



# Monthly Tech Briefing

## DECEMBER 2023



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**[https://aka.ms/abbas \(new\)](https://aka.ms/abbas)**

# Microsoft

- [Microsoft Ignite 2023](#)
- [GitHub Universe 2024](#)
- [Microsoft and OpenAI Announcements](#)
- [Microsoft Tech Community Blog depot](#)
- [Microsoft Official Blog](#)
- [TechCommunity Events](#)
- [Microsoft Technical Documentation Hub](#)



Announcements and Tips

- [Microsoft Global Threat Monitor](#)
- [Microsoft Security Blog](#)
- [Microsoft Security Response Center](#)
- [Security, Compliance and Identity Blog](#)



Security and Compliance

- [Office Updates](#)
- [Teams Updates](#)
- [Viva Updates](#)
- [Power Platform and Dynamics](#)
- [Power Platform Templates](#)
- [GitHub Updates](#)
- [Developer Blogs and Showcase](#)
- [Office Developer Blog](#)



Microsoft 365 update information

- [Microsoft IT Showcase](#)
- [Technical Professional Training](#)
- [User Training and technology introductions](#)



Showcase of the month



New trends with Microsoft Technology

- [Industry Blogs](#)
- [Industry Cloud Announcements](#)
- [Azure Updates](#)
- [Microsoft Research Blog](#)
- [Microsoft Quantum Computing](#)



Product Lifecycles

Acquisitions and Announcements

- [Products Reaching End of Support in 2023 - 2025](#)
- [Companies and Technologies Acquired Since 2018](#)



# Experience AI transformation in action at Microsoft Ignite

In Seattle: November 14–17, 2023 PT | Online dates: November 15–16, 2023 PT

Discover the best of what's next in technology, problem-solve with experts, and make global connections to empower yourself to lead your organization.

[Register now](#)

Come to Seattle—you won't want to miss this  
November 14–17, 2023 PT

Join us for live, in-person keynotes, participate in interactive labs and demos, learn directly from Microsoft engineers and partners, and catch up with peers while making new connections. \$1,525 early-bird pricing is still available. Get the full experience with opt-in pre-day labs.

[Join us in Seattle >](#)

Sold out

Join online from anywhere  
November 15–16, 2023 PT

Connect with the global community online from wherever you are while learning from keynotes, breakout sessions, and taking part in live discussions at no cost.

[Join us online >](#)



(01100010 01101111 01101110)



# MICROSOFT IGNITE BOOK OF NEWS

November 15 - 17, 2023

## 1. Azure

- 1.1. Azure AI Services 
- 1.2. Azure Compute 
- 1.3. Azure Confidential Computing 
- 1.4. Azure Data 
- 1.5. Azure Infrastructure 
- 1.6. Azure Management & Operations 

## 3. Edge

- 3.1. Edge 

## 2. Developer

- 2.1. Developer Community 
- 2.2. Developer Tools & DevOps 

## 4. Microsoft 365

- 4.1. Microsoft 365 Apps & Services 
- 4.2. Microsoft Teams 
- 4.3. Microsoft Viva 

## 5. Microsoft Copilot

- 5.1. Azure Data 
- 5.2. Azure Management & Operations 
- 5.3. Bing 
- 5.4. Copilot for Sales and Copilot for Service 
- 5.5. Dynamics 365 
- 5.6. Edge 
- 5.7. Industry Cloud 
- 5.8. Microsoft Copilot for Microsoft 365 
- 5.9. Microsoft Viva 
- 5.10. Power Platform 
- 5.11. Security Copilot 

## 6. Power Platform

- 6.1. Power Platform 

## 7. Security

- 7.1. Defender 
- 7.2. Entra 
- 7.3. Purview 

## 8. Windows

- 8.1. Windows Commercial & Enterprise 
- 8.2. Windows Developer 



This year's themes



AI

A new frontier in developer creativity.



Security

Proactive security, powered by AI.



DevEx

Welcome to your flow state.

Watch on demand

# UNIVERSE 23

2024 Ticket Presale

October 29-30, 2024 - San Francisco, CA  
Tickets 60% off until November 17, 2023



# Microsoft Envision

## The Tour

Join us for an exclusive one-day, in-person only event where you'll learn how to lead your organization in the era of AI. Connect with other forward-thinking senior leaders and experts to gain valuable insights to propel your business forward.

**Register for a tour  
location today**



London, UK

October 18, 2023

[Register today >](#)



Mumbai, India

January 31, 2024

Registration details coming soon



Sydney, Australia

February 7, 2024

Registration details coming soon



Mexico City, Mexico

February 20, 2024

*Registration details coming soon*



Paris, France

March 12, 2024

*Registration details coming soon*



Tokyo, Japan

March 14, 2024

Registration details coming soon

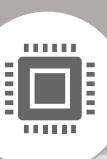
Oct 4, 2023 | Judson Althoff - Executive Vice President and Chief Commercial Officer

Microsoft Envision | The Tour: How to lead in the era of AI >

# Updates of Security and Compliance



# Monitoring Global Threats: Microsoft :: Threat Intelligence Blog



Select a region ▾

## Global threat activity

Countries or regions with the most malware encounters in the last 30 days

### Most affected industries

Reported enterprise malware encounters in the last 30 days

#### Retail and consumer goods

View all industries >

Devices with encounters:

918,892 (9.52%)



[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Cybercrime](#)

Dec 12 · 16 min read

#### Threat actors misuse OAuth applications to automate financially driven attacks >

Microsoft Threat Intelligence presents cases of threat actors misusing OAuth applications as automation tools in financially motivated attacks....

[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Mobile threats](#)

Nov 20 · 9 min read

#### Social engineering attacks lure Indian users to install Android banking trojans >

Microsoft has observed ongoing activity from mobile banking trojan campaigns targeting users in India with social media messages and malicious applications designed to impersonate legitimate organizations and steal users' information for financial fraud scams....

Microsoft Security Response Center

Retail and consumer goods ▾

#### Top threats:

HackTool:Win64/AutoKms  
HackTool:Win32/AutoKMS  
HackTool:Win32/AutoKMS!p2  
HackTool:Win32/Keygen  
Trojan:Win32/Wacatac.B!ml

## Worldwide

84,584,641 devices with encounters

#### Top threats:

TrojanDropper:Win32/Floxit!pz  
HackTool:Win32/AutoKMS  
Trojan:Win32/Wacatac.B!ml  
Trojan:Win32/Wacatac.H!ml  
PUA:Win32/Softcnapp

[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Threat actors](#)

Dec 7 · 23 min read

#### Star Blizzard increases sophistication and evasion in ongoing attacks >

Microsoft Threat Intelligence continues to track and disrupt malicious activity attributed to a Russian state-sponsored actor we track as Star Blizzard, who has improved their detection evasion capabilities since 2022 while remaining focused on email credential theft against targets....

[Research](#) [Threat intelligence](#) [Microsoft 365 Defender](#)

[Supply chain attacks](#)

Nov 22 · 7 min read

#### Diamond Sleet supply chain compromise distributes a modified CyberLink installer >

Microsoft has uncovered a supply chain attack by the threat actor Diamond Sleet (ZINC) involving a malicious variant of an application developed by CyberLink Corp. This malicious file is a legitimate CyberLink application installer that has been modified to include malicious code that downloads, decrypts, and loads a second-stage payload. The file, which was signed...



### Microsoft compliance offerings

Learn how Microsoft products and services help your organization meet regulatory compliance standards.

News · AI and machine learning · Microsoft Security Copilot · Dec 6 · 5 min read

## Microsoft Security Copilot drives new product integrations at Microsoft Ignite to empower security and IT teams >

Microsoft Security Copilot offers several use cases and embedded experiences—and early access participants are already sharing their perspectives on the solution. Find out for yourself by joining the program.

ISO 27001  
ISO 27002

Industry

GDPR Part 300  
APM + DNB (Netherlands)  
APRA (Australia)  
AM and ACPA (US)  
CGA  
CRTC 1.11 (US)  
DPP (UK)  
EPA (EU)

Best practices · Incident response · Microsoft Incident Response · Dec 4 · 3 min read

## Protecting credentials against social engineering: Cyberattack Series >

Our fourth installation in the Cyberattack Series examines a smishing and social engineering attack and outlines the steps organizations can take to help minimize the risk and prepare for the possibility.

Events · AI and machine learning · Microsoft Security Copilot · Nov 15 · 16 min read

## Microsoft unveils expansion of AI for security and security for AI at Microsoft Ignite >

The new era of AI is here. At Microsoft Ignite, we will be announcing new cybersecurity capabilities to help you thrive in this new age. Explore our big announcements.

News · AI and machine learning · Microsoft Purview · Dec 7 · 11 min read

## New Microsoft Purview features use AI to help secure and govern all your data >

Learn about the new Microsoft Purview features and capabilities announced at Microsoft Ignite 2023.

Research · Incident response · Microsoft Entra · Cloud threats · Dec 5 · 28 min read

## Microsoft Incident Response lessons on preventing cloud identity compromise >

In real-world customer engagements, Microsoft Incident Response (Microsoft IR) sees combinations of issues and misconfigurations that could lead to attacker access to customers' Microsoft Entra ID tenants. Effective protection of a customer's Entra ID tenant is less challenging than protecting an Active Directory deployment but does require governance and monitoring. Reducing risk and exposure of your most privileged accounts plays a critical role in preventing or detecting attempts at tenant-wide compromise.

News · Incident response · Microsoft Security Experts · Dec 11 · 4 min read

## New Microsoft Incident Response team guide shares best practices for security teams and leaders >

The Microsoft Incident Response team shares a downloadable, interactive, people-centric, guide to effective incident response.

News · Analyst reports · Microsoft Entra · Nov 21 · 4 min read

## Microsoft named a Leader in 2023 Gartner® Magic Quadrant™ for Access Management for the 7th year >

Microsoft recognized for the seventh straight year as a Leader in 2023 Gartner® Magic Quadrant™ for Access Management.



# Microsoft 365 update information

# 10 AI terms everyone should know

By Susanna Ray

The term "AI" has been used in computer science since the 1950s, but most people outside the industry didn't start talking about it until the end of 2022. That's because recent advances in machine learning led to big breakthroughs that are beginning to have a profound impact on nearly every aspect of our lives. We're here to help break down some of the buzzwords so you can better understand AI terms and be part of the global conversation.

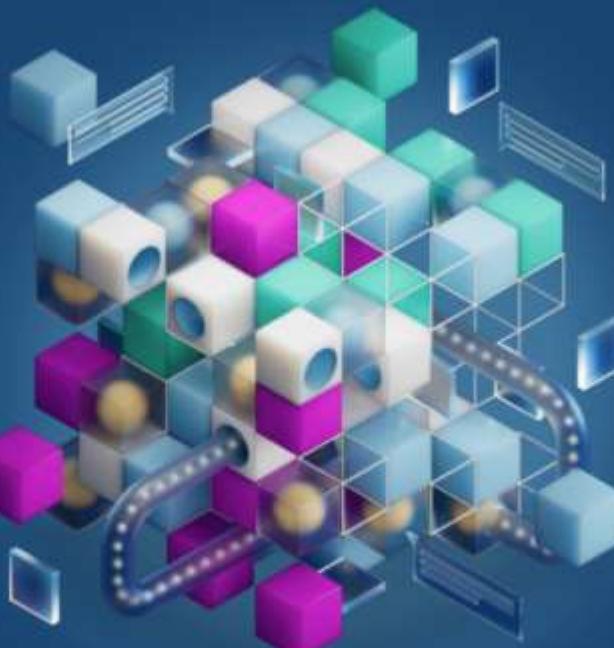
## 3. Large language models

Large language models, or LLMs, use machine learning techniques to help them process language so they can mimic the way humans communicate. They're based on neural networks, or NNs, which are computing systems inspired by the human brain — sort of like a bunch of nodes and connections that simulate neurons and synapses. They are trained on a massive amount of text to learn patterns and relationships in language that help them use human words. Their problem-solving capabilities can be used to translate languages, answer questions in the form of a chatbot, summarize text and even write stories, poems and computer code. They don't have thoughts or feelings, but sometimes they sound like they do, because they've learned patterns that help them respond the way a human might. They're often fine-tuned by developers using a process called reinforcement learning from human feedback (RLHF) to help them sound more conversational.



## 4. Generative AI

Generative AI leverages the power of large language models to make new things, not just regurgitate or provide information about existing things. It learns patterns and structures and then generates something that's similar but new. It can make things like pictures, music, text, videos and code. It can be used to create art, write stories, design products and even help doctors with administrative tasks. But it can also be used by bad actors to create fake news or pictures that look like photographs but aren't real, so tech companies are working on ways to **clearly identify** AI-generated content.



## 1. Artificial intelligence

Artificial intelligence is basically a super-smart computer system that can imitate humans in some ways, like comprehending what people say, making decisions, translating between languages, analyzing if something is negative or positive, and even learning from experience. It's artificial in that its intellect was created by humans using technology. Sometimes people say AI systems have digital brains, but they're not physical machines or robots — they're programs that run on computers. They work by putting a vast collection of data through algorithms, which are sets of instructions, to create models that can automate tasks that typically require human intelligence and time. Sometimes people specifically engage with an AI system — like asking Bing Chat for help with something — but more often the AI is happening in the background all around us, suggesting words as we type, recommending songs in playlists and providing more relevant information based on our preferences.

## 2. Machine learning

If artificial intelligence is the goal, machine learning is how we get there. It's a field of computer science, under the umbrella of AI, where people teach a computer system how to do something by training it to identify patterns and make predictions based on them. Data is run through algorithms over and over, with different input and feedback each time to help the system learn and improve during the training process — like practicing piano scales 10 million times in order to sight-read music going forward. It's especially helpful with problems that would otherwise be difficult or impossible to solve using traditional programming techniques, such as recognizing images and translating languages. It takes a huge amount of data, and that's something we've only been able to harness in recent years as more information has been digitized and as computer hardware has become faster, smaller, more powerful and better able to process all that information. That's why large language models that use machine learning — such as Bing Chat and ChatGPT — have suddenly arrived on the scene.

## 5. Hallucinations

Generative AI systems can create stories, poems and songs, but sometimes we want results to be based in truth. Since these systems can't tell the difference between what's real and fake, they can give inaccurate responses that developers refer to as hallucinations or confabulations — much like if someone saw what looked like the outlines of a face on the moon and began saying there was an actual man in the moon. Developers try to resolve these issues through "grounding," which is when they provide an AI system with additional information from a trusted source to improve accuracy about a specific topic. Sometimes a system's predictions are wrong, too, if a model doesn't have current information after it's trained.



