# Creating custom Copilots for SharePoint Online with Microsoft Copilot Studio



# Creating Copilot Agents for SharePoint Online with Microsoft Copilot Studio



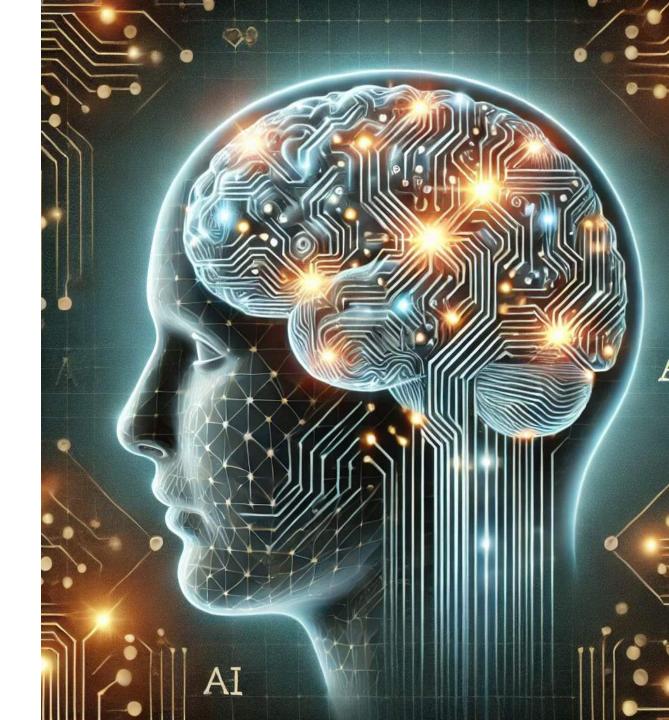
## What are the main challenges of Generative AI for businesses?

Ethical and Legal Concerns

Quality and Reliability

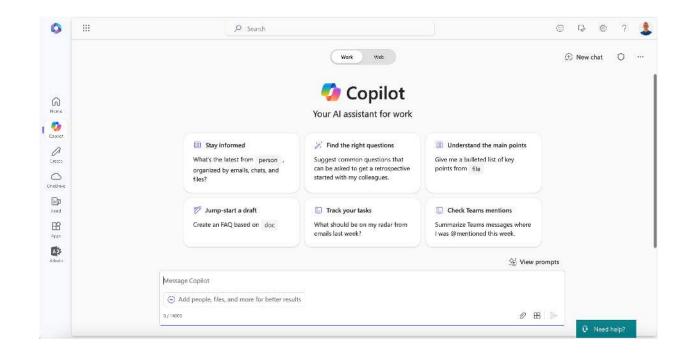
Security

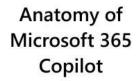
**Actual business context** 



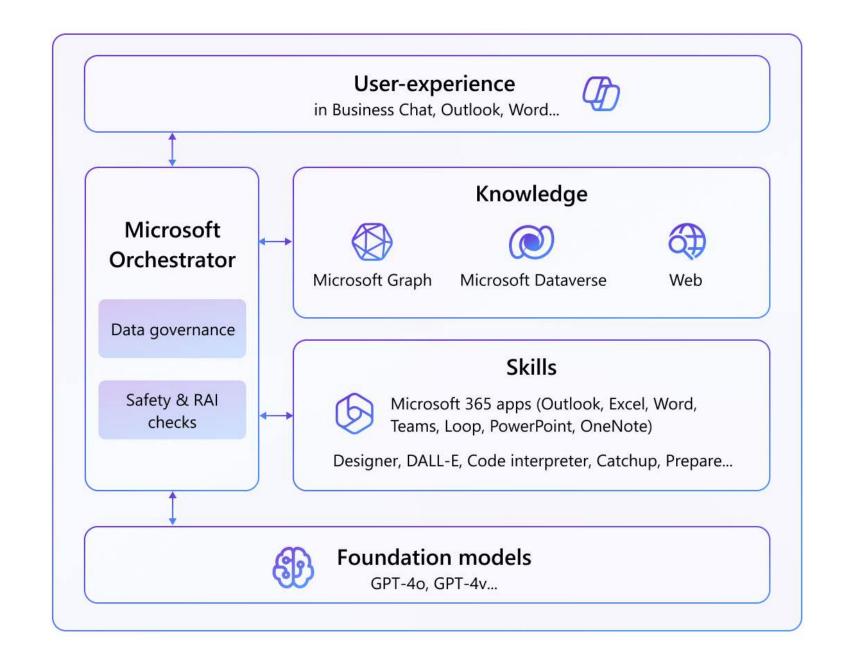
#### Microsoft 365 Copilot

- Microsoft 365 Copilot is an outstanding technology
  - Leverages Generative AI and Natural Language Processing
  - Uses your Microsoft 365 data as the main knowledge base
- Relies on e-mails, chats, documents, etc.
  - Handles data in a responsible, secure, and trustworthy manner
  - The knowledge base is the Semantic Index built on top of Microsoft Graph





