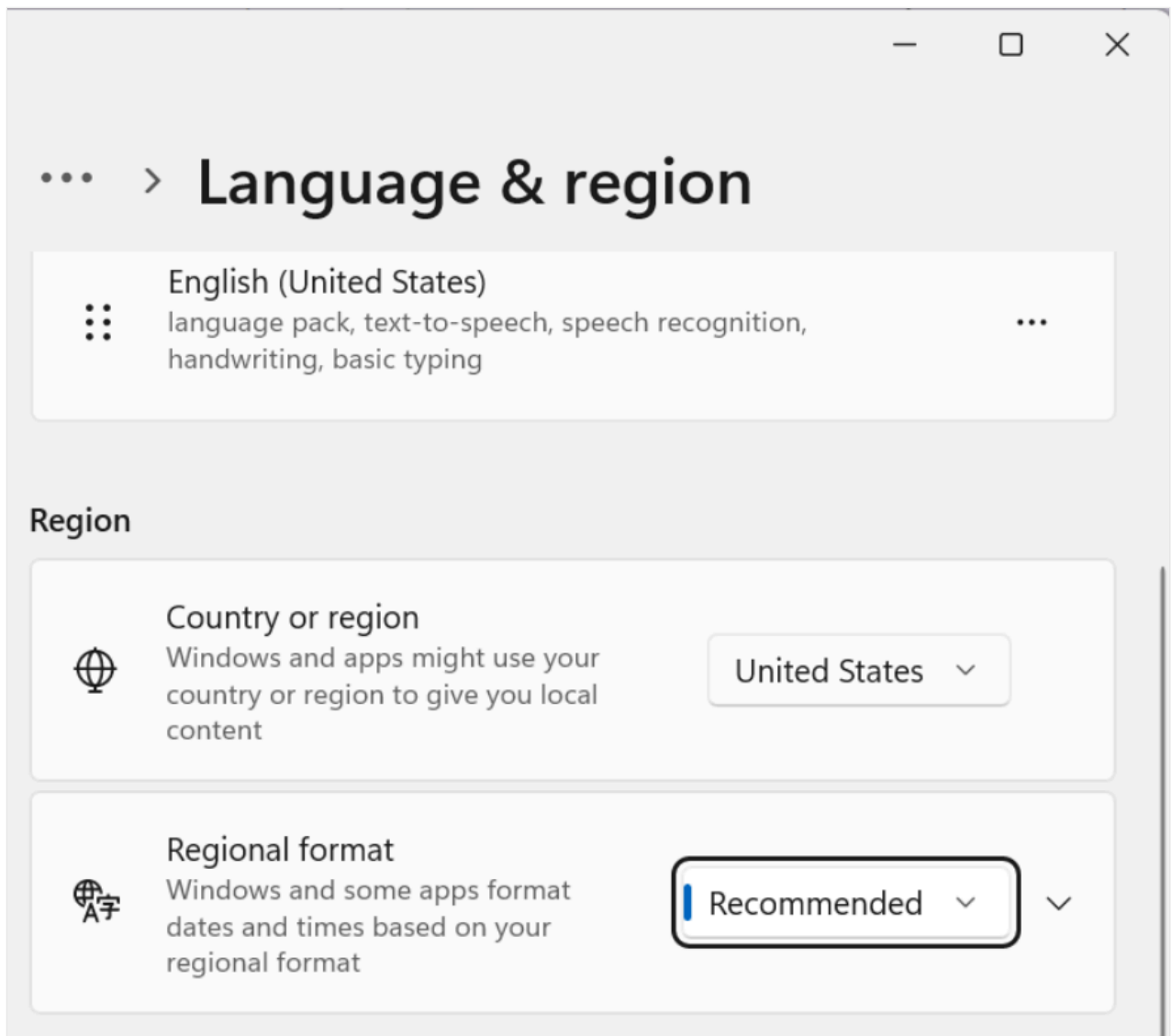
## Verify Power BI Desktop default number and date formatting

Power BI Desktop gets its default number and date formatting from the Windows Region settings. You can check or change those settings, if needed.