# Copilot

Your everyday AI companion

A copilot is like a personal assistant that works alongside you in all sorts of digital applications, helping with things like writing, coding, summarizing and searching. It can also help you make decisions and understand lots of data. The recent development of large language models made copilots possible, allowing them to comprehend natural human language and provide answers, create content or take action as you work within different computer programs. Copilots are built with Responsible AI guardrails to make sure they're safe and secure and are used in a good way. Just like a copilot in an airplane, it's not in charge — you are — but it's a tool that can help you be more productive and efficient.

Sep 21, 2023 | [Yusuf Mehdi - Corporate Vice President & Consumer Chief Marketing Officer](#)

**Announcing Microsoft Copilot, your everyday AI companion >**

# Microsoft Copilot Studio

Customize Microsoft Copilot for Microsoft 365 or build your own copilot experiences.



## Customize Copilot for Microsoft 365

Enable greater control and efficiency by authoring responses to predictable scenarios within Copilot for Microsoft 365.



## Create custom copilots

Incorporate your data and plugins for engaging interactions in the places that matter the most.



## Use one connected platform

Copilot Studio is built on the foundations of leading conversational AI technologies including Power Virtual Agents, and is interoperable with Azure AI Studio and more.



## Documentation

See how to get started using Microsoft Copilot Studio in your organization.

## Copilot (Bing Chat)



interaction with  
web content

Copilots  
for Web

## M365 Copilot



Word, Outlook, Excel,  
PowerPoint, Teams

Copilot  
for Productivity

## Windows Copilot



interaction with OS,  
apps, and files

Copilot  
for Everyday

## Designer



digital creations

Copilot  
for Creativity

## Azure



Azure platform operations  
and optimizations

Copilot  
for Cloud

## Fabric Copilot



data analytics and  
business intelligence

Copilots  
for Analytics

## Power BI



Unlock your insights

## Security Copilot



threat detection,  
identification, and mitigation

Copilot  
for Security

## Dynamics Copilot



sales and customer  
support

Copilots  
for Business

## GitHub Copilot



code development

Copilot  
for Development

## Power Platform



creation of apps,  
and workflows

Copilot  
for Low/No Code  
Development

## Copilot Studio



creation of your agents

Extend your  
M365Copilot

## Custom Copilot



Create your  
own copilot

AI Platform

# Amplify human ingenuity with a copilot for everyone



Solution Area	Copilot	Availability	Info	Demo
Modern Work	Microsoft 365 Copilot (And associated copilot functionality)	Not available for Edu	<a href="#">LINK</a> <a href="#">LINK</a>	Outlook: <a href="#">LINK</a> Teams: <a href="#">LINK</a> PowerPoint: <a href="#">LINK</a> Word: <a href="#">LINK</a> Excel: <a href="#">LINK</a>
	Microsoft Copilot	Generally Available Dec 2023	<a href="#">LINK</a>	<a href="#">LINK</a>
	Windows Copilot	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Power Apps	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Power Automate	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Power Virtual Agents	Generally Available	<a href="#">LINK</a>	<a href="#">LINK</a>
Business Applications	Copilot in Power Pages	Private Preview		
	Microsoft Sales Copilot	Generally Available Q1 2024	<a href="#">LINK</a>	<a href="#">LINK</a> ; Guided: <a href="#">LINK</a>
	Microsoft Service Copilot	Generally Available Q1 2024	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Dynamics 365 Customer Service	Generally Available Dec 2023	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Dynamics 365 Field Service	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a> ; Guided: <a href="#">LINK</a>
	Copilot in Dynamics 365 Customer Insights	Public Preview	<a href="#">LINK</a>	Guided 1: <a href="#">LINK</a> ; Guided 2: <a href="#">LINK</a>
Customer Experience	Copilot in Dynamics 365 Business Central	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Dynamics 365 Supply Chain Center	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>

# Amplify human ingenuity with a copilot for everyone

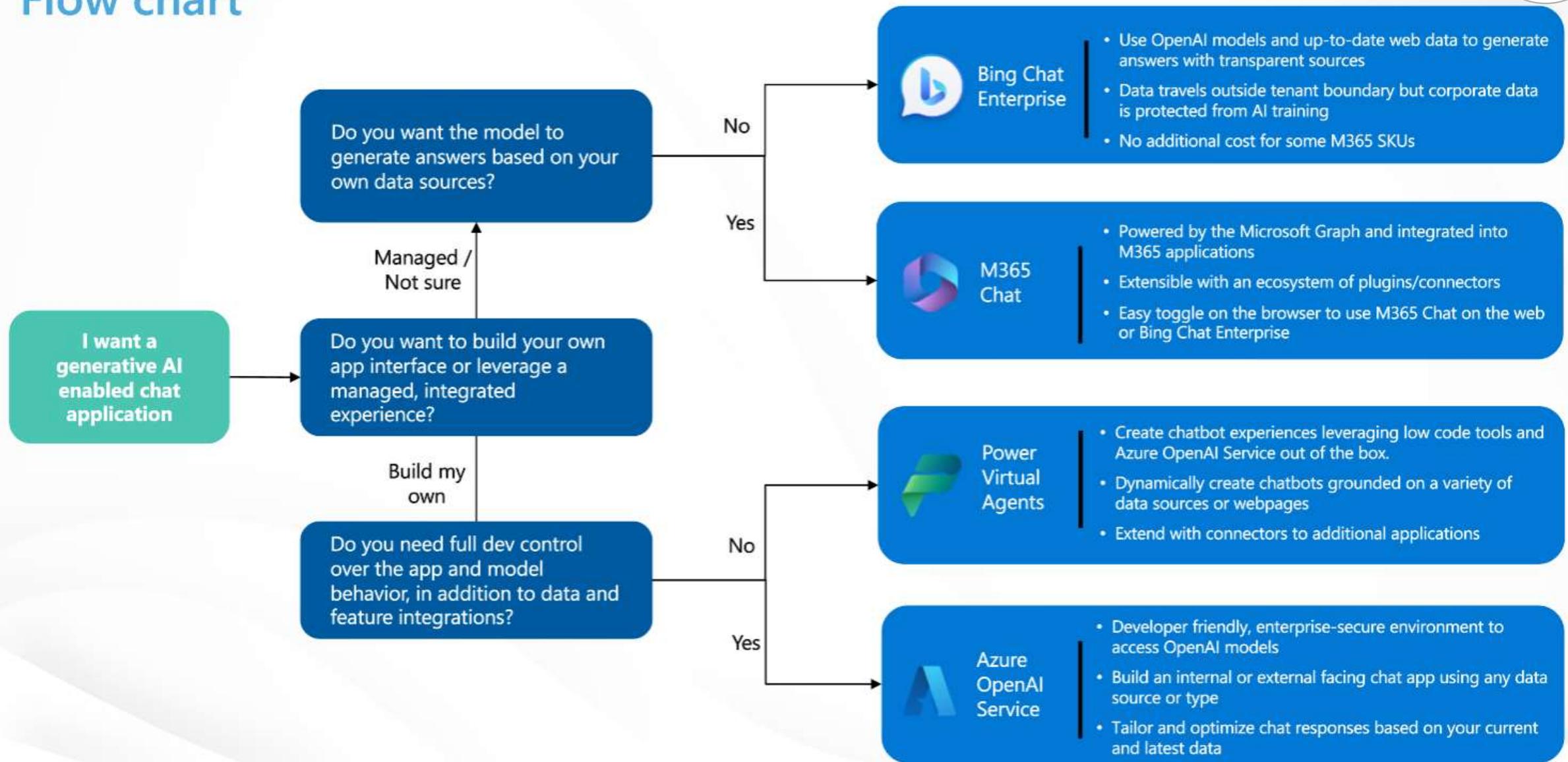


Solution Area	Copilot	Availability	Info	Demo
Digital & App Innovation	Microsoft CoPilot on Azure	Private Preview ( <a href="#">Sign Up</a> )	<a href="#">LINK</a>	
	GitHub Copilot	Generally Available	<a href="#">LINK</a>	<a href="#">LINK</a>
	GitHub Copilot X	Private Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
Data & AI	Copilot stack with Azure AI	Generally Available	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Power BI	Private Preview ( <a href="#">sign up</a> )	<a href="#">LINK</a>	<a href="#">LINK</a>
	Copilot in Microsoft Fabric	Public Preview	<a href="#">LINK</a>	<a href="#">LINK</a>
Security	Security Copilot	Private Preview	<a href="#">LINK</a>	<a href="#">LINK</a>



# Generative AI chat offerings with Microsoft

## Flow chart

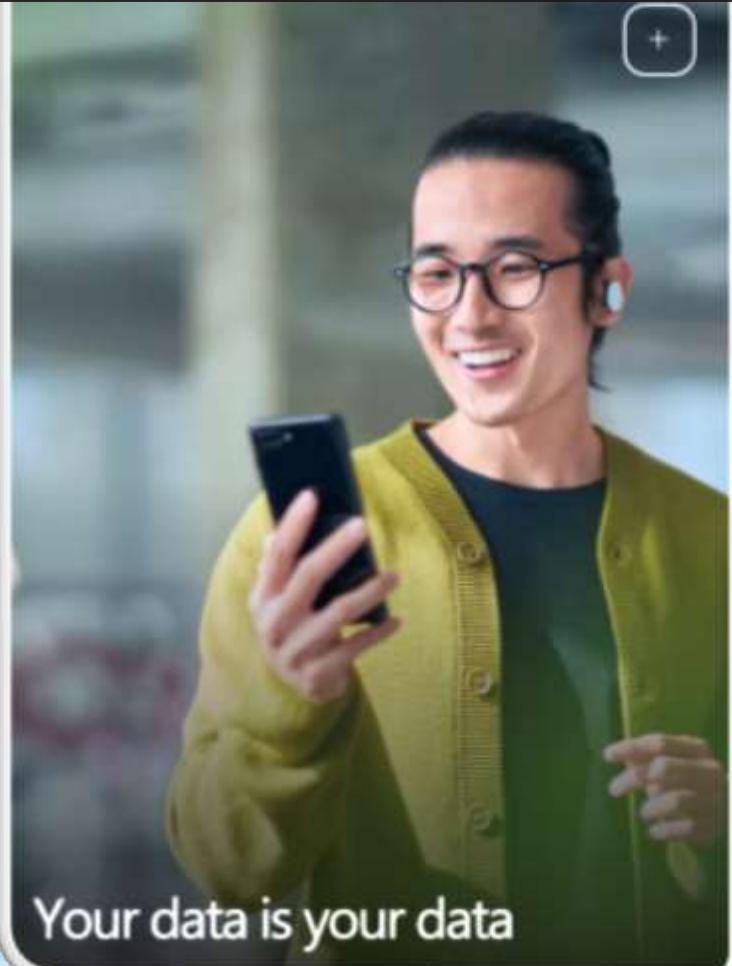


# Microsoft AI runs on Trust

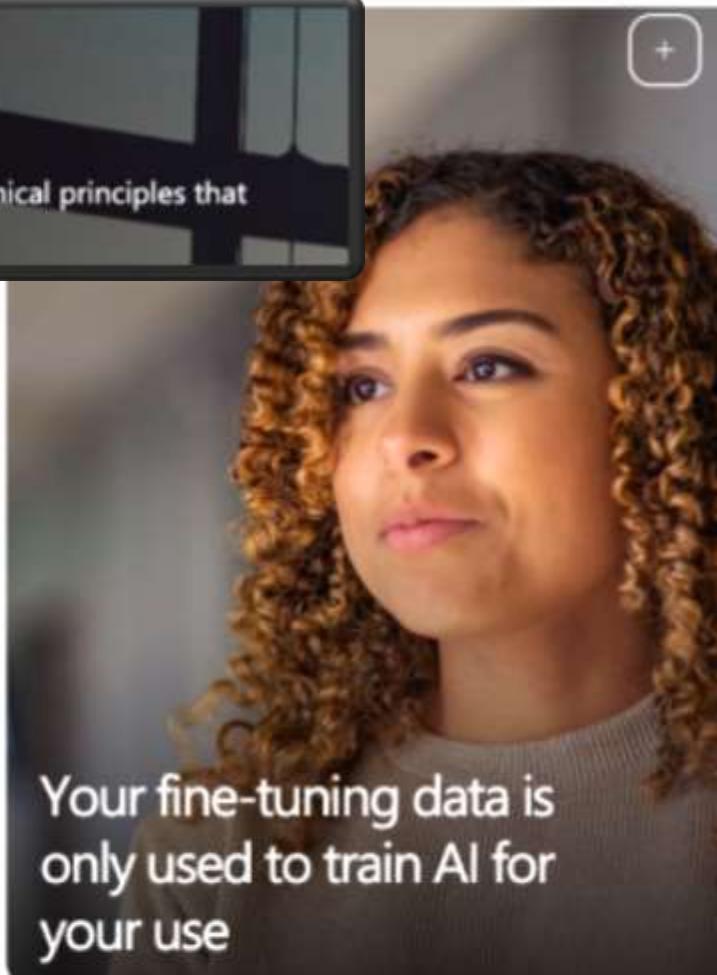


## Responsible AI

We are committed to the advancement of AI driven by ethical principles that put people first.



Your data is your data

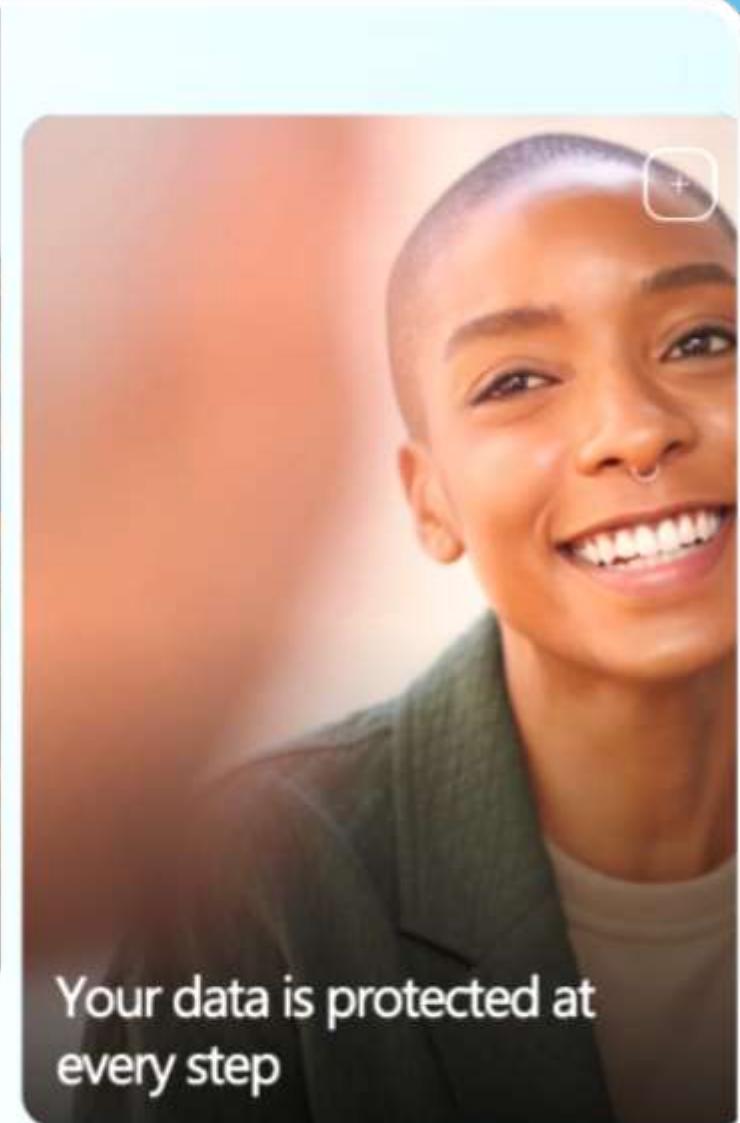


A close-up portrait of a woman with voluminous, curly, reddish-brown hair. She is looking slightly to her left with a neutral expression. The background is a soft, out-of-focus light color.

