

# The hitchhiker's guide through the jungle of AI agents

David Schneider





"I want AI to do my laundry and dishes so that I can do art and writing, not for AI to do my art and writing so that I can do my laundry and dishes."

Author and videogame enthusiast **Joanna Maciejewska** said  
(although bathroom cleaning goes above and beyond)



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# David Schneider

- CTO of isolutions, Swiss Microsoft partner
- General Manager of isolutions Barcelona
- background as a SharePoint software developer 🧑💻
- passionate about technology and generative AI
- Ask me about: 📺 🧑🎓 🏒



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# AI Agents

Decompose complex tasks into smaller, manageable steps

in addition to user input

*"In the context of copilot, Microsoft has a **broader** understanding of agents."*

Specialized agents designed for a specific (small) task

to fully automate tasks on behalf of the user

Can communicate with **each other**

Act on behalf of a **company, department, or team** – not just a user

# What is Microsoft 365 Copilot



Microsoft 365  
Copilot

- **Personal Assistant** for **Employees** daily work
- Integrates in the Office Apps like Word, Teams, Outlook, PowerPoint, Excel, Loop, OneNote...
- It's very user centric and has access to the information you have access to...
- Uses heavily the Office Graph to «know» about you
- Can be extended with other sources of information
- 30 USD / user & months

# What's in for me?

Plan a meeting: Find a timeslot, move around another meeting and book a meeting room.

Update Line of Business systems like CRM, ERP, etc. based on incoming emails.

Book a trip including hotel, flight, etc. directly from Outlook.

Analyzing and proposing a solutions for a ticket or request.

Store receipts that arrive by email automatically in the expense tool.

Incoming messages in Outlook and Teams are analyzed, including prioritization and suggested replies

# Where is the difference?

**User Interface**

**Instructions**

**Responsible AI**

**Knowledge**

**Triggers and actions**

**Automation**

**Orchestrator**

**Foundation Models**



# Two types of agents (in context of M365 Copilot)

Feature	Declarative Agents	Custom Engine Agents
Runtime	Microsoft 365 Copilot, seamlessly integrates into Microsoft 365 apps like Teams, Word, and PowerPoint.	Operates as standalone Teams chatbots or apps with cross-platform capabilities.
Context	Always in the context of the current user	Internal (Authentication with EntraID) or External (B2B or B2C) or Autonomous Agents
Costs & Licensing Requirements	Microsoft 365 Copilot or (in Microsoft 365 Chat) pay per use	Copilot Studio and/or Azure services (subscription and pay per use)

# The 4 types of declarative agents

SharePoint  
Agents

Agent  
Builder

Copilot  
Studio

Teams Toolkit  
for VS Code



Microsoft 365  
Copilot

# Demo

Declarative Agents

# Agent Builder

# Demo



Copilot Studio



Copilot for Microsoft 365 Overview Agents

+ Add agent






Search library

Name	Created by	Last modified ↓	Status
 Pizza Waiter (Copilot Studio)	David Schneider	David Schneider 13 days ago	 Ready

# Declarative Agent based on a REST API

**PizzApi** 1.0 OAS 3.0  
<http://localhost:5222/swagger/v1/swagger.json>

## PizzaOrderItems

GET	/api/PizzaOrderItems	
POST	/api/PizzaOrderItems	
GET	/api/PizzaOrderItems/{id}	
PUT	/api/PizzaOrderItems/{id}	
DELETE	/api/PizzaOrderItems/{id}	

Please order a large pizza margherita for David, no extras

I added a new order for a pizza:

**Client:** David  
**Pizza:** Margherita  
**Dimensione:** 32 cm (large)  
**Extra Toppings:** no extra

What orders are waiting

These orders are in the queue:

**Client:** David, **Pizza:** Margherita  
**Client:** Eric, **Pizza:** Proscuitto

# Demo

Declarative Agent

# Declarative Agents

	SharePoint Agents	Agent Builder	Copilot Studio	Teams Toolkit for VS Code
Use Case	RAG with DocLib	RAG and conversational agents	Complex Logic	Integrate OpenAPIs and conversational agents
Knowledge	SharePoint DocLib	SharePoint, Bing, Graph Connectors, Dataverse, Bing	Files, Dataverse, Power Platform Connectors, Bing, SharePoint	APIs
Orchestration	No	No	No	Different API calls
Distribution	.agents file	ZIP file with manifest	Power Platform solution	Teams App