1. On the Windows menu, select **Settings**.
2. In **Windows Settings**, select **Time & language**.



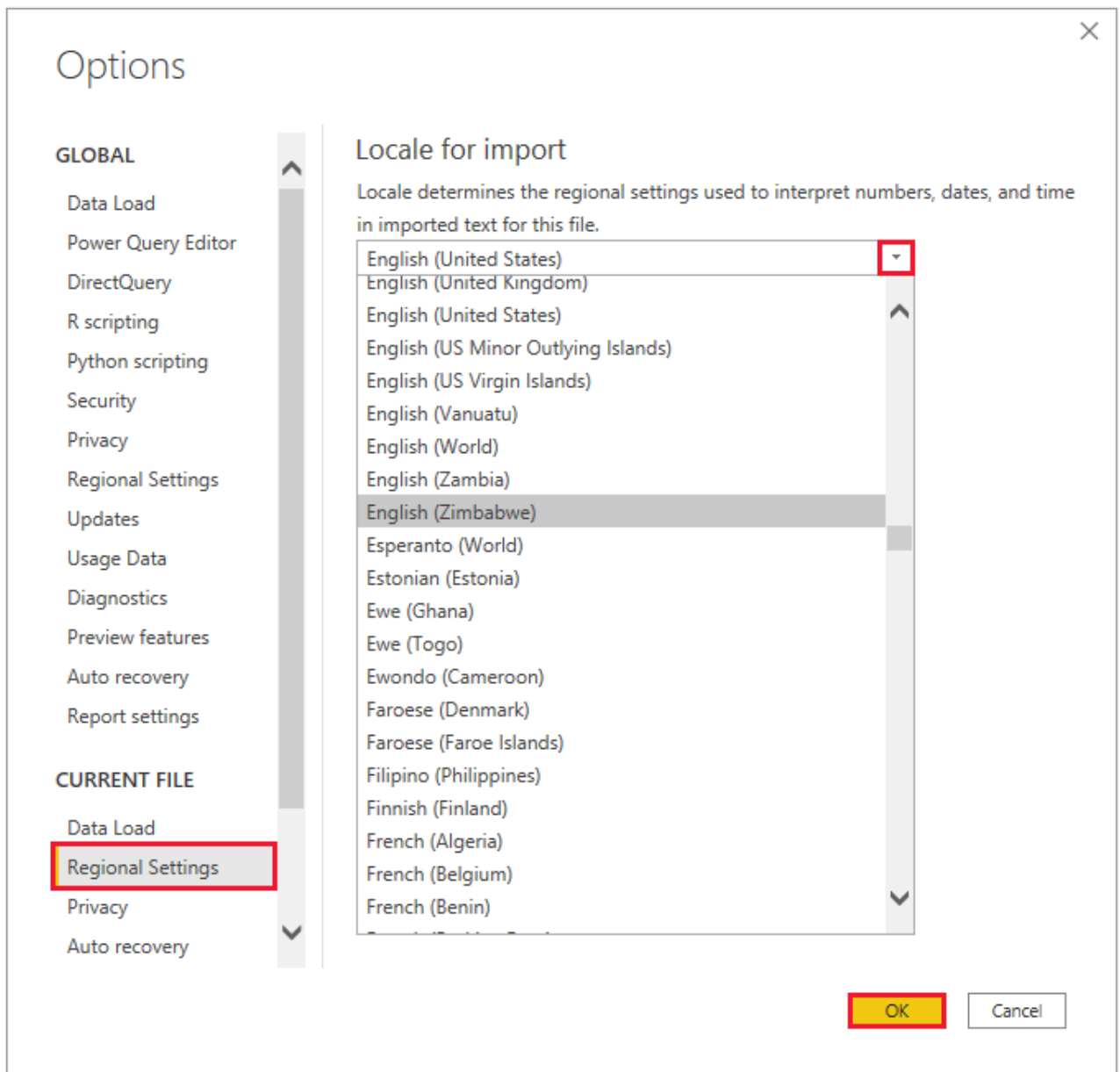
3. Select **Language & Region** > **Additional date, time, and regional settings**. If you don't see this option, scroll down to **Region**. Check and modify the **Country or region** and **Regional format** settings as needed.



## Choose the locale for importing data into Power BI Desktop

Whether you download Power BI Desktop or install it from the Windows Store, you can choose a locale for a specific report to be something other than the locale in your version of Power BI Desktop. The locale changes the way Power BI interprets data when importing from your data source. For example, is "3/4/2017" interpreted as 3 April or March 4?

1. In Power BI Desktop, go to **File > Options and settings > Options**.
2. Under **Current file**, select **Regional Settings**.
3. In the **Locale for import** box, select a different locale.