Your fine-tuning data is only used to train AI for your use

**Putting principles into practice at Microsoft**

We are committed to making sure AI systems are developed responsibly and in ways that warrant people's trust.



A close-up portrait of a person with short, dark hair, smiling broadly. They are wearing a dark green jacket over a light-colored shirt. The background is a warm, orange-toned gradient.

Your data is protected at every step

# What's New in Microsoft 365

[M365 Blog](#) and [Microsoft-365 Product Blog](#) :: Covering Office 365, Enterprise Mobility + Security and Windows

- ❖ [What's New in Microsoft Entra :: November 2023](#)
- ❖ [Plan for Windows 10 EOS with Windows 11, Windows 365](#)
- ❖ [Copilot coming to Windows 10](#)
- ❖ [Windows 365 GPU-enabled Cloud PC :: Public Preview](#)
- ❖ [Tailor Windows Update for Business reports with Power BI](#)
- ❖ [Windows IT Pro Blog](#)
- ❖ [Microsoft Entra \(Azure AD+\) Blog](#)
- ❖ [Microsoft OneDrive Blog](#)
- ❖ [Microsoft SharePoint Blog](#)

10 min read

## Introducing Microsoft Copilot Studio and new features in Copilot for Microsoft 365 >

At Microsoft Ignite 2023, we are announcing new innovations across Microsoft Copilot—one copilot experience that runs across all our surfaces, understanding your context on the web, on your PC, and at work to bring the right skills to you when you need them across work and life.

### Copilot in Microsoft 365 – Support Tips

[BrianStoner](#) on Nov 29 2023 02:00 PM

The Microsoft 365 Commercial Support team provides some useful tips on getting the most out of Copilot features

### What's new for enterprise customers in the Microsoft 365...

[James\\_Bell](#) on Dec 01 2023 09:56 AM

The Microsoft 365 app now provides a tailored, immersive experience that helps you do more with content across web, mobi...



## Microsoft 365 roadmap

Get the latest updates on our best-in-class productivity apps and intelligent cloud services. Rethink productivity, streamline business processes, and protect your business with Microsoft 365.

[Using this roadmap](#)

[Roadmap improvements](#)

583 In development

Updates that are currently in development and testing

185 Rolling out

Updates that are beginning to roll out and are not yet available to all applicable customers

1040 Launched

Fully released updates that are now generally available for applicable customers

		Sort by Rollout date	Next to oldest
	Microsoft 365 admin center: Adoption Score AI assistance category	Rollout Start: March 2024	Preview Available: November 2023; Rollout Start: March 2024
	SharePoint: Microsoft 365 Archive for Sites	Rollout Start: March 2024	Preview Available: September 2023; Rollout Start: February 2024
	Microsoft Purview compliance portal: Insider Risk Management - Sequence detections for obfuscation involving excluded events	Rollout Start: December 2023	Preview Available: November 2023; Rollout Start: December 2023
	Microsoft Teams: Unified fun picker	Rollout Start: December 2023	Preview Available: November 2023; Rollout Start: December 2023
	Microsoft Viva: Topic engagement analytics	Rollout Start: December 2023	Preview Available: November 2023; Rollout Start: December 2023
	Microsoft Viva: Topics engagement analytics in Topic center	Rollout Start: December 2023	Preview Available: November 2023; Rollout Start: December 2023
	Microsoft Teams: Simplified compose box	Rollout Start: December 2023	Preview Available: October 2023; Rollout Start: December 2023
	Microsoft OneDrive: Open in App	Rollout Start: December 2023	Preview Available: October 2023; Rollout Start: December 2023
	Microsoft Purview compliance portal: Information Protection - Exact Data Match to support multi-token corroborative evidence	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: Walkie Talkie: automatically listen to multiple channels	Rollout Start: December 2023	Preview Available: December 2023
	Outlook: Modern Translation in Outlook on the Web	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Viva: Viva Goals – Customizable goal terms	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: Manage Microsoft Surface Hub as a Teams Rooms on Windows device	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: Synced updates for Microsoft Teams Rooms on Android devices and paired consoles	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Stream: Add a survey, poll, or quiz to a video at specific times	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: Teams Phone and Teams Rooms licenses in device store	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: Domain-specific search	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: New Teams meeting templates added to Outlook Teams add-in	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Teams: School Connection for parents in Microsoft Teams (mobile)	Rollout Start: December 2023	Preview Available: December 2023
	Microsoft Search: Microsoft Graph connector results merged inline in "All" vertical for GCC and GCCH	Rollout Start: December 2023	Preview Available: December 2023



# Microsoft Teams Blog:



## Extending Microsoft Copilot for Microsoft 365: A guide for...

Sriini.Raghavan on Nov 15 2023 08:00 AM

This year, the dominant theme for technology companies has been working to enable AI. Microsoft's focus has been buildin...

### New for This Month:

- [Copilot for Teams :: Generally Available](#)
- [Copilot in the Calls app: post-call experience](#)
- [Copilot in Collaborative notes](#)
- [AI in Teams: Voice isolation](#)
- [Decorate your background](#)
- [Microsoft Mesh: Immersive spaces in Teams](#)
- [Customize immersive spaces in Microsoft Mesh](#)
- [Priority Account Chat controls](#)

### Teams Premium :: New Dedicated Blog

- [Intelligent Control](#)
- [Increased Protection](#)
- [More Engaging](#)
- [Advanced Town Hall meetings](#)
- [Advanced Tenant Analytics](#)

### Platform:

- [Auto install approved apps](#)



## What's New in Microsoft Teams | Microsoft Ignite 2023

### What's New in Microsoft Teams | Microsoft Ignite 2023

Steve\_Stein on Nov 15 2023 08:00 AM

Welcome to the November 2023 Special Edition of What's New in Teams! We are publishing this month's edition early to cov...

### Chat and Collaboration:

- [New Keyboard shortcuts in Teams](#)
- [Loop components in channels](#)
- [Simplified notifications](#)
- [Enhancements to code blocks](#)
- [Customize default reactions](#)
- [Chat embedded in Microsoft Edge browser](#)

### Teams Phone, Rooms, and Devices:

- [Expansion of Speaker Recognition](#)
- [Bring your own device \(BYOD\)](#)
- [Management of BYOD \(Bring your own device\) meeting spaces with Teams Rooms Pro Management](#)
- [One Time Passcode \(OTP\) for simplified setup of Teams Rooms on Windows](#)
- [Introducing two brand-new certified for Microsoft Teams UC peripherals from MAXHUB](#)
- [Poly Studio Kits for Microsoft Teams Rooms on Windows](#)
- [New Microsoft Teams Personal Devices](#)

**Unlocking Efficient and Secure Collaboration with Advanced...**

Izzychun on Nov 15 2023 08:05 AM

Today, we're thrilled to introduce the first set of a new type of capability in Teams Premium—Advanced Collaboration Too...

### Frontline Workers:

- All Microsoft 365 F3 Licenses include Microsoft Copilot
- Microsoft 365 Copilot Shifts plugin
- Dynamics 365 Field Service Copilot in Outlook and Teams
- New Entra ID shared device mode support on iOS and Android
- Walkie Talkie in Teams: listen to multiple channels

### Collaborative Apps:

- [Ramp](#)
- [TaskHuman](#)
- [BetterUp](#)
- [Snapchat](#)

### Mobile:

- Quickly capture content in Teams mobile

# Microsoft Viva: & Viva Blog:

## The employee experience platform for the new world of work



Microsoft Viva Connections



Microsoft Viva Engage



[Viva Amplify](#)



Microsoft Viva Insights



[Viva Pulse](#)



[Viva Glint](#)



Microsoft Viva Goals



Microsoft Viva Learning



Microsoft Viva Topics



Microsoft Viva Sales

Employee  
Communication  
& Communities

Workplace Analytics  
& Feedback

Goal Setting &  
Management

Learning and  
Knowledge Management

Customer &  
Sales Insights



### [Introducing Skills in Microsoft Viva, a new AI-powered service to grow and manage...](#)

We are thrilled to introduce Skills in Viva, an innovative AI-driven service that assists organizations in comprehending and cultivating their workforce skills, as well as the general availability of Viva Amplify, a multichannel...



### [Microsoft Viva Glint Monthly Newsletter – December 2023](#)

Explore the December newsletter for Microsoft Viva Glint!

A screenshot of a Microsoft Viva blog post. The title is "Getting Started with Viva Amplify". It features two speakers: Michael Holste, Senior Product Marketing Manager, Viva Amplify, Microsoft, and Liz Sundet, Senior Program Manager, Viva Amplify, Microsoft. The event date is listed as December 7, 2023, 10:00am PDT. A yellow border surrounds the top portion of the post.

### [Getting Started with Viva Amplify Event](#)

Learn about the upcoming Getting Started with Viva Amplify E...

A screenshot of a Microsoft Viva blog post. The title is "Viva Engage Product Roadmap – catch the highlights, Q&amp;A...". It features a photo of a woman with braided hair, wearing a red hoodie and headphones, smiling while looking at a laptop screen. The event date is listed as November 28, 2023, 8:00am PT.

### [Viva Engage Product Roadmap – catch the highlights, Q&A...](#)

The Viva Engage roadmap recording and presentation highlights spe...

# Microsoft Power Platform :: Power Platform Blog



## Microsoft Power Platform

The low code platform that spans Microsoft 365, Azure, Dynamics 365, and standalone apps.



**Power BI**  
Business analytics



**Power Apps**  
App development



**Power Automate**  
Process automation



**Power Virtual Agents**  
Intelligent virtual agents



**Power Pages**  
External-facing websites



**Data connectors**



**AI Builder**



**Dataverse**



A callout diagram showing the integration points between various Microsoft Power Platform products:

- Power BI, Power Automate, Power Virtual Agents, and Power Apps are shown at the top level.
- Power BI, Power Automate, and Power Virtual Agents are connected to a central node labeled "Data connectors".
- Power BI, Power Automate, and Power Virtual Agents are also connected to a central node labeled "AI Builder".
- Power BI, Power Automate, and Power Virtual Agents are connected to a central node labeled "Dataverse".
- Power Pages is shown separately on the right side.

Visit our product blogs

- Power BI
- Power Automate
- Power Virtual Agents
- Power Apps
- Power Pages

# Microsoft Power Platform :: Power Platform Blog



November 15, 2023 · 6 min read

## Accelerate Copilot extensibility and Power Apps creation with Microsoft Dataverse >

At Microsoft Ignite 2023, witness firsthand how Power Platform and Microsoft Dataverse are activating the strength of your enterprise data using AI.

## Empower Power BI users with Microsoft Fabric and Copilot

November 15, 2023 by Kim Manis

We are thrilled to announce the general availability of Microsoft Fabric and the public preview of Copilot in Microsoft Fabric, including the experience for Power BI. With the launch of these next-generation analytics tools, you can empower your data teams to more easily scale to meet the demand of the business. You can create a well-orchestrated data estate that minimizes data fragmentation and makes it easy for business users to find continually up-to-date, accurate data. And it even enables business users to explore and consume governed data, helping them answer questions on their own.

[READ MORE](#)

## New Microsoft Copilot Studio implementation guide



[Henry Jammes](#), Principal Program Manager, Power CAT, Tuesday, December 5, 2023

The Copilot Studio implementation guide provides a framework to do a 360-degree review of your project. It highlights potential risks and gaps, aims at aligning the project with the product roadmap, and shares guidance, best practices and reference architecture examples.

[» Read more](#)

## Microsoft Power Virtual Agents, now part of Microsoft Copilot Studio



[Omar Aftab](#), Vice President, Conversational AI, Wednesday, November 15, 2023

We're delighted to share that as of November 15th, Power Virtual Agents capabilities are now part of Microsoft's new product, Microsoft Copilot Studio, Microsoft's conversational AI platform to customize Microsoft Copilot and to build your own custom copilots. As a result, the Power Virtual Agents name will no longer be used.

Dec 5 · 8 min read

## Accelerate developer productivity with Microsoft Power Platform >

Microsoft Power Platform developer tools are enabling professional developers to create more effective business solutions using Power Platform. Learn more.

[READ MORE](#)

## ArcGIS, Meisterplan and Microsoft Translator among 60+ new connectors, 50+ connector updates launched to accelerate value from low code

[Shefaali Patankar](#), Program Manager 2, Thursday, November 16, 2023

ArcGIS, Meisterplan and Microsoft Translator among 60+ New Connectors, 50+ Connector Updates launched to get more value out of the box with Power Platform.

[» Read more](#)

# Power Platform and Dynamics

Roadmaps and Release plans:



[News and product updates](#) [Dynamics 365 Supply Chain Management](#)

[IT Professionals](#) • 6 min read

## Microsoft Copilot brings generative help and guidance into Dynamics 365 Supply Chain Management

By [Anupam Sharma](#), Principal Product Manager

[Christian Abein](#), Product Manager

[Denis Conway](#), Director of Supply Chain Growth

[IT Professionals](#)

[News and product updates](#)

[Dynamics 365 Customer Service](#)

• Nov 15 • 4 min read

## Announcing Microsoft Copilot for Service >

In this blog, we will discuss the opportunity for organizations to delight their customers with generative AI-powered service experiences and explain some of the new innovations we're announcing to make it a reality.