# Custom Engine Agents



# Difference to Declarative Agents

<b>User Interface</b>	Teams Bot, Website, B2B, B2C, or autonomous
<b>Instructions</b>	Full flexibility
<b>Responsible AI</b>	Take care about privacy and filters
<b>Knowledge</b>	RAG with Files, Bing Search, Microsoft Graph, Azure AI Search, Microsoft Fabric, etc.
<b>Action</b>	REST API, Power Platform Connectors
<b>Automation</b>	Workflows, Actions, Triggers
<b>Orchestrator</b>	Copilot Studio Topics, Semantic Kernel, Microsoft 365 Agents SDK, etc.
<b>Foundation Models</b>	Every model available in Azure AI Foundry (GPT, Llama, Deepseek, SLM)



Copilot Studio  
(formerly known  
as Power Virtual  
Agents)



Teams Toolkit  
(aka Teams AI  
Library)



Microsoft 365  
Agents SDK  
(formerly known  
as Bot  
Framework)



Azure AI  
Foundry with  
the new Azure  
AI Agent Service



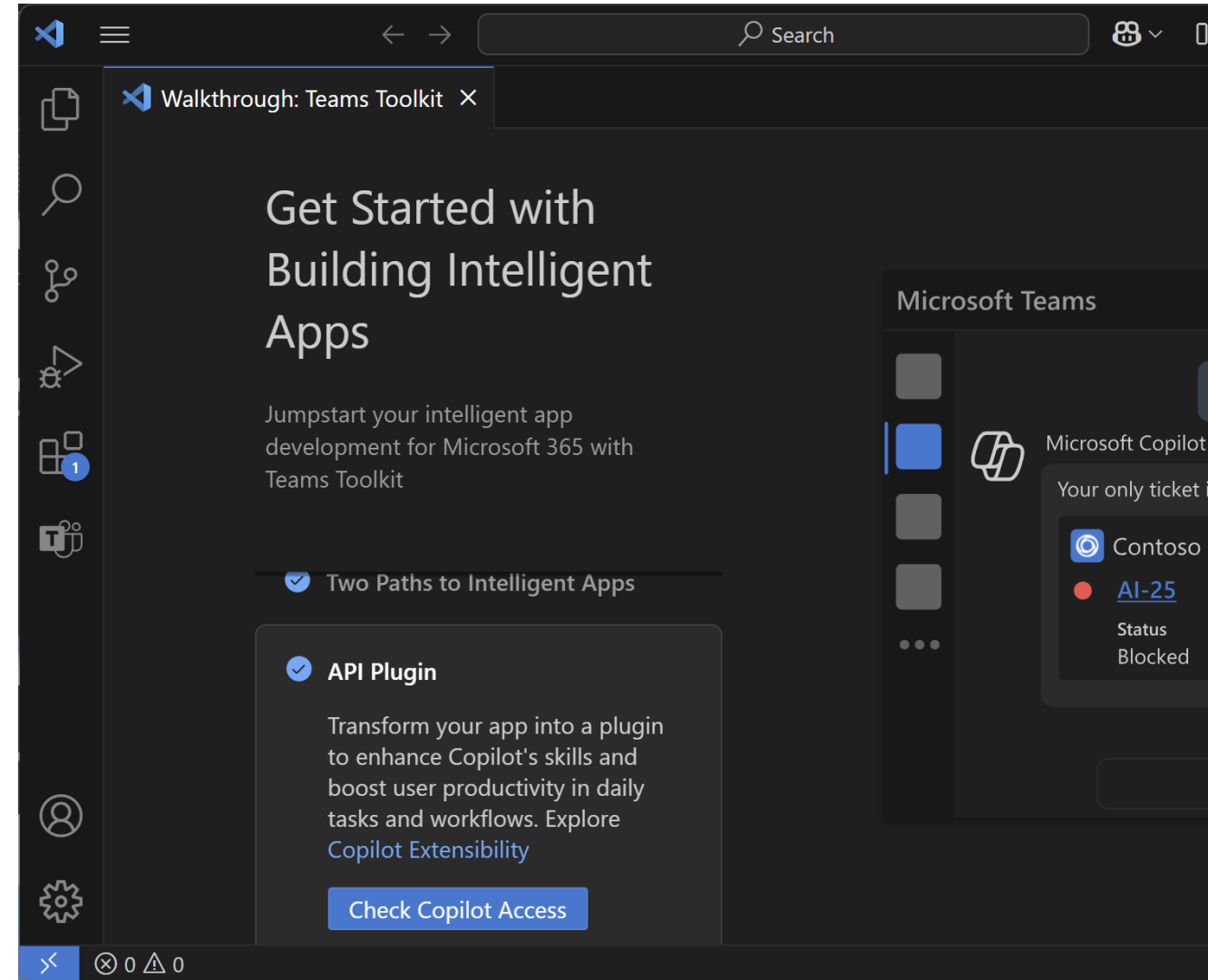
Custom solution  
with Semantic  
Kernel, Autogen  
or other