4. Select OK.

## Choose the language for the model in Power BI Desktop

Besides setting the language for the Power BI Desktop application, you can also set the model language. The model language affects chiefly two things:

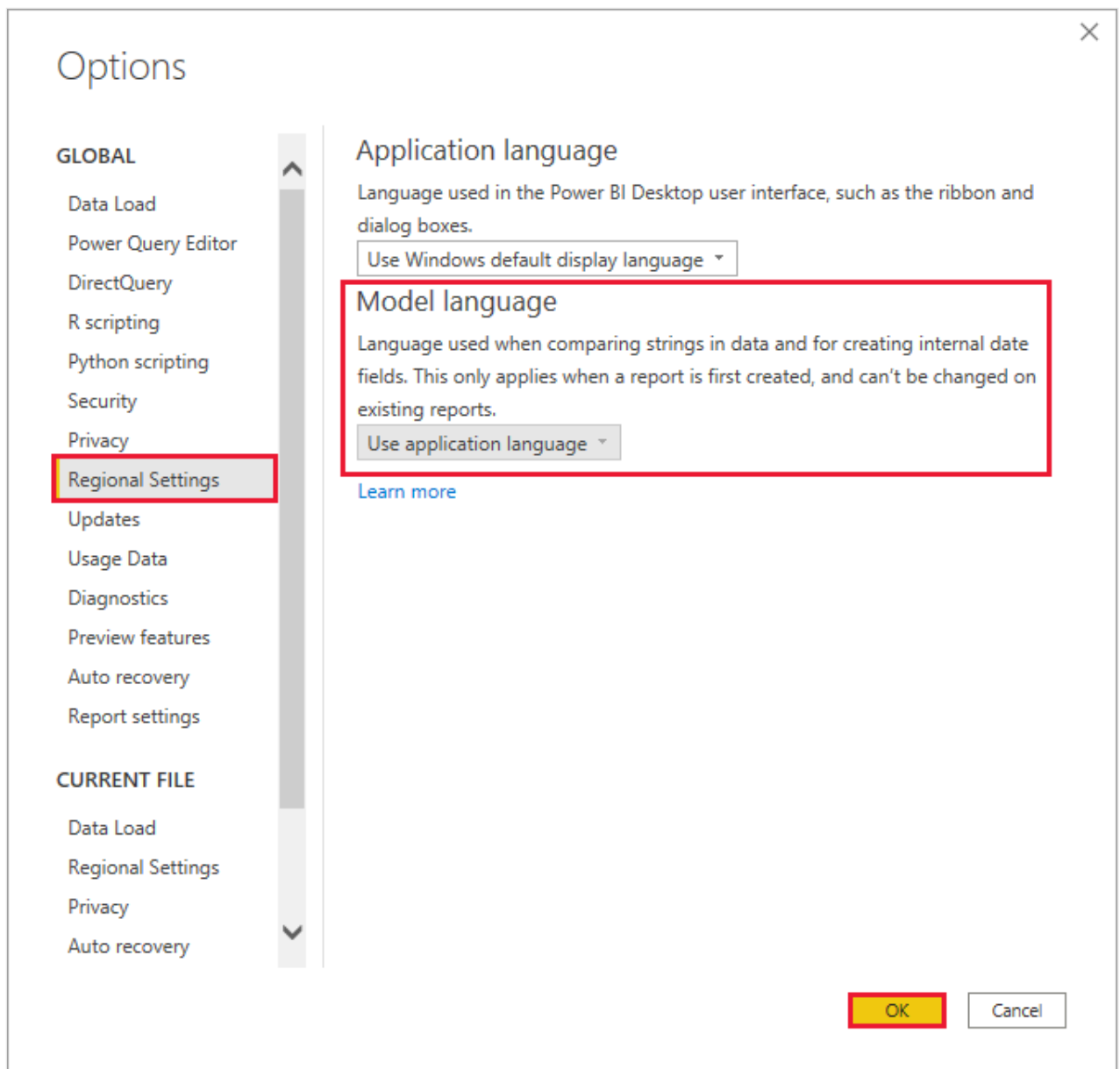
- How we compare and sort strings. For example, because Turkish has two of the letter i, depending on the collation of your database, the two can end up in different orders when sorting.
- The language Power BI Desktop uses when creating hidden date tables from date fields. For example, fields are called Month/Monat/Mois, and so on.