[Business Decision Makers](#)

[Analyst reports](#)

[Dynamics 365 Field Service](#)

• Nov 28 • 4 min read

## Copilot in Dynamics 365 Field Service helps take field support to the next level >

One of the most exciting things about the introduction of AI into tools people use every day to do their jobs is the way AI can help revolutionize the way people work. Especially at the frontlines of business, AI provides organizations with innovative and personalized ways to serve customers.

[IT Professionals](#)

[News and product updates](#)

[Dynamics 365 Supply Chain Management](#)

• Nov 23 • 8 min read

## Transforming Supply Chains: Exploring Advanced AI-Powered Demand Forecasting and Demand Planning in Dynamics 365 Supply Chain Management >

In the ever-changing landscape of contemporary business, effective supply chain management is paramount. Central to this complex system is the critical process of demand planning and forecasting, which profoundly impacts a company's capacity to fulfill customer requirements, optimize inventory, and maintain a competitive edge. This article explores the significance of demand forecasting and how Microsoft seamlessly incorporates it into its new demand planning in Dynamics 365 Supply Chain Management.

[IT Professionals](#) • Nov 22 • 4 min read

## Deliver higher-impact experiences with better data quality and configuration with Copilot >

In today's data-driven world, businesses rely on customer data to fuel their marketing strategies.

They need to access, analyze, and act on this data to power personalized experiences that drive return on marketing investments.

[Business Decision Makers](#) • Nov 15 • 7 min read

## Introducing new Copilot experiences to boost productivity and elevate customer experiences across the organization >

Microsoft Copilot presents an opportunity to reimagine the way we work—turning natural language into the most powerful productivity tool on the planet. With AI, organizations can unearth value in the mountain of data across productivity tools like Microsoft 365 and business applications.

# Developer and GitHub

## GitHub Blog and Changelog

- Upcoming Changes to Assignment Repositories and Starter Code in GitHub Classroom
- Dependabot Grouped Security Updates :: Public Beta
- Updates to repository pages
- GitHub Enterprise Server 3.11 :: Generally Available
- Secret scanning now detects new secrets in GitHub Discussion content
- Codespaces Billing Report Improvements
- GitHub Copilot – November 30th Update
- Upcoming changes to repository insights
- Enable or disable secret scanning validity checks with the REST API
- CodeQL 2.15.3 supports Swift 5.9, improves C# analysis speed



## Microsoft Developer Blogs:

- Migrating from the Sequential and Stepwise planners to the new Handlebars and Stepwise planner
- Power Platform Command Line Interface: October/November Updates
- Python in Visual Studio Code - December 2023 Release
- Wham! Authentication broker support lands in the Azure Identity libraries.
- Power Platform CLI - Simplifying authentication profiles

### Addressing post-quantum cryptography with CodeQL

Learn how researchers and security experts at GitHub, Microsoft, and Santander came together to address the challenges presented by the post-quantum cryptography world.

Walker Chabbott December 5, 2023

### Introducing AI-powered application security testing with GitHub Advanced Security

Learn about how GitHub Advanced Security's new AI-powered features can help you secure your code more efficiently than ever.

Asha Chakrabarty & Laura Paine November 8, 2023

### How we're experimenting with LLMs to evolve GitHub Copilot

Learn how we're experimenting with generative AI models to extend GitHub Copilot across the developer lifecycle.

Sara Verdi December 6, 2023



### From macOS runners to secure deployments, what's new from GitHub Actions

Read a roundup of the exciting, new innovation coming from GitHub Actions.

Rachel Siemens December 7, 2023

### The ultimate gifts for the developer in your life this holiday season

If you're on the hunt for the perfect holiday gifts for the developer who has it all, look no further. We've curated a list of 10 must-have items (plus a few more) that strike the perfect balance between practicality and style.



Lavinia Sfetcu & Chrissy Nasl  
December 4, 2023

### Cueing up a calculator: an introduction to exploit development on Linux

Using CVE-2023-43641 as an example, I'll explain how to develop an exploit for a memory corruption vulnerability on Linux. The exploit has to bypass several mitigations to achieve code execution.

Kevin Backhouse December 6, 2023



# Office Developer Blogs and Microsoft 365 Dev Center



The future of collaboration and AI: Opportunities for partners in the Microsoft Teams AI ecosystem

## The future of collaboration and AI: Opportunities for partners in the Microsoft Teams AI ecosystem

December 7, 2023

Joey Glocke, Carter Gilliam

Integrate your app with Copilot for Microsoft 365 and build your own copilot with the Teams AI Library.

Updates to how to install and use Add-ins and apps in Outlook for Windows and Outlook on the web

## Updates to how to install and use Add-ins and apps in Outlook for Windows and Outlook on the web

November 29, 2023

Kate Everitt

We're announcing changes to how Office Add-ins and apps are installed, accessed, and sideloaded to Outlook for Windows and Outlook for Web.

Now available Microsoft Graph CLI v1.0.0

## Microsoft Graph CLI v1.0.0 is now generally available

November 22, 2023

Carol Mbasinge Kigoonya

Microsoft Graph CLI, the command-line tool that provides convenient methods to access Microsoft Graph API capabilities on any operating system and any shell, is now available.

Now available Link unfurling and search based message extensions in Outlook

## Link unfurling and search based message extensions in Outlook generally available

November 21, 2023

Namrata Khubchandani

Extend your existing search based message extensions and link unfurling in Microsoft Teams to Outlook without any new technical investments.

Ignite 2023: Ushering in the era of Microsoft Copilot extensibility

## Ignite 2023: Ushering in the era of Microsoft Copilot extensibility

November 15, 2023

Ben Summers

We're very excited to announce the public preview of Copilot extensibility and other updates about our features and capabilities from across the Microsoft 365 platform.

## Global Developer Updates and Bootcamps :: M365 Developer Blog :: Office Developer :: DevBlog

- [Feature recap ahead of our annual conference, Microsoft Ignite!](#)
- [SSO for your Adaptive Cards](#)
- [Send task approvals using activity feed notification \(Graph APIs\)](#)
- [In-Meeting document signing](#)
- [Managing citations in a Word document](#)
- [Send task approval request using activity feed notification \(Graph APIs\)](#)
- [Dev Proxy v0.13 with new guidance and inspecting web requests](#)



Design beautiful user experiences using Fluent UI

[Get started >](#)



Enrich your app with data and intelligence from Microsoft Graph

[Get started >](#)



Build powerful apps with Outlook and Office

[Get started >](#)

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



[Sustainability](#) • Dec 6 • 5 min read

## [Well-Architected for Industry: Optimize Microsoft Industry Clouds implementation](#) >

As part of our efforts to empower implementers to create reliable, scalable, secure, and cost-efficient solutions, we have introduced Well-Architected for Industry. The framework consists of five pillars of architectural excellence including reliability, cost optimization, operational excellence, performance efficiency, and security.



[Financial services](#) • Nov 30 • 7 min read

## [6 cornerstones of financial services reinvention with data and generative AI](#) >

Most financial services firms are well into their generative AI journeys, although it is still the early days for all of us. In our work with customers, we review these six principles and challenge the business and IT leadership to understand the unique needs of their business, where AI will deliver the most value, and how to make smart early moves in technology investments and early use cases.



[Industrial metaverse](#) • Nov 15 • 4 min read

## [Introducing Copilot in Microsoft Dynamics 365 Guides, bringing generative AI in mixed reality to frontline workers](#) >

Today, we are announcing Copilot in Microsoft Dynamics 365 Guides, which combines the power of generative AI with Mixed Reality to help frontline workers complete complex tasks and resolve issues faster with less disruption to the flow of work.



[Financial services](#) • Nov 15 • 11 min read

## [How AI helps Microsoft partners innovate across industries](#) >

AI is reinventing customer engagement where every connection adds value to the customer relationship, enriching employee experiences to help people be more creative in their work, and reshaping business processes. Read about how Microsoft partners across industries are accelerating innovation with AI.



[Healthcare](#) • Dec 1 • 4 min read

## [How Microsoft and Nuance empower radiologists with AI-powered solutions](#) >

There's an urgent need to deliver proven, scalable solutions that increase radiology efficiencies, reduce the cognitive burden on radiologists while maintaining the highest standards of reporting quality. That's why Microsoft and Nuance are committed to creating outcomes-focused AI solutions that streamline radiology workflows.



# Microsoft Cloud for Sustainability

Record, report, and reduce your organization's environmental impact.

## Emissions Impact Dashboard

Estimate your carbon emissions related to using Microsoft cloud services—including Azure and Microsoft 365—and make more data-driven decisions about cloud usage.

**Emissions Impact Dashboard**

Understand and help reduce your organization's environmental impact with the Emissions Impact Dashboard.

[Explore the dashboard >](#)

**GHG emissions reporting training**

Explore learning modules to measure and report greenhouse gas (GHG) emissions.

[Get started >](#)

## Cloud carbon tracking for your path to net zero

Using Power BI template apps and consistent, third party-validated carbon accounting, the Emissions Impact Dashboard for Azure and the Emissions Impact Dashboard for Microsoft 365 (now in preview) help you measure your Microsoft Cloud-based emissions and carbon savings potential.

**Renewable energy procurement training**

Find out how to build a roadmap to support your shift to renewable energy.

[Get started >](#)

**Sustainability • Nov 27 • 5 min read**

**Microsoft as sustainability customer zero: Using data to drive progress >**

This blog is the first in a series documenting our experience as "customer zero" of our own sustainability technology—from how we got started to how we're now using Microsoft Cloud for Sustainability solutions to record and manage our progress and enable our customers to do the same.

**Sustainability • Nov 28 • 4 min read**

**Maximize the value of your data with new Microsoft Sustainability Manager Intelligent insights >**

We're excited to announce the availability of Microsoft Sustainability Manager Intelligent insights (preview), an AI-powered tool that empowers organizations to perform deeper analysis on their emissions data.

# Microsoft Research Blog



## MatterGen: Property-guided materials design >

December 7, 2023

The central problem in materials science is to discover materials with desired properties. MatterGen enables broad property-guided...



 EMNLP 2023

LLMLingua: Innovating LLM efficiency with prompt compression >

December 7, 2023

Advanced prompting technologies for LLMs can lead to excessively long prompts, causing issues. Learn how LLMLingua compresses prompts up to 20x, maintaining quality, reducing latency, and supporting improved UX.

RESEARCH FOCUS  
DECEMBER 6, 2023

Research Focus: Week of December 4, 2023 >

December 6, 2023

Research Focus: Using LLMs in a Rust-based formal verification framework; Rethinking network measurements with user feedback; 3D telemedicine using HoloportationTM; communication technology could enhance overseas surgical visits.



PwR: Using representations for AI-powered software development >

December 1, 2023 | [Sameer Segal](#) and [Akash Lal](#)

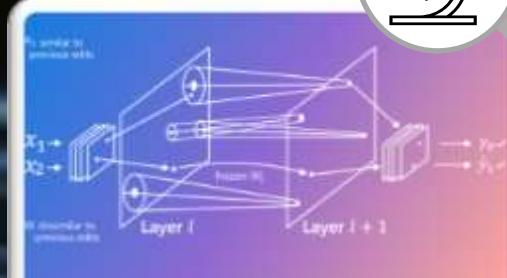
PwR uses domain-specific languages to bridge communication between developers and AI tools. Learn how it can help simplify code creation and enhance software reliability and customization, no matter your coding expertise.

ESEC/FSE 2023

Microsoft at ESEC/FSE 2023: AI techniques for a streamlined coding workflow >

December 6, 2023 | [Xiaoyu Liu](#), [Michele Tufano](#), and [Neel Sundaresan](#)

Explore the latest AI innovations aiming to advance the software development lifecycle. AdaptivePaste adapts and refines pasted code snippets in an IDE. InferFix automates bug detection and repair. Discover how.



Lifelong model editing in large language models: Balancing low-cost targeted edits and catastrophic forgetting >

November 20, 2023 | [Tom Hartvigsen](#) and [Hamid Palangi](#)

Lifelong model editing fixes mistakes discovered after model deployment. This work could expand sequential editing to model properties like fairness and privacy and enable a new class of solutions for adapting LLMs over long deployment lifetimes.

# Microsoft Quantum Blog :: Innovation News



## Microsoft and Photonic join forces on the path to quantum at scale >

November 8, 2023 • 3 min read



By [Dennis Tom](#), General Manager of Azure Quantum

We are excited to announce a strategic co-innovation partnership with Photonic Inc., a company focused on building scalable, fault tolerant, and distributed quantum technologies. [Read more](#)

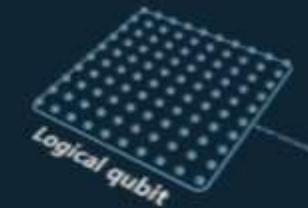
### + Technical docs

Explore the Azure Quantum technical documentation including quick starts, tutorials, and API references.

### + Quantum katas

Learn quantum computing and Q# programming with self-paced tutorials and exercises on GitHub.

[Try Copilot in Azure Quantum](#)



## Defining logical qubits: criteria for Resilient Quantum Computation >

November 28, 2023 • 5-min read



By [Krysta Svore](#), Distinguished Engineer and Vice President of Advanced Quantum Development, Quantum at Microsoft

As an industry, we are all collectively committed to bringing scaled quantum computing to fruition. That's why in June 2023, we offered how quantum computing must graduate through three implementation levels to achieve utility scale: Level 1 Foundational, Level 2 Resilient, Level 3 Scale. [Read more](#)

# Azure



# Azure Updates

## Azure Blog



AI + Machine Learning, Announcements, Azure Government, Azure Orbital Ground Station, Developer Tools, Microsoft Azure portal, Partners

Published December 11, 2023 • 6 min read

### Create new ways to serve your mission with Microsoft Azure Space >

By Zach Kramer, Vice President Engineering, Azure

As customers and partners have adopted and experimented with the Azure Space portfolio, new and interesting use cases are emerging that illustrate what's possible. Today, we are excited to share some of those customer stories, along with updates for Azure Orbital Ground Station, Azure Orbital's software development kit, and Microsoft Planetary Computer.

AI + Machine Learning, Analytics, Azure AI, Azure Machine Learning, Azure OpenAI Service, Best practices, Management and Governance, Thought leadership

Published December 7, 2023 • 6 min read

### Infuse responsible AI tools and practices in your LLMOps >

By Sarah Bird, Partner Group Product Manager

We're dedicated to documenting and sharing our learnings and best practices with the developer community so they can make responsible AI implementation practical for their organizations.

AI + Machine Learning, Azure OpenAI Service, Customer stories, Thought leadership

Published December 5, 2023 • 4 min read

### Future proof—Navigating risk management with Azure OpenAI Service >

By Andy Beatman, Senior Product Marketing Manager, Azure AI

Companies around the world are using AI to understand potential threats, make informed decisions, and take actions to avoid or reduce risk.



