

Copilot in Microsoft Fabric

Frequently asked questions

**NOTE: THIS FAQ IS CONFIDENTIAL.**

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# COPILOT IN MICROSOFT FABRIC FAQ

## What did we announce at Microsoft Ignite for Copilot in Fabric?

We announced the public preview of Copilot in Fabric, starting with the Power BI, Data Factory, Data Engineering, and Data Science experiences. In Power BI, you can create stunning reports, summarize your insights into narrative summaries in seconds, and generate synonyms for use with the Q&A visual. In Data Factory, you can use Copilot to help you create data flows and transform the data by simply describing what you need. When working in a notebook in Data Engineering or Data Science, you can more quickly enrich, model, analyze, and explore your data. Copilot capabilities for the rest of the Fabric workloads are currently in the works.

## How can customers access Copilot in Microsoft Fabric?

The preview of Copilot in Microsoft Fabric will be rolling out in stages with the goal that all customers with Fabric capacity (F64 or higher) or Power BI Premium capacity (P1 or higher) have access to the Copilot preview by the end of March 2024. Customers don't need to sign up to join the preview, it will automatically become available to customers as a new setting in the Fabric Admin Portal when it is rolled out to their tenant.

## Can I accelerate Copilot access for priority customers?

Yes. Account teams can request an accelerated roll-out process for customers by filling out the [Copilot accelerated access nomination form](https://aka.ms/fabcopilotpreview). Account teams should prioritize customers who have agreed to enable Copilot in their organization within 7-14 days. These requests do not guarantee faster enablement. Please visit this [Copilot in Fabric Public Preview SharePoint](https://aka.ms/fabcopilotpreview) to find the full roll-out process information, the full list requirements and criteria, Copilot in Microsoft Fabric demo videos, and more.

## What license is required to use Copilot in Fabric?

Customers need at least F64 (Fabric SKU) or P1 (Power BI Premium capacity) to access Copilot in Fabric capabilities. Copilot is not included in the Fabric free account or trial. Copilot is not included in Power BI per user licenses.

## How does billing for Copilot in Fabric work?

When charging begins for the Copilot in Fabric experiences, Copilot in Fabric will have its own meter and customers can simply count Copilot usage against their existing Fabric or Power BI Premium capacity. Their Copilot usage will show up as part of their overall bill for Fabric once billing begins—simplifying the purchase journey for our customers. Copilot in Fabric billing won’t launch until sometime in Q3 FY24 and we will notify customers before we start charging.

## How should I answer customer concerns over AI using their data?

We are committed to security, privacy, and compliance across everything we do, and our approach to AI is no different.  Trust has been a fundamental promise we have built into the Microsoft Cloud since the very beginning.

Data is the fuel that powers AI technology – and you need to trust what your technology partners are doing with your data. First, your data is your data. It is not our data. It is your data. That means it is yours to own and control. Your data to choose how you want to leverage and monetize. Your data is not used to train or enrich the foundational AI models used by others without your permission, so you don’t have to worry about anyone other than your organization benefiting from AI that is trained on your data. And your data is protected at every step by the most comprehensive enterprise compliance and security controls in the industry.

Learn about Microsoft’s AI Customer Commitments [here](https://blogs.microsoft.com/blog/2023/06/08/announcing-microsofts-ai-customer-commitments/).

## Does Copilot in Microsoft use shared LLM models across customers?

Microsoft Copilot in Fabric uses standard LLM models hosted in Azure OpenAI Service. Copilot by default uses LLMs within the same region as the tenant. For those regions where LLMs are not available in-region, the Fabric admin can allow Copilot to use LLM resources in other regions. We may also use different region/DCs than selected if capacity runs out in a customers’ chosen region.

## Is Copilot for Power BI and Copilot in Fabric different?

Copilot in Microsoft Fabric is the overall generative AI capability. All the workload-specific Copilot experiences are part of Copilot in Microsoft Fabric. So Copilot for Power BI is part of Copilot in Microsoft Fabric.

Copilot for Power BI refers to the Copilot experience customers receive when they are using the Power BI workload in Fabric.

To use Copilot in Fabric, customers need to have Power BI Premium P-SKUs (with Fabric turned on) or Fabric F-SKUs. There is no licensing difference between Copilot for Power BI and those of other Fabric workloads experience like Copilot for Data Factory in Fabric.

You cannot use Copilot for Power BI with just a Power BI Pro or Premium per user license.

## How can I try these Copilot in Fabric experiences?

Copilot in Microsoft Fabric is now enabled in the MSIT tenant experience for users with Fabric or Power BI Premium capacity. You can use the MSIT tenant to explore and demo Copilot in Microsoft Fabric.