ⓘ Note

The Power BI model currently uses a locale that isn't case-sensitive (or kana-sensitive) so "ABC" and "abc" are treated equally. If "ABC" is loaded into the database first, other strings that differ only by case such as "Abc" don't load as a separate value.

Here's how to set the model language.

1. In Power BI Desktop, go to **File > Options and settings > Options**.
2. Under **Global**, select **Regional Settings**.
3. In the **Model language** box, select a different language.



ⓘ **Note**

Once created, the language of a Power BI model can't be changed.

# Choose the DAX separators in Power BI Desktop

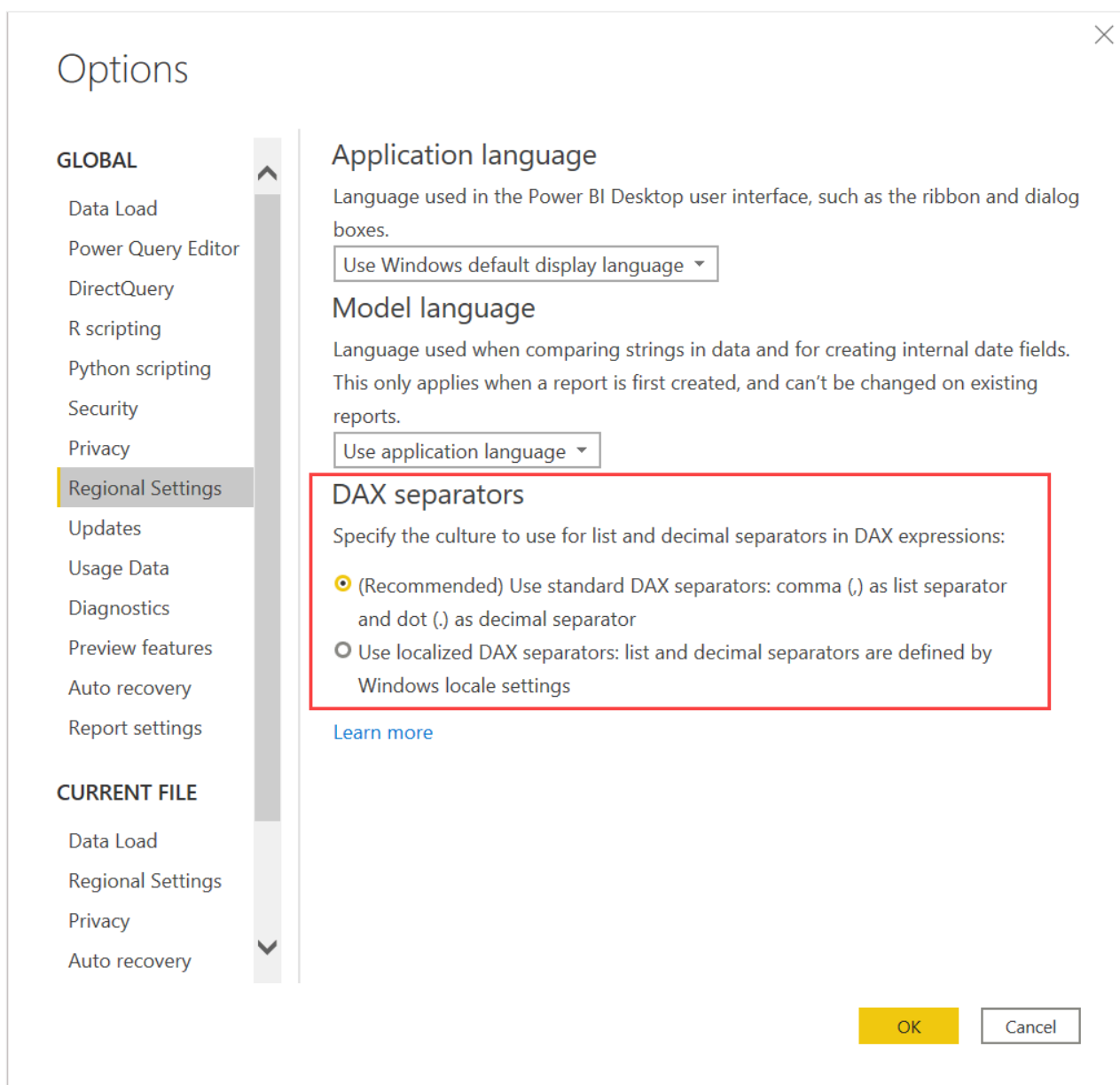
By default, DAX uses commas (,) to separate items in a list and periods (.) to indicate the decimal place in a number. While we do recommend using the defaults, you can use the DAX separators based on your Windows locale settings.