AI + Machine Learning, Azure Data Factory, Partners

Published December 5, 2023 • 5 min read

### Harvesting AI-driven insights and efficiencies with agricultural data innovation >

By Martin Kostal, General Manager, Industry Clouds, Microsoft

By not only making actual planning and observational data more accessible, but also helping companies present insights in a human-centric format with generative AI, Azure Data Manager is helping lead the way into a more sustainable future.

## Updates & Announcements

- ❖ [Azure Chaos Studio](#) :: Generally Available
- ❖ [AKS support for API breaking change detection](#) :: Generally Available
- ❖ [Node autoprovision support in AKS](#) :: Public Preview
- ❖ [Azure Functions support on Apple Silicon Macs](#) :: Generally Available
- ❖ [Connection audit logs for Enterprise tier caches for Azure Cache for Redis](#) :: Generally Available
- ❖ [Azure Kubernetes Service \(AKS\) support for 5K Node limit by default for Standard tier clusters](#) :: Generally Available
- ❖ [Encryption with customer-managed keys in Azure Health Data Services](#) :: Generally Available
- ❖ [Migration of Azure Virtual Network injected Azure Data Explorer cluster to Private Endpoints](#) :: Preview
- ❖ [Azure Monitor OpenTelemetry-based Distro for ASP.NET Core Applications](#) :: Generally Available
- ❖ [Create and manage Azure Monitor managed Prometheus rules in Azure portal](#) :: Public Preview
- ❖ [Kafka Input and Output with Azure Stream Analytics](#) Public Preview

AI + Machine Learning, Azure OpenAI Service, Thought leadership

Published December 4, 2023 • 7 min read

### The seven pillars of modern AI development: Leaning into the era of custom copilots >

By Ben Ufuk Tezcan, Principal Program Manager, AI Platform

Although there is much excitement for copilot pattern-based solutions, it's important for businesses to carefully consider the design elements to guarantee a durable, ever-evolving, and effective approach. How can you ensure your solution does not just capture attention, but also enhances customer engagement? Here are six pillars to think through while building yours.



# Microsoft Fabric: Generally Available

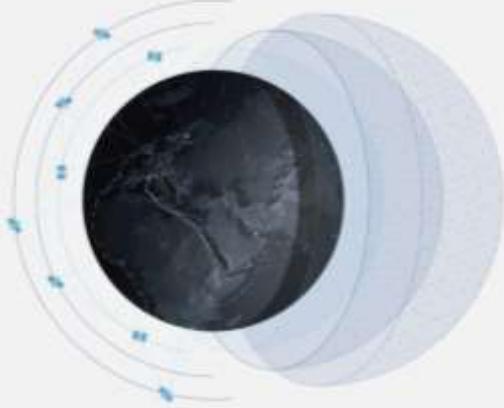
## Data Control end-to-end

Microsoft Fabric—an end-to-end analytics platform that brings together all the data and analytics tools that organizations need:

- Data Factory (Data Integration)
- Synapse Data Engineering
- Synapse Data Warehouse
- Synapse Data Science
- Synapse Real-Time Analytics
- Power BI (Business Intelligence)
- Data Activator (*coming soon*)

The screenshot shows the Microsoft Fabric landing page. At the top right is a circular 'F' logo. Below it, a banner reads 'Announcements · 17 min read' and 'Prepare your data for AI innovation with Microsoft Fabric—now generally available' by Arun Ulagaratchagan. The central part of the page features a diagram of the Microsoft Fabric architecture. It consists of three main vertical columns: 'COMPUTE' (top), 'STORAGE' (middle), and 'MICROSOFT FABRIC' (bottom). The 'MICROSOFT FABRIC' column contains six boxes representing different services: Data Integration (Data Factory), Data Engineering (Synapse), Data Warehouse (Synapse), Data Science (Synapse), Real-Time Analytics (Synapse), and Business Intelligence (Power BI). Below these boxes is a box labeled 'Unified data foundation OneLake'. At the bottom of the page is a call-to-action: 'Bring your data into the era of AI' with the subtext 'Reshape how everyone accesses, manages, and acts on data with a single, AI-powered platform.'

# Azure Services Directory



## Azure Space

Combine the possibilities of space with the power of the cloud

### Azure Space

- ❖ Offer end-to-end on-orbit edge processing solutions on Azure.
- ❖ Build and publish a real-time spacecraft simulation that interacts with on-orbit applications
- ❖ Downlink data without building or managing your own satellite ground station infrastructure
- ❖ Build cloud access points anywhere in the world by leveraging the power of 5G through satellite connectivity.
- ❖ Accelerate time to insight with Earth observation data using [Azure Synapse Analytics](#), [Azure AI](#), and real-time tasking
- ❖ [Reference architecture articulates](#) how to apply artificial intelligence over satellite imagery at scale
- ❖ Build streamlined data processing pipelines in the cloud to manage petabyte scale data with Azure data services.
- ❖ Reduce costs with free backhaul of space data to Azure from Earth observation ground stations.

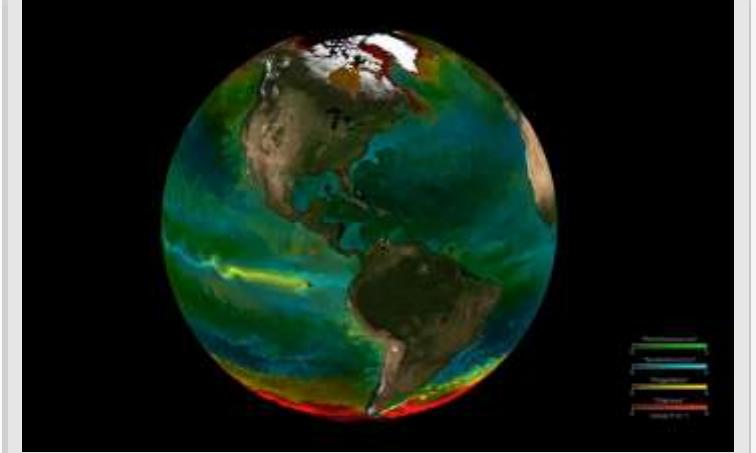


## Azure Orbital Ground station

Rapidly ingest data from space into the cloud with a satellite ground station service.

### Azure Orbital Ground station

- ❖ Select from a global network of Microsoft and partner [antennas](#), and scale as you grow your satellite fleet.
- ❖ Access an extensive ecosystem of cloud-based services, ground stations, and virtual modems through the Azure platform.
- ❖ Rely on resilient and security-enhanced ground stations for sending and receiving data from your satellite.
- ❖ Azure Orbital Ground Station collocates Microsoft ground stations in or near Azure datacenters.
- ❖ Azure Orbital Ground Station helps schedule contacts with Non-Geostationary Earth Orbit satellites (NGSO), which include Low Earth Orbit (LEO) and Medium Earth Orbit (MEO) satellites.
- ❖ Process your signal using integrated high-speed software modems or leverage partner offerings for signal, image processing, and calibration



## Microsoft Planetary Computer

Cloud identity, access, management, and security

### Microsoft Planetary Computer

- ❖ [The Planetary Computer includes petabytes of environmental monitoring data, in consistent, analysis-ready formats, accessible through our APIs](#)
- ❖ Leverage the [Hub](#), a fully managed computing environment that allows scientists to process massive geospatial datasets.
- ❖ Planetary Computer data and APIs are publicly accessible
- ❖ Use the [request access form](#) to express your interest in becoming an early user.
- ❖ Microsoft's [AI for Earth program](#) also provides open source technical resources for conservation work
- ❖ Use tools for [accelerating biodiversity surveys with AI](#) and [AI-accelerated land cover analysis](#).

# Azure Services Directory



## Azure AI Content Safety

Use AI to monitor text and image content for safety.

### Azure AI Content Safety

- ❖ Monitor content with advanced AI-powered language and vision models
- ❖ [Detect offensive or inappropriate content in text and images](#) quickly and efficiently.
- ❖ [Multilingual capabilities in Azure AI Content Safety](#) enable content moderation in English, German, Spanish, French, Portuguese, Italian, and Chinese.
- ❖ [Establish responsible AI practices](#) by monitoring both user-and AI-generated content
- ❖ [Get Started with AI content Safety](#) :: Documentation and samples
- ❖ [Content Safety Studio not only contains out-of-the-box AI models but also includes Microsoft's built-in terms blocklists](#) to flag profanities and stay up to date with new trends.

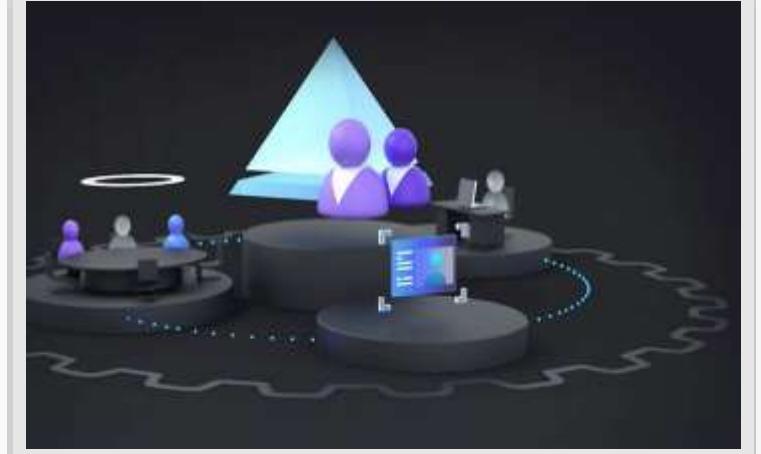


## Azure AI Studio

Simplify Generative AI application development

### Azure AI Studio

- ❖ [Build your own Copilot](#)
- ❖ [Infuse your solution with AI capabilities](#) : Speech, Vision, Language
- ❖ Developers can ground models on their enterprise data and seamlessly integrate structured, unstructured, and real-time data using [Microsoft Fabric](#).
- ❖ [Built on Responsible AI](#): developers integrate responsible AI principles into the development process and evaluate AI applications for quality and safety.
- ❖ [New methods of creating AI solutions](#)
- ❖ [Built-in Retrieval augmented generation](#) and indexes capabilities
- ❖ [Azure AI Studio online training](#)



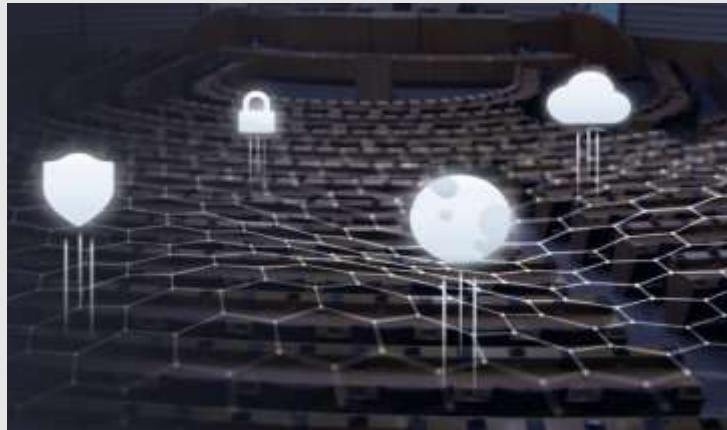
## Azure AD is now Microsoft Entra

Cloud identity, access, management, and security

### Microsoft Entra

- ❖ [Security Copilot is coming to Microsoft Entra](#)
- ❖ [Application Integration](#) and [Single Sign-on \(SSO\)](#)
- ❖ Manage all your identities and access to all your applications in a central location, whether they're in the cloud or on-premises
- ❖ Protect access to resources and data using strong authentication and risk-based adaptive access policies
- ❖ [Microsoft Entra Permissions Management](#) has significant integrations that will give you insights on permission risks
- ❖ [Conditional Access Controls](#), Apply the right access controls to strengthen your organization's security.

# Azure Services Directory

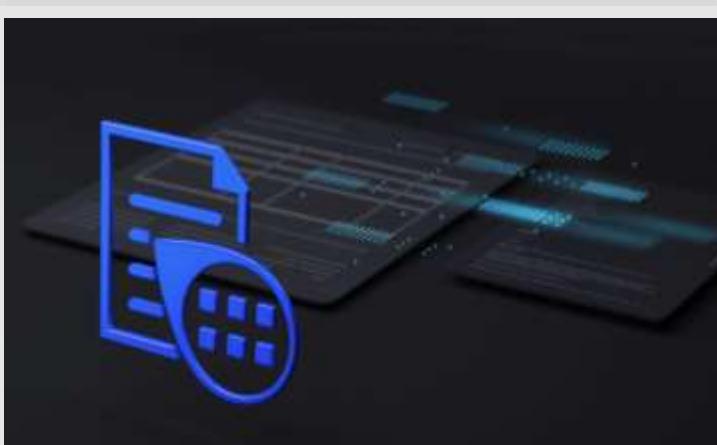


## Cloud for Sovereignty

Unlocking Global Government Innovation

### Cloud for Sovereignty : Preview

- ❖ [Sovereign control portfolio](#) including; Azure Confidential Compute, Azure Key Vault, and Data Sovereignty Policies
- ❖ [Sovereign guardrails and guidance](#) including; Infrastructure as code, Automated policy enforcement, and Workload templates
- ❖ [Compliance and Transparency](#): Meeting specific governance requirements, Enhanced Operational transparency, and Policy Portfolio for local and regulatory adherence
- ❖ [Public cloud capabilities with sovereign protection](#) : Public cloud technology and flexibility, Trusted security, and Resiliency and Availability with low latency to the most extensive global footprint
- ❖ Improve resiliency, security, and scalability
- ❖ Achieve compliance to satisfy legal, security, and policy requirements with operational transparency

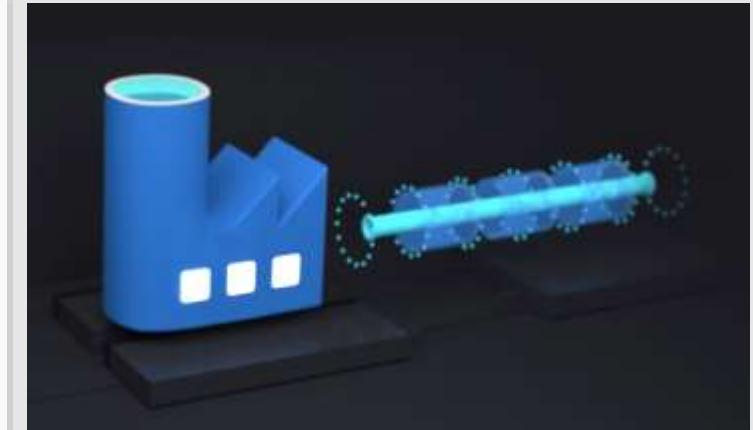


## Azure AI Document Intelligence

Accelerate Information Extraction from documents

### Azure AI Document Intelligence

- ❖ Applies advanced machine learning to extract text, key-value pairs, tables, and structures from documents automatically and accurately.
- ❖ Customize Results: Get output tailored to your layouts with automatic custom extraction and improve it with human feedback.
- ❖ Built-in Security: Rely on enterprise-grade security and privacy applied to both your data and any trained models.
- ❖ [Document Analysis](#): detects and extracts text and layout
- ❖ [Prebuilt, pretrained models](#)
- ❖ [Custom Form Service](#): train on your own data