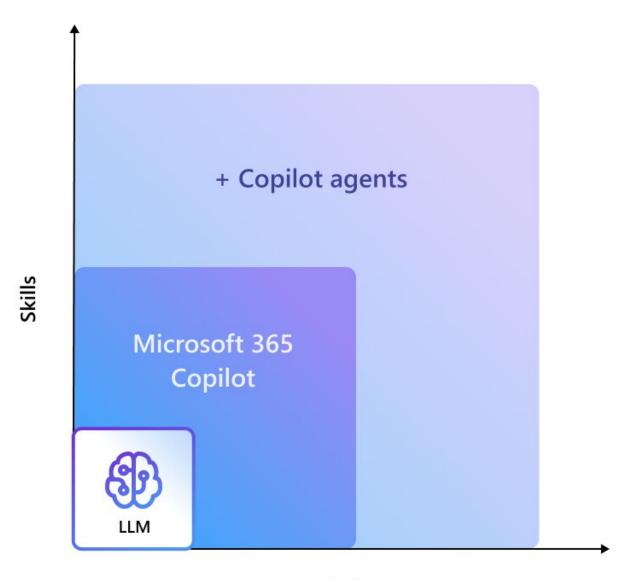




## What about other business data?

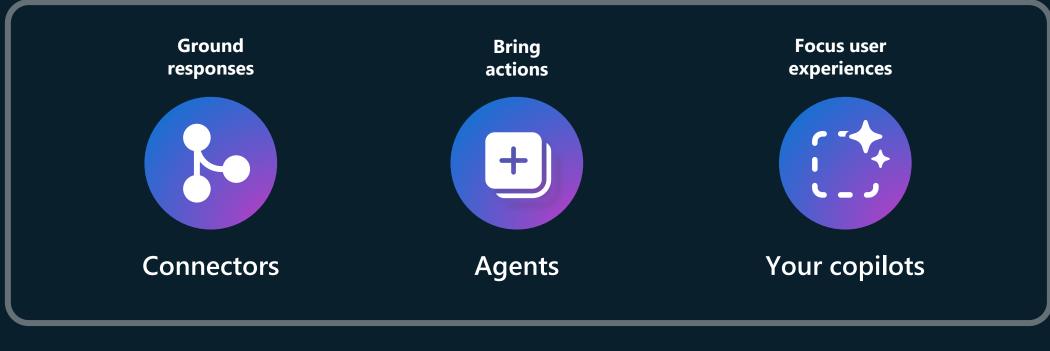
- Companies' data reside in multiple silos
  - · ERP, CRM, Orders Management System, etc.
- Microsoft 365 data and documents are fundamental
  - But are not the only data that businesses rely on ...
- We need a Copilot with knowledge that connects all those silos
  - Providing to the end users a unique, trustworthy, and secured knowledge base

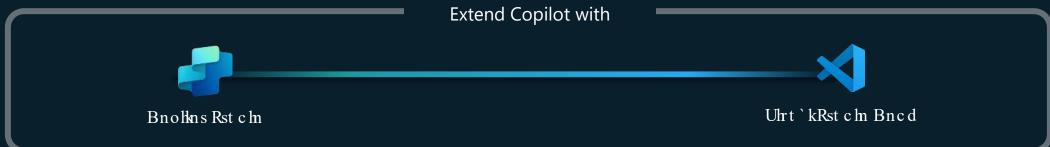




Knowledge

#### **Copilot Agents**





### Microsoft Copilot Studio

- No-code tool to create Copilot agents
  - Part of the Power Platform family of tools
  - · Built on top of the former Power Virtual Agents (PVA)
- Allows creating custom agents
  - · Can be hosted through many channels
    - · Teams, web site, mobile, Facebook, Slack, etc.
- Allows extending Microsoft 365 Copilot
  - · You can create custom plugins
- There are a web app and a Teams app
  - Here we'll focus on the web app

## DEMO

Overview of Microsoft Copilot Studio

#### What about SharePoint?

- Microsoft 365 Copilot can index content of documents
- At the moment does not index list items
- Nor the metadata of documents in libraries

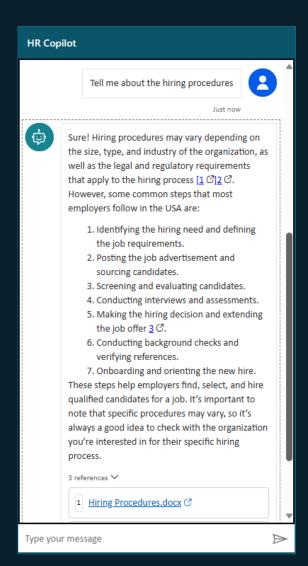
#### Create Copilot agents for SharePoint

Put your content to work quickly by creating and sharing custom copilots grounded on the exact data your team needs