It will soon be enabled for Fabric trials in MSIT as well.

## What Copilot in Fabric assets can I use to show these experiences to customers?

We have several assets that you can use in your customer conversations and many more on the way. We have the Ignite Copilot session [*Build Powerful AI Apps with Copilot in Microsoft Fabric* pitch deck](https://microsoft.seismic.com/Link/Content/DCBHpqBgDW76VGWGcjCp7HdQgmdd) with demo videos, the Build [Copilot in Fabric pitch deck](https://microsoft.seismic.com/Link/Content/DChBG83mHcHBbGhQ6Fb3CVVDDfmV) with demo videos, [Copilot for Power BI pitch deck](https://microsoft.seismic.com/Link/Content/DC9cPphGfW4CMG7D82PPW2q6DMGj), a [Copilot in Fabric sizzle video](https://microsoft.seismic.com/Link/Content/DChGRQjFQ3Rqf8cV4JCbP3XgjRHB), a [Copilot for Power BI sizzle video](https://microsoft.seismic.com/Link/Content/DCMmb3cchTVPVGhB933Jhhj728G8), a [Copilot for Power BI demo video](https://microsoft.seismic.com/Link/Content/DCJCfDR3XQMj48mRCRCVXGFf2FjG), and a [Copilot in Fabric webinar](https://microsoft.seismic.com/Link/Content/DCqTX688BJhRFGhRXMf3RbDV2M78).

You can also demo these experiences right from your MSIT tenant.

## Where can I find a roadmap for Copilot in Fabric?

We are focused on releasing public preview, learning from customers, and building more capabilities for Copilot in Fabric across the experiences. We will notify the field widely when the GA roadmap is released.

Stay tuned to the [Fabric Updates blog](https://blog.fabric.microsoft.com/en-us/blog) for the latest on Copilot in Fabric updates.

## When will Copilot in Fabric be able to achieve what was shared at the preview launch of Fabric at Microsoft Build?

The launch video, from Build 2023, represented a vision of the kinds of capabilities Microsoft intends to build into Copilot in Fabric. Today, we’re starting with specific capabilities and will grow in future releases. It’s critical to have a discussion with customers about their needs for Copilot, where they would benefit the most, and to share these learnings with engineering to contribute to backlog planning.

## What are the settings for Copilot in Fabric? How can customers turn on Copilot? refreshed?

There will be a new tenant setting group called “Copilot and Azure OpenAI Service (preview)” with following two settings:

1. **Users can use a preview of Copilot and other features powered by Azure OpenAI Service**.

* This setting controls if users within the tenant can access Azure OpenAI Service integration features, including all the Copilot experience across various workloads.
* This is default off for all tenants.
* Tenant admins must agree to the Azure OpenAI Service terms and conditions in the pop-up term dialog before enabling this setting.

1. **Data sent to Azure OpenAI Service can be processed outside your tenant’s geographic region, compliance boundary, or national cloud instance.**

* Due to the GPU capacity limitation, Azure OpenAI service is currently only available in limited regions. If the region where the tenant is located does not have Azure OpenAI available or we run out of capacity in customer’s region, the data processing will transfer to the nearest data center with capacity. For this reason, tenant admins must enable this setting first before turning on Azure OpenAI for their tenant.
* This is default off for all tenants.

Below are the lists of supported SKUs for Fabric AI features across different environments:

* Canary and Prod: ["P1", "P2", "P3", "P4", "P5","F64", "F128", "F256", "F512", "F1024", "F2048" ]
* MSIT and below: ["P1", "P2", "P3", "P4", "P5", "F2", "F4", "F8", "F16", "F32", "F64", "F128", "F256", "F512", "F1024", "F2048", "DCT1", "FT1" ]

## Can admins restrict certain or all Copilot workloads to limit consumption? Will the capacity administration apps be refreshed?

We will release multiple Copilot features or experiences across all Fabric workloads. Admins cannot disable individual Copilot features in Fabric; there is a central tenant setting available that will enable or disable Copilot across all workloads.

* Using Copilot in Microsoft Fabric will consume capacity.
* By Ignite the control takes effect for all users under a given tenant.
* Tenant admins can turn Copilot on or off for a certain security group by the end of December.
* Capacity level control is not supported at this time.

## How should I refer to Copilot in Fabric? What about the workload experiences?

“Copilot” is our marketing term for generative AI experiences that work alongside the user to support them in context. By messaging consistently in our marketing and products, we can build equity in the “Copilot” term and help people associate it with powerful and useful experiences across our products.