## Azure Data Factory

Simplify Hybrid Data Integration at Enterprise Scale

### Azure Data Factory: Updates

- ❖ Fully managed, serverless data integration service
- ❖ [Accelerate data transformation with code-free data flows](#): data integration and transformation layer works across ETL
- ❖ [Rehost and extend SSIS in a few clicks](#): Azure Data Factory can help organizations looking to modernize SSIS.
- ❖ [Ingest all your data with built-in connectors](#): more than 90 built-in connectors from big data sources such as Amazon Redshift, Google BigQuery, and HDFS; enterprise data warehouses such as Oracle Exadata and Teradata; SaaS apps such as Salesforce, Marketo, and ServiceNow; and all Azure data services.
- ❖ [Orchestrate, monitor, and manage pipeline performance](#)
- ❖ [Leverage Azure Synapse Analytics](#) new capabilities

# Azure Services Directory



## Azure AI

Drive business results and improve customer experiences with AI solutions

### Azure AI

- ❖ [Azure Applied AI Services](#) – Modernize business, Accelerate development, and run responsibly
- ❖ [Azure Cognitive Services](#) – New sophisticated AI models, Deploy anywhere – Cloud to Edge and all in between
- ❖ [Azure Machine Learning](#) – Develop in your choice of tools, Create and deploy models at scale, Innovate responsibly, and build with your frameworks and languages
- ❖ [Azure AI Infrastructure](#) – Purpose-built AI Supercomputing infrastructure for accelerating your innovation running [AI at scale](#).
- ❖ [AI models for Financial Services, Manufacturing, Retail, and Healthcare](#).
- ❖ [AI Business Solutions](#) – Knowledge Mining, Conversational AI, Document Process Automation, Machine Translation and Speech Transcript



## Azure Cognitive Services

Add cognitive capabilities to apps with APIs and AI services

### Azure Cognitive Services

- ❖ [Speech, Language, Vision, Decision, and Azure OpenAI Services](#) are all part of OpenAI and Cognitive Services
- ❖ [AI and Cognitive Services resources for developers](#)
- ❖ [Azure OpenAI and Azure Cognitive Search can be combined](#) to power application experiences like ChatGPT on enterprise data.
- ❖ Customizable, pretrained models built on responsible AI and security
- ❖ [Deploy Cognitive Services anywhere from cloud to edge with containers](#)
- ❖ [Microsoft's Florence foundation model](#) is a renaissance in computer vision AI



## Azure OpenAI Service

Apply large language models and generative AI to a variety of use cases:

### Azure OpenAI Service : Updates

- ❖ [Power Apps with large-scale AI Models](#)
- ❖ [Apply pre-trained generative models to new scenarios](#) for language, code, reasoning, inferencing, and comprehension
- ❖ [GPT-4 now in Azure OpenAI Services](#)
- ❖ [New Service Models](#) grouped by family and capacity
- ❖ [Responsible AI – Data, Privacy, and Security](#) for Azure OpenAI Service
- ❖ [Azure Reliability tools and training](#) designed for operating Azure OpenAI and mission-critical systems
- ❖ [Safety built directly into Azure GPT-4 model](#)
- ❖ [GPT-4 and ChatGPT models on Azure](#)
- ❖ [Speech, Language, Vision, Decision, and Azure OpenAI Services](#) are all part of OpenAI and Cognitive Services

# Azure Services Directory



## Azure Confidential Computing

Tamperproof, unstructured data store hosted in Trusted Execution Environments (TEE) and backed by cryptographically verifiable evidence

## Azure Confidential Compute

- ❖ [Solutions to enable the isolation your sensitive data](#)
- ❖ [Confidential VMs with Application Enclaves](#) + [Confidential VMs](#) + [Confidential Containers](#)
- ❖ [Azure Confidential Ledger](#) : Tamper-proof register for storing sensitive data for record keeping and auditing or for data transparency in multi-party scenarios. It offers Write-Once-Read-Many guarantees, which make data non-erasable and non-modifiable. The service is built on Microsoft Research's [Confidential Consortium Framework](#).
- ❖ [Microsoft Azure Attestation](#) : a remote attestation service for validating the trustworthiness of multiple Trusted Execution Environments (TEEs) and verifying integrity of the binaries running inside the TEEs.



## Azure Arc

Secure, develop, and operate infrastructure, apps, and Azure services anywhere

## Azure Arc

- ❖ [View and run across datacenters, at the edge, and in multi-cloud environments](#)
- ❖ [Get up and running immediately with your existing tools](#) and practices including GitHub, Terraform, and Visual Studio.
- ❖ [Leverage Reference Architectures to cross environments, datacenters, and clouds](#)
- ❖ [Use Linux and Windows virtual machines \(VMs\), bare-metal servers, and other clouds with the same server management experience across environments.](#)
- ❖ [Meet governance and compliance standards for apps, infrastructure, and data with Azure Policy.](#)



## Azure Sphere

Create, Connect, and maintain secured intelligent IoT devices from the edge to the cloud

## Azure Sphere

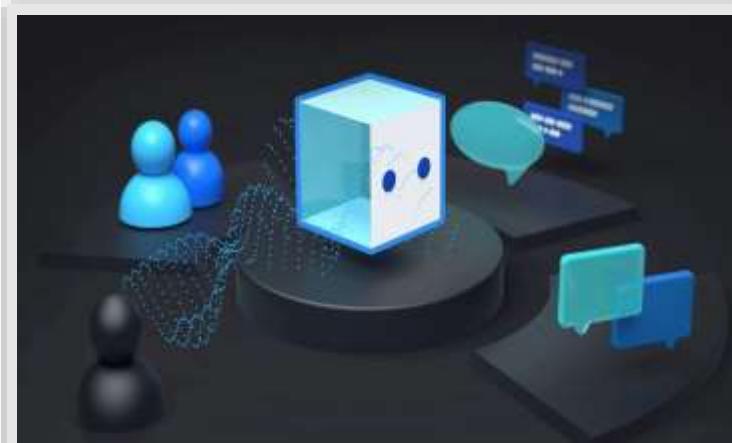
- ❖ [Secured IoT platform for building solutions](#) : From Silicon, through the OS, and the Cloud
- ❖ [Develop, Connect, Manage and Protect intelligent devices](#)
- ❖ [Deploy updates, real-time security patches, OS Updates Over-the-Air \(OTA\)](#)
- ❖ [Solve industry-specific Chip-to-Cloud solutions](#) with advanced device security
- ❖ [Develop real-time capable apps](#)
- ❖ [Use Azure IoT and Azure Sphere for factory-floor operations](#)

# Azure Services Directory



## Azure Operator Nexus

Build mission-critical mobile networks with carrier-grade, hybrid cloud platform



## Azure AI Bot Service

Design and Build enterprise-grade AI Bots



## Microsoft Purview

Govern, protect, and manage your data estate

### Azure Operator Nexus

- ❖ purpose-built for operators' network-intensive workloads and mission-critical applications
- ❖ Operators can unify data governance and enforce security and compliance policies by [Azure Role based Access Control](#) and [Azure Policy](#).
- ❖ Optimize and scale next-generation 5G networks
- ❖ Enhance operations with AI-based analytics
- ❖ Create new revenue with the Azure ecosystem
- ❖ [AT&T runs its 5G Near Edge network functions on Azure Operator Nexus](#)

### Azure AI Bot Service

- ❖ Build conversational experiences with [Power Virtual Agents](#) and [Azure AI Bot Service](#)
- ❖ [Collaboratively build bots with fusion teams](#)
- ❖ Fusion teams can easily extend bots for complex scenarios with [Bot Framework Composer](#).
- ❖ [Extend your reach with multiple channels and languages](#)
- ❖ Create multimodal and multichannel experiences
- ❖ Scale safely with centralized management
- ❖ Leverage [Bot Framework SDK](#) to build, test, deploy, and manage chatbots
- ❖ Use [Azure AI Services](#), [Azure AI Language](#), [Azure AI Vision](#), and [Azure AI Speech](#) for enhanced bots

### Microsoft Purview

- ❖ [Create a unified map of data](#) across your entire data estate
- ❖ [Make data easily discoverable](#)
- ❖ [Discover, classify, and protect sensitive information wherever it lives or travels](#)
- ❖ [Get a bird's-eye view of sensitive data](#) with Data Estate Insights
- ❖ [Share data without having to make duplications](#)
- ❖ [Enable access to the right data for the right users](#)
- ❖ [Import and archive non-Microsoft data](#) and apply Microsoft 365 protections and governance
- ❖ [Purview Privileged Access Management](#)

# Showcase Blog



# Microsoft Showcase Series



Dec 8, 2023 | Josh Krenz

## [Boosting Microsoft's response to cybersecurity attacks with Microsoft Sentinel](#)

Editor's note: We've republished this blog with a new companion video. Sometimes you outgrow the capabilities of a well-loved tool—that's exactly what happened to Microsoft and its on-premises Security Information Event Management (SIEM) system. Thanks to a timely assist from Microsoft Sentinel, the company hasn't missed a beat. Our old SIEM capped out at 10 billion...



Dec 7, 2023 | Lukas Velush

## [Empowering employees after the call: Enabling and securing Microsoft Teams meeting data retention at Microsoft](#)

Microsoft Teams meetings help our globally distributed and digitally connected employees create meaningful hybrid work experiences. When those meetings are recorded and transcribed or their data becomes available to AI-powered digital assistants, their impact increases. Although these features have proven to be incredibly useful to our employees and our wider organization, there are also concerns...

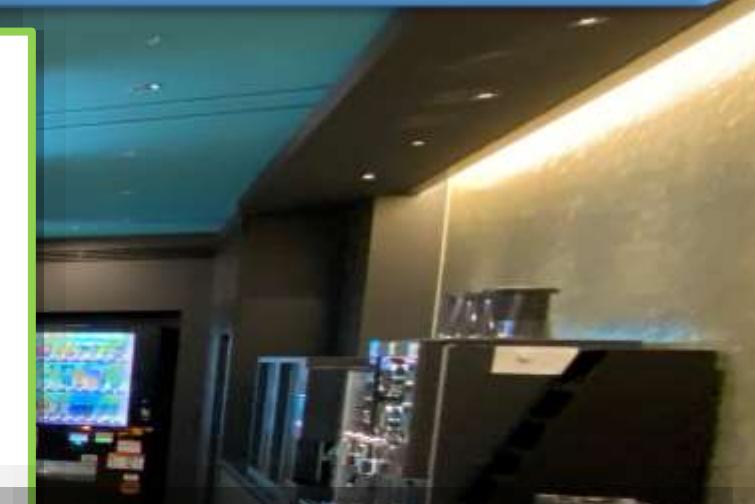
## Inside Track

Discover the inside story of how Microsoft Digital is powering, protecting and transforming Microsoft, helping you learn from our experiences and accelerate your own transformation.

Dec 7, 2023 | Lukas Velush

## [The future of Group Member Management: How Microsoft is leading the way with automation](#)

Just as it is for everyone, maintaining accurate groups for email and apps such as Microsoft Viva and Microsoft Teams is challenging for us internally at Microsoft. Adding and removing employees from groups has been mostly a hand-cramping manual task, and this is especially true for large organizations like ours, where group membership management is...



Dec 6, 2023 | Inside Track staff

## [Microsoft's cloud-centric architecture transformation](#)

Here at Microsoft, we're building our systems in the cloud to be agile, resilient, cost effective, and scalable—this allows us to be proactive and innovative as we transform our IT and business operations. Microsoft Azure resides at the core of our architecture, and we're using the platform to automate our processes, unify our tools, and improve our engineering...

# Microsoft Partner News



Announcing new commerce  
launch and migration details for  
CSP

Announcing new commerce launch and  
migration details.

2023-12-05



Life Sciences To Partner Industry  
Sales Kit

Find Life Sciences To-Partner Industry Sales Kits.

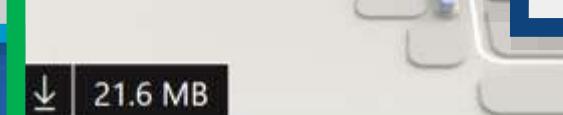
2023-11-30 Engage Customers

Microsoft Azure Partner Resource Library

Azure Partner Resource Library

Offers, incentives, and product marketing assets for Azure partners

2023-11-21 Build Your Practice



21.6 MB

Azure Well-Architected  
Framework updates

The November 2023 refresh of the Well-Architected Framework

2023-11-16 Engage Customers



Energy Partner Assets

Find partner assets for Energy & Resources.

2023-12-08 Engage Customers



# ESI Training Journey

PDF documents outlining the right journey to your training needs: <https://aka.ms/pathways>

**Microsoft Azure Training Journey**

This pathway provides a comprehensive guide to learning Microsoft Azure, covering various services and best practices.

<https://aka.ms/ESIAzureTrainingJourney>

**Microsoft Security Operations Analyst**

This pathway focuses on Microsoft Security Operations Analyst roles, providing training on threat hunting, security operations, and incident response.

<https://aka.ms/Pathways>

**Microsoft Security, Compliance, and Identity Training Journey**

This pathway covers Microsoft Security, Compliance, and Identity training, including topics like Azure AD Identity Protection and Microsoft Defender for Cloud.

<https://aka.ms/ESISecurityTrainingJourney>

**Azure AI Engineer Learning Pathway**

This pathway is designed for Azure AI engineers, covering topics like Azure Cognitive Services, Azure Machine Learning, and Azure Fabric.

<https://aka.ms/Pathways>

**Fabric Learning Companion**

This pathway provides a comprehensive guide to Microsoft Fabric, covering data engineering, data science, and data warehousing.

<https://aka.ms/Pathways>



## Browse all learning paths and modules

Learn new skills and discover the power of Microsoft products with step-by-step guidance. Start your journey today by exploring our learning paths and modules.

A collage of learning module cards and a central call-to-action button. The cards are dark blue with rounded corners and white text. They include titles like "Microsoft Security, Compliance, and Identity Fundamentals", "Explore Microsoft Teams", "Get started with AI on Azure", "Introduction to Power BI", and "PL-900: Microsoft Power Platform Fundamentals". Each card displays a small icon, duration, rating, and category. A large, semi-transparent blue button at the bottom center contains the text "Microsoft Virtual Training Days".