# Demo

Copilot Studio

# Teams Toolkit

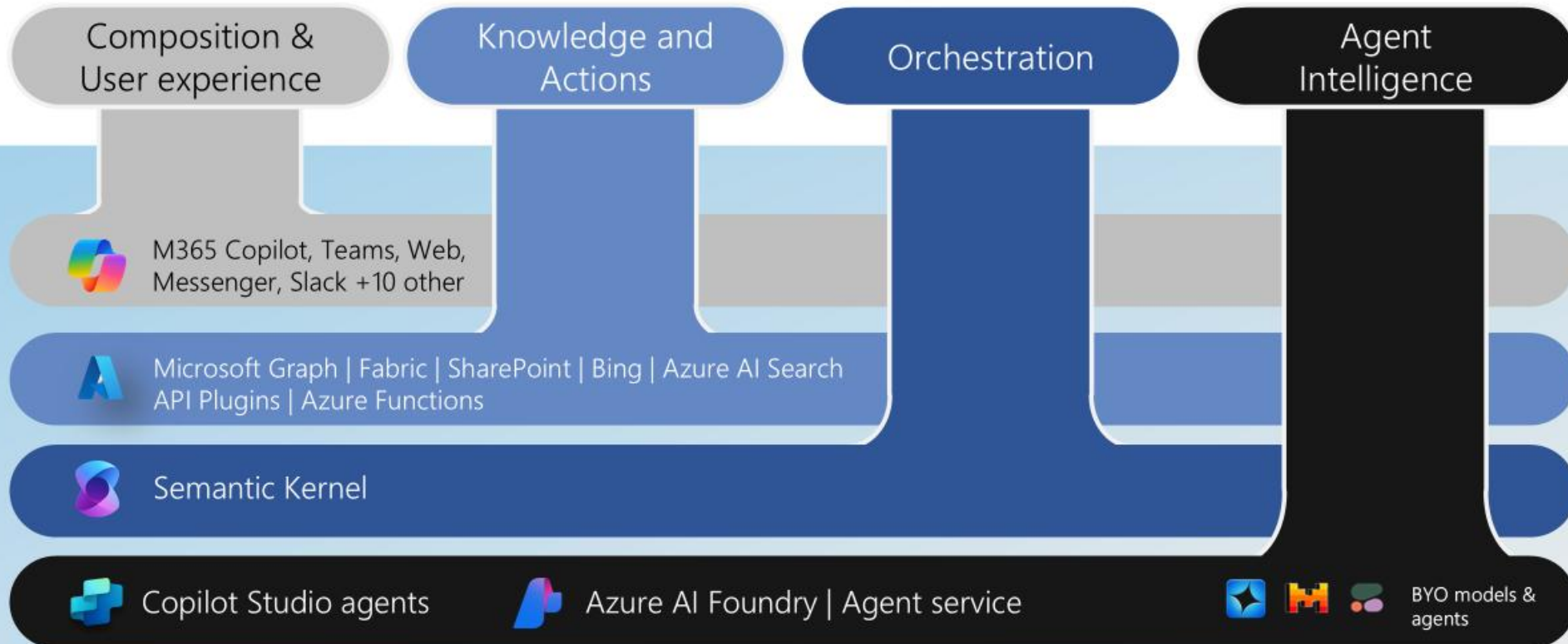
- Basic AI Chatbot
- Chat with your data
  - Azure AI Search
  - Custom API
  - Microsoft 365 Graph
- AI Agent
  - Build from scratch
  - Build with Assistant API
  - (hopefully more to come)



# Build on your terms with the AI services of your choice

Your agent, your way

## Microsoft 365 Agents SDK





# Azure AI Agent Service

## Code First

Use-case-agnostic platform for building, deploying, and managing AI agents as micro-services

## Data

Enterprise solution, Bing, SharePoint, Microsoft Fabric, Azure AI Search and other APIs

## Models

Azure Open AI (GPT-4.0, GPT-4, GPT-3.5)  
3rd party LLM (Llama 2, Mistral-Instruct, Mistral-larger-2027, Cohere Command R+)

## Integration

Copilot Studio is becoming more integrated with Azure AI Foundry, enabling more complex and custom scenarios.

# Conclusion

## Declarative Agents



SharePoint  
Agents

Agent Builder

Copilot Studio

Teams Toolkit  
for VS Code

## Custom Engine Agents



Flexibility  & Effort 

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**Thank you**