With that in mind, the following guidance has been approved by the Microsoft Brand team for Copilot in Fabric:

1. **Microsoft Fabric reference:**
   1. First reference: Copilot in Microsoft Fabric
   2. Following mentions: Copilot in Fabric
2. **Workload-specific reference:**
   1. First mention: Copilot for *workload* in Microsoft Fabric
      1. *Examples: Copilot for Power BI in Microsoft Fabric, Copilot for Data Factory in Microsoft Fabric*
   2. Following mentions: Copilot for *workload*
      1. *Examples: Copilot for Power BI, Copilot for Data Factory*
3. **What to avoid:**
   1. Referring to workload at the product level: Copilot in Power BI, Copilot in Data Factory
   2. Putting the product or workload first: Microsoft Fabric Copilot, Data Science Copilot
   3. Adding non-workloads into the name: Copilot in Notebooks

# COPILOT FOR POWER BI IN MICROSOFT FABRIC FAQ

## What can Copilot for Power BI do vs not do?

Copilot for Power BI comprises several experiences. Each experience has its own expectations. The table below is illustrative, not exhaustive.

|  |  |  |
| --- | --- | --- |
| Experience | Example User Input | Expectation |
| Create Page | Create a page for sales | Copilot will create a page for a high-level topic. It creates generally relevant visuals to illustrate the topic, but may not create charts for all the detailed requests contained in the request. |
| Create Page | Create a page which charts for sales by date, sales by region, sales by account manager, and filter it to 2023. | The current Copilot is not designed to handle precise requests like creating specific charts or applying specific filters. |
| Create Page | Modify the page by removing the line chart and adding a map. | The current Copilot is not designed to change content on a page. |
| Narrative visual | Summarize the report | Copilot will create a summary across the entire report (with the exception of custom visuals, map visuals, and other AI visuals) and generate key highlights, lowlights, and notable trends in the data |
| Narrative visual | Summarize what is happening with bike sales in this report | So long as the prompt was valid (e.g., ‘bike’ and ‘sales’ are relevant in the data) The summary will be generated specific to the trends of bike sales across the report, or selected visual/page references |
| Narrative visual | Summarize what I should do to increase bike sales in the next quarter | The narrative visual is not designed to offer advice |

## What are the current limitations with Copilot for Power BI?

Copilot for Power BI has the following limitations for the first release.

* You can't tell it which kind of visual to create.
* Copilot can't modify the visuals after it has generated them.
* Copilot can't add filters or set slicers if you specify them in the prompts. For example, if you say: "Create a sales report for the last 30 days." Copilot can't interpret 30 days as a date filter.
* Copilot can't make layout changes. For example, if you tell Copilot to resize the visuals, or to align all the visuals perfectly, it won't work.
* Copilot can't understand complex intent. For example, suppose you frame a prompt like: "Generate a report to show incidents by team, incident type, owner of the incident, and do this for only 30 days." This prompt is complex, and Copilot will probably generate irrelevant visuals.
* Copilot doesn't produce a message for the skills that it doesn't support. For example, if you ask Copilot to edit or add a slicer, it won't complete the instruction successfully as mentioned above. Unfortunately, it will *not* give an error message either.

For the Narrative visual, here are the limitations:

* Authors: To author a copilot narratives visual in Service, the workspace needs to have a paid Dedicated Capacity. The workspace needs to be a Premium / F64 or higher.
* Viewers: to view a Copilot visual in the service, user will need read access to the workspace, not just the report.
* The visual text itself cannot be edited once generated. It can only be changed via prompts.
* The summary only takes into account data visualized on the report, not the entire dataset
* The accuracy of the public preview may be limited.
* Certain visuals are not supported
  + Map visuals
  + Key influencers
  + Previous smart narrative visual
  + Custom visuals

## How does Copilot for Power BI integrate with the other copilots, and more specifically with any Copilot in Fabric?

Copilot in Microsoft Fabric is a single experience (single point of administration, billing) that is available in Fabric experiences, like Copilot for Power BI. Copilot for Power BI is currently focused on Creating Reports and Summarizing data within reports.

## Will content created with the Public Preview version of Copilot carry over to the GA release?

Copilot for Power BI creates regular reports that are saved and shared like any other report. So all content will carry over. When using Narratives with Copilot visuals, you may observe changes in how prompts saved in the visual are interpreted by Copilot as we fix issues and release new features. It is important that authors understand the generative nature of Large Language Models and that their interpretation of the prompt and data can change. If authors are not ready to accept this behavior, they can instead use a template that will provide more fixed summary of data in the report.