Follows existing user access Grounded in your Any user can create, Edit and enhance with use, and share in a few clicks authoritative content permissions **Copilot Studio integration** Boulder Innovations SharePoint Search this site  $\Box$ 0 **Product Maintenance** Home Documents Pages Site contents Edit Confidential \ Internal only ☆ Not following English > (a) Edit in grid view Share Copy link Delete Create a Copilot agent ■ All Documents ∨ ① ✓ Home 0 Documents Documents MY 0 Modified By V Site contents Name V Modified ↓ ∨ Current Deployments Recycle bin Monday at 3:31 PM Mona Kane Parts & Inventory Monday at 3:31 PM Mona Kane Product Failure Reports Monday at 4:30 PM Service Manuals & Documentation Wednesday at 8:30 PM City ordinances checklist.docx Lee Gu July 27 PSE regional cost analysis.xslx Yesterday at 1:40 PM Adele Vance RMC 21.40.030 - EV Charging Stations.pdf August 20 Pradeep Gupta Rollout announcements.docx Yesterday at 2:10 PM

#### While waiting for Copilot Agents for SharePoint ...

- But what if you want a Copilot Agent now?
  - Working on a specific subset of your data/documents?
  - · Like an "HR Copilot", an "R&D Copilot", etc.
  - · With full security in place
    - · Users can only see what they are authorized to see!
- You can setup a SharePoint site collection
  - · Using Microsoft Copilot Studio (MCS) you can create a Copilot Agent to work with that site content only



## DEMO

Creating a Copilot Agent for SharePoint with Microsoft Copilot Studio

#### What are the supported content/files/length/size?

- · Are supported up to 4 SharePoint URLs
- Supported content
  - SharePoint pages (modern pages only)
  - Word documents (docx)
  - PowerPoint documents (pptx)
  - · PDF documents (pdf)
- Keep files short, best practices:
  - · Less than 20 pages
  - · Less than 15.000 words

#### **Security Context**

- · Custom copilots in Microsoft Teams rely on automatic authentication
- Copilot Studio queries SharePoint content with Copilot user's Microsoft Entra ID authentication
- · When a specific user asks a question to copilot
  - · The copilot only surfaces content for that specific user to access
- To publish the custom copilot on other channels you need custom authentication properly configured

### **DEMO**

Creating a Copilot Agent for SharePoint with Microsoft Copilot Studio and custom Authentication

#### Creation Steps Recap

- · Create a Copilot in Microsoft Copilot Studio
  - · Add SharePoint site as knowledge for the custom copilot
- Configure Security with "Manual" Authentication
  - Register Entra ID application
    - Configure Web authentication with redirect URL provided by MCS
    - · Create Shared Secret
    - · Grant delegated permissions
      - · Files.Read.All
      - · Sites.Read.All
      - · openid
      - · profile
- Publish your custom copilot

#### What about Security?

- You configure Delegated permissions for the application
  - The resulting permissions will be the intersection between user's and app's permissions
- Users will only be able to see and consume data that they are authorized to
- · Copilot Agent will only be able to consume data that both the user and the app have been authorized to
- Unfortunately Resource Specific Consent is not yet supported ...
- You can configure Single Sign On in Teams so that users will "simply use the Copilot Agent"



## **DEMO**

Configuring Single Sign On for your custom copilot

#### **Enable Single Sign-on**

- Configure Entra ID application for SSO
  - · Authentication: Web
  - · Client Secret
  - · API Permissions: openid profile Sites.Read.All Files.Read.All User.Read
    - · Admin grant of the permissions
  - Expose an API: api://botid-{ID-Of-Copilot-App}
    - · Custom scope
    - · Grant to Teams apps (web and desktop/mobile) with specific App IDs
- Configure custom Copilot Security
  - · Manual Authentication
- Publish
- Add Teams Channel (or any other channel of your choice)
  - Configure Security
- Publish the custom copilot

#### **Useful links**

- · https://learn.microsoft.com/en-us/microsoft-copilot-studio/nlu-generative-answers-sharepoint-onedrive
- · https://learn.microsoft.com/en-us/microsoft-copilot-studio/configuration-end-user-authentication
- · https://learn.microsoft.com/en-us/microsoft-copilot-studio/configuration-authentication-azure-ad
- · https://learn.microsoft.com/en-us/microsoft-copilot-studio/advanced-end-user-authentication?tabs=web
- https://learn.microsoft.com/en-us/microsoft-copilot-studio/configure-sso-teams
- https://github.com/microsoft/CopilotStudioSamples/tree/master/SharePointSSOComponent

#### About me

- · Solution Architect, Consultant, Trainer
  - · PiaSys.com based in the USA and in Italy
- More than 50 Microsoft certification exams passed
  - MCSM Charter SharePoint
  - · MVP M365 Development + M365 Apps & Services
  - · Microsoft 365 PnP Team Member
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- Feel free to reach out: <u>paolo@pialorsi.com</u>









## Thank you!