LEARNING PATH  
**Microsoft Security, Compliance, and Identity Fundamentals:** Describe the concepts of security, compliance, and identity management in Microsoft products.  
43 min  
Azure • Business User • Beginner

MODULE  
**Explore Microsoft Teams**  
49 min ★★★★ 4.8 (4.7K)  
Microsoft 365 • Administrator • Intermediate

MODULE  
**Get started with AI on Azure**  
34 min ★★★★ 4.8 (46K)  
Azure • AI Engineer • Beginner

MODULE  
**Introduction to Power BI**  
46 min ★★★★ 4.8 (13K)  
Microsoft Power Platform • Business Analyst • Beginner

LEARNING PATH  
**PL-900: Microsoft Power Platform Fundamentals**  
7 hr 5 min  
Dynamics 365 • Business User • Beginner

MODULE  
**Introduction to Microsoft Power Platform**  
36 min ★★★★ 4.7 (24K)  
Microsoft Power Platform • Business Analyst • Beginner

MODULE  
**Write your first C# code**  
17 min ★★★★ 4.9 (20K)  
.NET • Developer • Beginner

**Microsoft Virtual Training Days**

# Microsoft Events and Training: Updates



## Microsoft Virtual Training Days

### Events Catalog

TRAINING

#### Discover your path

Whether you're just starting or an experienced professional, our hands-on approach helps you arrive at your goals faster, with more confidence and at your own pace.

[Browse the full catalog](#)

[Customize my path](#)

## Experience AI transformation in action at Microsoft Ignite

In Seattle: November 14–17, 2023 PT | Online dates: November 15–16, 2023 PT

Discover the best of what's next in technology, problem-solve with experts, and make global connections to empower yourself to lead your organization.

[Register now](#)

#### Further your goals with Microsoft events

Whether you're a developer, IT professional, partner, educator, or business professional, we have plenty of Microsoft events specifically created with your growth in mind. Explore special events and learning opportunities created to help you expand your expertise, learn new skills, and build community.

Azure

#### Microsoft Azure Virtual Training Day: Building Generative Apps with Azure OpenAI Service

Discover how to provision Azure OpenAI, deploy models, and effectively use language models in generative AI applications.

Date & Time: Wed 03 Jan 2024, 12:00 PM - 03:30 PM

Timezone: EST

Country: Canada

Skill Level: Intermediate

[Register >](#)

Azure

#### Microsoft Azure Virtual Training Day: Implementing a Data Lakehouse with Microsoft Fabric

Learn how Fabric uses Azure Synapse Analytics, Azure Data Factory, and Power BI to simplify and modernize your analytics approach for the era of AI.

Date & Time: Mon 18 Dec 2023, 12:00 PM - Tue 19 Dec 2023, 12:00 PM

Timezone: EST

Country: United States

Skill Level: Intermediate

[Register >](#)

Power Platform

#### Microsoft Power Platform Virtual Training Day: Fundamentals

Explore the basics of building and managing innovative business solutions with Microsoft Power Platform.

Date & Time: Thu 21 Dec 2023, 12:00 PM - 04:00 PM

Timezone: EST

Country: United States

Skill Level: Beginner

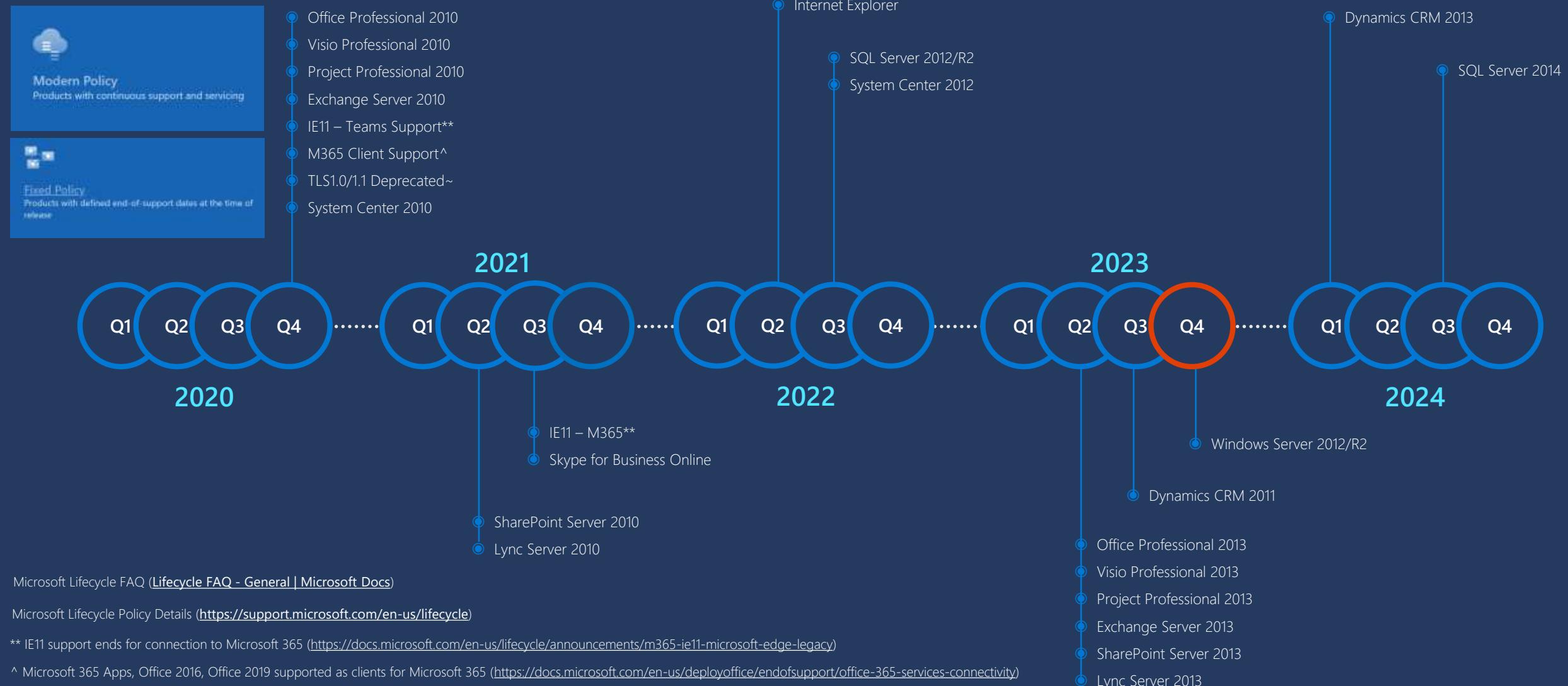
[Register >](#)

# Product Lifecycles





# End of Service Roadmap to 2024



# Microsoft Product Lifecycle: Modern Policy Products that will Retire



## Products under Modern Policy that will Retire in 2023

Products that will Retire in 2023 (Modern Policy)	End of Support Date
<u>Visio Services in SharePoint (in Microsoft 365)</u>	<b>February 10, 2023</b>
<u>Microsoft Store for Business and Education</u>	<b>March 31, 2023</b>
<u>Kaizala</u>	<b>August 31, 2023</b>
<u>Microsoft Azure Virtual Machine (classic)</u> <u>Scheduler for Microsoft 365</u>	<b>September 1, 2023</b>

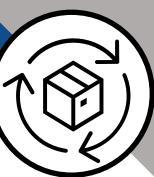
Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

Export All Products

# Microsoft Product Lifecycle: Modern Policy Products that will Retire



## Products under Modern Policy that will Retire in 2024

Products Moving to End of Servicing (Modern Policy)	Retirement Date
<a href="#">Azure Data Lake Storage Gen1</a>	February 29, 2024
<a href="#">Azure Cloud Services (classic)</a> <a href="#">Machine Learning Studio (classic)</a>	August 31, 2024
<a href="#">Azure Database for MySQL Single Server</a>	September 16, 2024

## Products under Modern Policy that will Retire in 2025

Products Moving to End of Servicing (Modern Policy)	Retirement Date
<a href="#">Azure Basic Load Balancer</a> <a href="#">Azure Unmanaged Disks</a>	September 30, 2025
<a href="#">Windows 10 Enterprise and Education</a> <a href="#">Windows 10 Home and Pro</a> <a href="#">Windows 10 IoT Enterprise</a>	October 14, 2025

## Announcements

### Lifecycle data export

#### Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

- ⚡ Power BI Windows app to be retired December 31, 2023
- ⚡ Visual Studio for Mac to be retired August 31, 2024
- ⚡ Windows 11, version 21H2 end of servicing (Home & Pro)
- ⚡ Power BI Windows app for Surface Hub reaching retirement
- ⚡ Windows 10, version 22H2 end of support date updated
- ⚡ Windows 10, version 21H2 end of servicing (Home & Pro)

- ⚡ Windows 10, version 20H2 end of servicing (Enterprise, Education)
- ⚡ Microsoft Store for Business and Education retiring March 31, 2023
- ⚡ Windows Server 2012 and 2012 R2 reaching end of support
- ⚡ UPDATED: Support extended for Visio Services in SharePoint Online (aka Visio Web Access)
- ⚡ Windows 10, version 21H1 end of servicing
- ⚡ Deprecation of Basic Authentication (Basic Auth) in Exchange Online

[See more >](#)

# Microsoft Product Lifecycle: Azure Changes 2023



Azure Item	Retirement
Retirement of Computer Vision API v3.2 previews	January 30, 2023
Migrate your IaaS resources to Azure Resource Manager by March 1, 2023 We are retiring Azure AD Domain Services classic VNET support on March 1, 2023 We're retiring some Azure Site Recovery support options on March 1, 2023	March 1, 2023
Action required: Support for Azure Monitor for SAP solutions (classic) resources will end by 31 March 2023 Classic data export in Azure IoT Central will be retired by 31 March 2023 Continuous delivery setting of Azure VMSS will be retired on 31 March 2023 – Use Azure DevOps to create pipelines Deployment Center setting of Azure Kubernetes service (AKS) will be retired on 31 March 2023 – Use Automated Deployments to create pipelines Review your VNET configurations that may be affected by IP address changes	March 31, 2023
Azure Batch TLS 1.0/1.1 will be retired on 31 March 2023	April 1, 2023
Community support for Node 14 LTS is ending on 30 April 2023	April 30, 2023
Responsible AI investments and safeguards for Facial Recognition	July 1, 2023
Azure API Management will retire 5 legacy metrics in Azure Monitor on 31 August 2023 Azure S8 and S9 Analysis Services SKUs retiring on 31 August 2023 Azure Storage classic metrics will be retired on 31 August 2023 Migrate your Azure Data Factory version 1 to 2 service (updated migration link) NC v2-series Azure Virtual Machines retirement extended to 31 August 2023 NC-series Azure Virtual Machines retirement extended to 31 August 2023 ND-series Azure Virtual Machines retirement extended to 31 August 2023 NV-series and NV Promo Azure Virtual Machines retirement extended to 31 August 2023 Update: NC v2-series Azure Virtual Machines will be retired on 31 August 2023 Update: NC-series Azure Virtual Machines will be retired on 31 August 2023 Update: ND-series Azure Virtual Machines will be retired on 31 August 2023 Update: NV-series and NV Promo Azure Virtual Machines will be retired on 31 August 2023 View Designer in Azure Monitor is retiring on 31 August 2023	August 31, 2023
Operator Assistance in Azure MFA will be retired on 30 September 2023	September 30, 2023
Action Required: Update to Data Science Virtual Machine Ubuntu 18.04 Bing Search APIs will transition from Azure Cognitive Services to Azure Marketplace on 31 October 2023 Legacy developer portal in Azure API Management will retire on 31 October 2023 We're retiring Azure SQL DB Import-Export Direct Endpoints on 31 October 2023	October 31, 2023
Community support for PHP 8.0 is ending on 26 November 2023	November 26, 2023

# Microsoft Product Lifecycle: Azure Changes 2024



Azure Item	Retirement
<a href="#">AKS legacy Azure AD integration</a> will be retired on 29 February 2024 <a href="#">Azure Batch 'CloudServiceConfiguration' pools</a> will be retired on 29 February 2024 <a href="#">Azure Batch rendering VM images &amp; licensing</a> will be retired on 29 February 2024 <a href="#">Azure Batch Transcription and Customization Rest API v2</a> will be retired by 29 February 2024 <a href="#">Jenkins plug-ins for Azure</a> are being retired on 29 February 2024 <a href="#">Start using new alerts in Azure Monitor for Azure China 21Vianet</a> <a href="#">Start using new alerts in Azure Monitor for Azure Government Cloud</a> <a href="#">Update the Azure Cosmos DB Java SDK</a> by 29 February 2024 <a href="#">Update your Azure Media Services REST API and SDKs to v3</a> by 29 February 2024 <a href="#">Update your scripts to use Az PowerShell modules</a> by 29 February 2024 <a href="#">We're retiring the standard version of Custom Voice</a> on 29 February 2024	<b>February 29, 2024</b>
<a href="#">Azure Batch Certificates</a> will be retired on 29 February 2024	March 1, 2024
<a href="#">App Service Environment version 1 and version 2</a> will be retired on 31 August 2024 <a href="#">Azure classic storage accounts</a> will be retired on 31 August 2024 <a href="#">Azure Data Factory Compute Optimized data flows</a> will be retired on 31 August 2024 <a href="#">Azure Synapse Analytics Compute Optimized data flows</a> will be retired on 31 August 2024 <a href="#">Basic and Standard A-series VMs</a> will retire on 31 August 2024 <a href="#">Five Azure classic networking services</a> will be retired on 31 August 2024 <a href="#">Hard coded IP address for Azure Site Recovery</a> will be retired on 31 August 2024 <a href="#">HB-series Azure Virtual Machines</a> will be retired by 31 August 2024 <a href="#">Integration Services Environment</a> will be retired on 31 August 2024 – transition to Logic Apps Standard <a href="#">Multi-step web tests</a> will be retired on 31 August 2024 <a href="#">Release annotations using API keys</a> will be retired on 31 August 2024 <a href="#">Retiring version Async 2.x of the Azure Cosmos DB Java SDK</a> on 31 August 2024 <a href="#">Select Azure Cognitive Search skills</a> will be retired on 31 August 2024 <a href="#">Update Java SDK 3.x to Java SDK 4.x</a> by 31 August 2024 <a href="#">Upgrade to Text-to-Speech Neural Voice</a> by 31 August 2024 <a href="#">We're retiring the Log Analytics agent in Azure Monitor</a> on 31 August 2024	August 31, 2024
<a href="#">Microsoft HPC Pack Burst to Cloud Services</a> will be retired on 31 August 2024	September 1, 2024
<a href="#">Support for PostgreSQL version 11 in Azure Database PostgreSQL Single Server</a> ends on 9 November 2024	November 10, 2024