## What will happen to the Smart Narratives visual? What about existing reports that use the Smart Narratives visual?

Smart Narratives is being upgraded to include **both** the current template style summaries and new Copilot generated summaries. The visual is renamed to be Narratives with Copilot. There will be no loss of functionality in this transition. The user can continue using the original visual or upgrade to the new experience.

## What will be the license requirements to use Copilot for Power BI?

To use any Microsoft Copilot in Fabric experience, including Copilot for Power BI, users need to have access to a Premium Capacity (P1 or higher) or a Microsoft Fabric Capacity (F64 or higher). For authoring scenarios, the user must have access to a workspace with edit permissions (Admin, Member, Contributor). For consumption scenarios, the content must be consumed from a workspace that has the required capacity. Beyond this, regular licensing rules apply.

## Will Premium per User carry any capabilities of Copilot for Power BI at any point?

The licensing we are introducing at Ignite requires Premium Capacity or Fabric Capacity. There is no support for PPU or Pro at this time.

## I loaded my semantic model, but it doesn't meet all the criteria listed in the data evaluation. What should I do?

The criteria listed in Evaluate your data for use with Copilot for Power BI (copilot-evaluate-data.md) is important because it helps you get a better quality report. As long as you meet seven of the eight points, including Consistency, the quality of the reports generated should be good, but we always urge customers to review AI output as it can make mistakes.

If your data doesn't meet that criteria, we recommend spending the time to bring it into compliance.

## I was given a Copilot URL, but I can't see the Copilot button. Why is that?

First, check with your admin to see if they have enabled Copilot.

Next, when you select a Copilot-enabled URL, you have to initially load the semantic model. When you've completed loading the semantic model, then you see the Copilot button. See the Create a report with Copilot for the Power BI service (copilot-create-report.md) article.

If you load a semantic model and still can't see the Copilot button, file a bug here: Copilot Bug Template.

## I selected the Copilot button, and it's stuck on Analyzing your semantic model

Depending upon the size of the semantic model, Copilot might take a while to analyze it. If you've waited longer than 15 minutes and you haven't received any errors, chances are that there is an internal server error.

Try restarting Copilot by closing the pane and selecting the Copilot button again.

## I loaded the semantic model and Copilot generated a summary, but I don't think that it's accurate

This inaccuracy could be because your semantic model has missing values. Because AI is generating the summary, it can try to fill the holes and fabricate data. If you can remove the rows with missing values, this situation could be avoided.

## I generated the report visuals, but I don’t like the quality of the visuals

We are continuously looking to improve the quality of the copilot generated visuals. For now, we recommend that you make the change by using the Power BI visualization tool.

## I generated a summary for the report page using Copilot, but I can't move the summary anywhere on the report page

Instead of creating a summary of the report page in the Copilot window, create a narrative visual on the report page and create your summary there. See Create a narrative summary visual with Copilot for Power BI (copilot-create-narrative.md) for details.

# COPILOT FOR DATA FACTORY IN MICROSOFT FABRIC FAQ

## What is Copilot for Data Factory?

Data Factory offers copilot experiences in Dataflow Gen2. It allows you to generate single or multiple steps in a query using natural language description. You can express transformations using natural language and the “M” language code generated by the Copilot. You can review every step and decide whether to keep or discard them.

## What can Copilot for Data Factory do vs not do?

[Do] The Copilot for Data Factory experience supports the complete Power Query formula language (M) when authoring Gen2 dataflows. Below are a few skills that are available within the Copilot for dataflow gen2.

|  |  |
| --- | --- |
| **Capabilities** | **Descriptions** |
| Create a new query using existing queries or sample | This skill enables users to create a new query when authoring, either by referencing existing query details or by creating a new query via text input.  Ex.   * “Create a new query that is a list of numbers from 1 to 100” * “Create a new query that calls the open weather.org API” |
| Add a step to an existing query | This skill enables users to add steps to an existing query either via a single step transformation or by performing multiple steps in a single input.  Ex.   * “Only keep customer rows that are in Canada” * “Get the total count of the countries by name and then limit the top 5 based on size” |
| Describe a query or a step in a query | This skill empowers users by providing a written description of what actions the query is performing for the complete script or a single step.  Ex.   * “Explain what the DimProduct query does” * “Describe the transformation in the Filter rows step” |
| Delete a query | This skill removes queries within the editor when unwanted results may occur. This action is irreversible.  Ex. “Remove the DimAccount query” |