## ⓘ Note

The **DAX separators** section isn't shown if your Windows locale settings are set to "English US".

Here's how to make Power BI Desktop use localized DAX separators:

1. In Power BI Desktop, go to **File > Options and settings > Options**.
2. Under **Global**, select **Regional Settings**.
3. Under **DAX separators** select **Use localized DAX separators**.



### ⓘ Note

The **DAX separators** section isn't shown if your Windows locale settings are set to "English US".

## Languages for the help documentation

Help is localized in these 10 languages:

- Chinese (Simplified) - 中文(简体)
- Chinese (Traditional) - 中文(繁體)
- French - français
- German - Deutsch
- Italian - italiano
- Japanese - 日本語

- Korean - 한국어
- Portuguese (Brazil) - Português
- Russian - Русский
- Spanish - español

## Related content

- [Locale settings for paginated reports.](#)
- Are you using one of the Power BI mobile apps? See [Supported languages in the Power BI mobile apps](#) for details.
- Questions? Try asking the [Power BI Community](#) <sup>↗</sup>.
- Still have an issue? Visit the [Power BI support page](#) <sup>↗</sup>.

 **Note:** The author created this article with assistance from AI. [Learn more](#)

# Supported browsers for Power BI and Fabric

10/15/2025

Power BI and Fabric are designed to work with any of the supported modern browsers mentioned here. However, performance differs depending on your browser choice. If you're using Internet Explorer, which Power BI and Fabric no longer support, you might encounter worse performance. We strongly recommend a supported modern browser, like Microsoft Edge. If you still encounter unacceptable performance, test other supported modern browsers to see if they provide better results for your Power BI solution.

Power BI and Fabric work with these browsers on all platforms where they're available:

- Microsoft Edge version 120 and newer.
- Chrome desktop latest version (newer than Chrome 94) and Windows 10 version 1703 and newer.
- Safari Mac latest version.
- Safari 16.4 and later.
- Firefox desktop latest version (newer than version 93). Firefox might change the fonts used in Power BI.

## Note

Power BI and Fabric don't run in any browsers on iOS 10 or earlier versions.

## Fonts

Power BI and Fabric use the Segoe UI font for text by default, the Din font for numbers, and other fonts when creating reports, dashboards, and other items. These fonts might not be available on non-Windows devices, such as Mac computers. As a result, the font, alignment of items, and visuals for the same report might look different when viewed on a Windows computer versus a Mac.

The Calibri and Cambria fonts are only installed on Mac computers that have Microsoft Office installed. Calibri and Cambria aren't included in the Mac default font set.

## Limitations and considerations

- If you're creating reports viewed on Mac computers, select fonts that display properly on a Mac. The following links provide information about which fonts are available on Mac. Microsoft doesn't support these links. We're providing them only for reference and further reading.
  - [Review the list of typefaces included with macOS.](#) ↗
  - [Find Calibri and Cambria for Mac.](#)↗
  - [Fix missing Calibri, Cambria, and Segoe UI fonts on a Mac.](#) ↗
- Enable third-party cookies. Many areas of Power BI require third party cookies. Ensure that third-party cookies are enabled in your browser settings.
  - Microsoft Edge: Select **Settings > Privacy, search, and services > Cookies**. Ensure that **Allow sites to save and read cookie data (recommended)** is toggled on and **Block third-party cookies** is turned off. Optionally, scroll to **Allowed to save cookies**, select **Add site**, and add **app.powerbi.com**.
  - Chrome: Select **Settings > Privacy and security > Third-party cookies** and ensure that third-party cookies isn't turned off. Optionally, add **app.powerbi.com** to **Sites allowed to use third-party cookies**.
  - Firefox: **Settings > Privacy & security > Cookies and site data > Manage exceptions** and add **app.powerbi.com**.

## Related content

- [What is Power BI?](#)
- Check out the [Power BI forums](#) ↗.
- Still have an issue? Visit the [Fabric support page](#) ↗ .