## What are the current limitations with Copilot for Data Factory?

|  |  |
| --- | --- |
| **Limitations** | **Descriptions** |
| Cannot create connections | The ability to ask Copilot to retrieve data from a source is not currently supported.  **Note:**  While users can provide exact file addresses/paths or connection string details – if the model generates a valid query this should be considered a hallucination and not technically supported. |
| Cannot perform UI based activities | The ability to ask Copilot to perform UI based activities such as save and close, scheduling a refresh or setting configurations are not supported. The copilot only supports generating code for the query scripting (Power Query M formula) language |
| A query will need to be within the editor to perform adding new step skills | Users will need to first connect and import their data into the Power Query Online editor before they add new transformation steps.  This process can be achieved by using the current Get data flow for connecting and selecting tables in which to connect to. |

## I'm a Fabric user and I opened a dataflow Gen2 in Data Factory. Why can't I see Copilot for Power BI?

Copilot for Data Factory is only enabled in the Data Factory workload and when all licensing and tenant enabling criteria have been met.

# COPILOT FOR DATA ENGINEERING AND DATA SCIENCE IN MICROSOFT FABRIC FAQ

## What is Copilot for Data Engineering and Copilot for Data Science?

We are improving the productivity of data engineers and data scientists by introducing a public preview of Copilot for Data Engineering and Copilot for Data Science. When using a notebook, you can open up the Copilot pane and interact with your data and code with natural language, or leverage magic commands directly inside the notebook cells. And all the copilot experiences are Fabric aware, meaning it has context about your lakehouse data and more.

## What happened to Copilot for Notebooks?

Per guidance from Microsoft brand, we are naming Copilot features at the workload level, not at the feature level. Since notebooks are in both Data Engineering and Data Science workloads, Copilot for Notebooks has become Copilot for Data Engineering and Copilot for Data Science.

## What can Copilot for Data Engineering and Copilot for Data Science do?

|  |  |
| --- | --- |
| **Capabilities** | **Descriptions** |
| 1. Code Suggestions | Provides intelligent code completion suggestions by learning from the context within the codebase and the larger programming patterns in the field. |
| 2. Data Analysis and Visualization | Assists in crafting code for data analysis, creating visualizations using libraries like Matplotlib, Seaborn, or Plotly, and even helps in interpreting the outputs. |
| 3. Error Detection and Resolution | Capable of detecting syntax and logical errors in code. It also offers suggestions for bug fixes, error handling, and improving code reliability. |
| 4. Interactivity | Supports the creation of interactive environments, which can be helpful when writing code in notebooks that require testing snippets and viewing results in real-time. |
| 5. Magic Commands Integration | Assists in integrating with specialized shortcuts or 'magic commands' in Jupyter Notebooks that perform complex tasks with simple commands. |
| 6. Predictive Analysis | Aids in developing algorithms for predictive analytics by suggesting relevant models, tuning parameters, and evaluating model performance. |
| 7. Documentation | Guides on how to document code effectively, suggesting appropriate comments and explaining complex functions or classes to ensure that the codebase is understandable. |

## What are the current limitations with Copilot for Data Engineering and Data Science?

Limitations of Copilot for Data Engineering and Data Science include the below:

|  |  |
| --- | --- |
| **Limitations** | **Descriptions** |
| Cannot Execute Code | Copilot tools can suggest code and workflows, but a data engineer or scientist must review and manually execute the code, ensuring its accuracy and relevance. |
| Limited Interpretation of Ambiguity | The tools may struggle with incomplete or ambiguous queries where human judgment is required to interpret or clean the data. |
| No Data Synthesis | They cannot generate new datasets or simulate data for testing algorithms or models; they only work with existing data sources. |
| Edge Case Identification | Copilot tools may not effectively identify or handle edge cases in data analysis or pipeline creation due to the complexity and specificity of such scenarios. |

## Why can’t Copilot for DE/DS simply answer questions about the data without inputting code in the notebook or adding code into a dataframe?

Microsoft is committed to releasing Copilots in Fabric responsibly , therefore Copilot for DE/DS is currently limited to the ability of taking actions inside the memory of the notebook or acting on pre-set code blocks that are “invoked” by copilot as skills. Copilot cannot execute arbitrary code to provide answers on data. However, users can ask Copilot and obtain answers independently, with recommended code blocks and may potentially obtain information about a dataframe with summary statistics which are available to copilot.

## Why does Copilot for DE/DS not work with private links?

Today, Copilot for DE/DS requires the ability to obtain a package over the public internet. This means that private links connections will not work unless the fabric tenant is publicly addressable. We seek to change this as the feature stabilizes, and we will no longer require the user to load the prerequisite package.