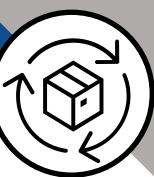
# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2023

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<u><a href="#">Microsoft Configuration Manager, Version 2107</a></u>	<b>February 2, 2023</b>
<u><a href="#">FSLogix, Version 2210</a></u>	<b>March 3, 2023</b>
<u><a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2021 release wave 2, version 19.x</a></u>	<b>April 12, 2023</b>
<u><a href="#">Windows 10 Enterprise and Education, Version 20H2</a></u> <u><a href="#">Windows 10 IoT Enterprise, Version 20H2</a></u>	<b>May 9, 2023</b>
<u><a href="#">Microsoft Configuration Manager, Version 2111</a></u>	<b>June 1, 2023</b>
<u><a href="#">Windows 10 Home and Pro, Version 21H2</a></u>	<b>June 13, 2023</b>
<u><a href="#">Microsoft Configuration Manager, Version 2203</a></u>	<b>October 6, 2023</b>
<u><a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2022 release wave 1, version 20.x</a></u> <u><a href="#">Windows 11 Home and Pro, Version 21H2</a></u>	<b>October 10, 2023</b>

# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2024

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Microsoft Configuration Manager, Version 2207</a>	<b>February 12, 2024</b>
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2022 release wave 2, version 21.x</a>	April 14, 2024
<a href="#">Windows 10 Enterprise and Education, Version 21H2</a> <a href="#">Windows 10 IoT Enterprise, Version 21H2</a>	June 11, 2024
<a href="#">Microsoft Configuration Manager, Version 2211</a>	July 19, 2024
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2023 release wave 1, version 22.x</a> <a href="#">Windows 11 Enterprise and Education, Version 21H2</a> <a href="#">Windows 11 Home and Pro, Version 22H2</a> <a href="#">Windows 11 IoT Enterprise, Version 21H2</a>	October 8, 2024
<a href="#">Microsoft Configuration Manager, Version 2303</a>	October 24, 2024
<a href="#">PowerShell, PowerShell 7.2 (LTS-current)</a>	November 8, 2024
<a href="#">Azure IoT Edge, Version 1.4 (LTS)</a> <a href="#">.NET 6.0 (LTS)</a>	November 12, 2024

## Products Release End of Servicing for 2025

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Windows 11 Enterprise and Education, Version 22H2</a> <a href="#">Windows 11 IoT Enterprise, Version 22H2</a>	October 14, 2025
<a href="#">Windows Server Annual Channel, Version 23H2</a>	October 24, 2025
<a href="#">Windows 11 Home and Pro, Version 23H2</a>	November 11, 2025

# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



## Products Reaching End of Support for 2023

Products Moving to End of Support (Fixed Policy)	End of Servicing Date	Products Moving to End of Support (Fixed Policy)	End of Servicing Date
<a href="#">Dynamics AX 2012 R3</a> <a href="#">Dynamics NAV 2013</a> <a href="#">Dynamics NAV 2013 R2</a> <a href="#">Internet Information Services (IIS), IIS 8.5 on Windows 8.1</a> <a href="#">Microsoft Diagnostics and Recovery Toolset 8.0</a> <a href="#">Microsoft Report Viewer 2012 Runtime</a> <a href="#">Microsoft Report Viewer Redistributable 2012</a> <a href="#">Microsoft Workflow Manager 1.0</a> <a href="#">Service Bus for Windows Server</a> <a href="#">User Experience Virtualization (UE-V) 1.0</a> <a href="#">Visual Studio 2012</a> <a href="#">Visual Studio Team Foundation Server 2012</a> <a href="#">Windows 7, Extended Security Update Year 3*</a> <a href="#">Windows 8.1</a> <a href="#">Windows Defender For Windows 8 and 8.1</a> <a href="#">Windows Embedded 8.1 Pro</a> <a href="#">Windows RT</a> <a href="#">Windows Server 2008, Extended Security Update Year 3</a> <a href="#">Windows Server 2008 R2, Extended Security Update Year 3</a>	January 10, 2023	<a href="#">BizTalk Server 2013</a> <a href="#">BizTalk Server 2013 R2</a> <a href="#">Dynamics 365 for Customer Engagement Apps, version 9 (on-premises update), Original Release (ver 9.0)</a> <a href="#">Microsoft BitLocker Administration and Monitoring 2.0</a> <a href="#">Microsoft SQL Server 2008, Extended Security Update Year 4 (Azure only)</a> <a href="#">Microsoft SQL Server 2008 R2, Extended Security Update Year 4 (Azure only)</a> <a href="#">Microsoft SQL Server 2012, Extended Security Update Year 1</a> <a href="#">Visual Studio 2022 , Version 17.0 (LTSC channel)</a> <a href="#">Windows Embedded 8 Standard</a> <a href="#">Windows Embedded 8.1 Industry</a>	July 11, 2023
<a href="#">Access 2013</a> <a href="#">Dynamics GP 2013</a> <a href="#">Dynamics GP 2013 R2</a> <a href="#">Excel 2013</a> <a href="#">Exchange Server 2013</a> <a href="#">HPC Pack 2012</a> <a href="#">HPC Pack 2012 R2</a> <a href="#">Lync 2013</a> <a href="#">Microsoft Lync Phone Edition</a> <a href="#">Microsoft Lync Server 2013</a> <a href="#">Microsoft Office 2013</a> <a href="#">Microsoft OneNote 2013</a> <a href="#">Outlook 2013</a> <a href="#">PowerPoint 2013</a> <a href="#">Project 2013</a> <a href="#">Project Server 2013</a> <a href="#">Publisher 2013</a> <a href="#">SharePoint Foundation 2013</a> <a href="#">SharePoint Server 2013</a> <a href="#">Skype for Business 2015</a> <a href="#">Visio 2013</a> <a href="#">Word 2013</a>	April 11, 2023	<a href="#">Excel 2019 for Mac</a> <a href="#">Hyper-V Server 2012</a> <a href="#">Hyper-V Server 2012 R2</a> <a href="#">Internet Explorer 7</a> <a href="#">Internet Information Services (IIS), IIS 8 on Windows Server 2012</a> <a href="#">Internet Information Services (IIS), IIS 8.5 on Windows Server 2012 R2</a> <a href="#">Microsoft Office 2019 for Mac</a> <a href="#">Microsoft Office Audit and Control Management Server 2013</a> <a href="#">Outlook 2019 for Mac</a> <a href="#">PowerPoint 2019 for Mac</a> <a href="#">Windows Embedded Compact 2013</a> <a href="#">Windows Embedded POSReady 7, Extended Security Update Year 2*</a> <a href="#">Windows Embedded Standard 7, Extended Security Update Year 3*</a> <a href="#">Windows MultiPoint Server 2012</a> <a href="#">Windows Server 2012</a> <a href="#">Windows Server 2012 R2</a> <a href="#">Windows Server Update Services for Windows Server 2012</a> <a href="#">Windows Server Update Services for Windows Server 2012 R2</a> <a href="#">Windows Storage Server 2012</a> <a href="#">Windows Storage Server 2012 R2</a> <a href="#">Word 2019 for Mac</a>	October 10, 2023

# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2024



## Products Reaching End of Support for 2024

<b>Products Moving to End of Support (Fixed Policy)</b>	<b>End of Support Date</b>
<u>Dynamics CRM 2013</u> <u>Microsoft Host Integration Server 2013</u> <u>Visual Studio 2022 , Version 17.2 (LTSC channel)</u> <u>Windows Server 2008, Extended Security Update Year 4 (Azure only)</u> <u>Windows Server 2008 R2, Extended Security Update Year 4 (Azure only)</u>	<b>January 9, 2024</b>
<u>Microsoft Deployment Agent 2013</u> <u>Microsoft Diagnostics and Recovery Toolset 8.1</u> <u>Test Agent, Controller</u> <u>User Experience Virtualization (UE-V) 2.0</u> <u>Visual Studio 2013</u> <u>Visual Studio Team Foundation Server 2013</u>	April 9, 2024
<u>Microsoft SQL Server 2012, Extended Security Update Year 2</u> <u>SQL Server 2014</u>	July 9, 2024
<u>Visual Studio 2022 , Version 17.4 (LTSC channel)</u>	July 11, 2024
<u>Microsoft SQL Server 2012 Parallel Data Warehouse (Analytics Platform System)</u> <u>Windows Embedded POSReady 7, Extended Security Update Year 3*</u> <u>Windows Server 2012, Extended Security Update Year 1</u> <u>Windows Server 2012 R2, Extended Security Update Year 1</u>	October 8, 2024

# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2025



## Products Release End of Support for 2025

Products Moving to End of Servicing (Fixed Policy)	End of Servicing Date
<a href="#">Visual Studio 2022 , Version 17.6 (LTSC channel)</a>	January 9, 2025
<a href="#">Dynamics C5 2015</a> <a href="#">Dynamics CRM 2015</a> <a href="#">Dynamics NAV 2015</a> <a href="#">Dynamics SL 2015</a>	January 14, 2025
<a href="#">Dynamics GP 2015</a> <a href="#">Dynamics GP 2015 R2</a>	April 8, 2025
<a href="#">Microsoft SQL Server 2012, Extended Security Update Year 3</a> <a href="#">SQL Server 2014, Extended Security Updates Year 1</a>	July 8, 2025

Products Moving to End of Servicing (Fixed Policy)	End of Servicing Date
<a href="#">Access 2016</a> <a href="#">Access 2019</a> <a href="#">Dynamics 365 Business Central on-premises (Fixed Policy)</a> <a href="#">Excel 2016</a> <a href="#">Excel 2019</a> <a href="#">Exchange Server 2016</a> <a href="#">Exchange Server 2019</a> <a href="#">Microsoft Office 2016</a> <a href="#">Microsoft Office 2019</a> <a href="#">Microsoft Report Viewer 2015 Runtime</a> <a href="#">OneNote 2016</a> <a href="#">Outlook 2016</a> <a href="#">Outlook 2019</a> <a href="#">PowerPoint 2016</a> <a href="#">PowerPoint 2019</a> <a href="#">Project 2016</a> <a href="#">Project 2019</a> <a href="#">Publisher 2016</a> <a href="#">Publisher 2019</a> <a href="#">Skype for Business 2016</a> <a href="#">Skype for Business 2019</a> <a href="#">Skype for Business Server 2015</a> <a href="#">Skype for Business Server 2019</a> <a href="#">Visio 2016</a> <a href="#">Visio 2019</a> <a href="#">Visual Studio 2015</a> <a href="#">Visual Studio Team Foundation Server 2015</a> <a href="#">Windows 10 2015 LTSB</a> <a href="#">Windows 10 IoT Enterprise LTSB 2015</a> <a href="#">Windows 10 Team (Surface Hub)</a> <a href="#">Windows Defender Exploit Guard</a> <a href="#">Windows Defender for Windows 10</a> <a href="#">Windows Server 2012, Extended Security Update Year 2</a> <a href="#">Windows Server 2012 R2, Extended Security Update Year 2</a> <a href="#">Word 2016</a> <a href="#">Word 2019</a>	October 14, 2025

# Microsoft Product Lifecycle: Products moving to Extended Support



## Products Moving to Extended Support for 2023

<b>Products Moving to Extended Support (Fixed Policy)</b>	<b>End of Support Date</b>
<u>Dynamics GP 2018</u> <u>Dynamics GP 2018 R2</u> <u>Dynamics NAV 2018</u> <u>Visual Studio Team Foundation Server 2018</u>	<b>January 10, 2023</b>
<u>Access 2019</u> <u>Dynamics 365 Business Central on-premises (Fixed Policy)</u> <u>Excel 2019</u> <u>Microsoft Office 2019</u> <u>OneNote 2016</u> <u>Outlook 2019</u> <u>PowerPoint 2019</u> <u>Project 2019</u> <u>Publisher 2019</u> <u>Visio 2019</u> <u>Word 2019</u>	<b>October 10, 2023</b>

# Microsoft Product Lifecycle: Products moving to Extended Support



## Products Moving to Extended Support for 2024

<b>Products Moving to Extended Support (Fixed Policy)</b>	<b>End of Support Date</b>
<a href="#">Dynamics SL 2018</a>	
<a href="#">Exchange Server 2019</a>	
<a href="#">Hyper-V Server 2019</a>	
<a href="#">Project Server 2019</a>	
<a href="#">SharePoint Server 2019</a>	
<a href="#">Skype for Business 2019</a>	
<a href="#">Skype for Business Server 2019</a>	
<a href="#">Windows 10 Enterprise LTSC 2019</a>	
<a href="#">Windows 10 IoT Core LTSC</a>	
<a href="#">Windows 10 IoT Enterprise LTSC 2019</a>	
<a href="#">Windows 10 IoT LTSC 2019 Core</a>	
<a href="#">Windows Server 2019</a>	
<a href="#">Windows Server IoT 2019</a>	
<a href="#">Windows Server IoT 2019 for Storage</a>	
	<b>January 9, 2024</b>
<a href="#">Azure DevOps Server 2019</a>	
<a href="#">System Center 2019 Data Protection Manager</a>	
<a href="#">System Center 2019 Operations Manager</a>	
<a href="#">System Center 2019 Orchestrator</a>	
<a href="#">System Center 2019 Service Manager</a>	
<a href="#">System Center 2019 Virtual Machine Manager</a>	
<a href="#">Visual Studio 2019</a>	
	<b>April 9, 2024</b>

## Products Moving to Extended Support for 2025

<b>Products Moving to Extended Support (Fixed Policy)</b>	<b>End of Support Date</b>
<a href="#">SQL Server 2019</a>	February 28, 2025
<a href="#">Azure DevOps Server 2020</a> <a href="#">Microsoft Robotics</a>	October 14, 2025



# Acquisitions and Announcements

# Microsoft Acquisitions - 2023



Company	Date	Description
<a href="#"><b>Fungible</b></a>	01-09-2023	<p><a href="#"><b>Fungible Inc.</b></a>, a provider of composable infrastructure aimed at accelerating networking and storage performance in datacenters with <b>high-efficiency, low-power data processing units (DPUs)</b>. Fungible's technologies help enable <b>high-performance, scalable, disaggregated, scaled-out datacenter infrastructure</b> with reliability and security. <b>The Fungible team will join Microsoft's datacenter infrastructure engineering teams and will focus on delivering multiple DPU solutions, network innovation and hardware systems advancements.</b></p>

# Microsoft Acquisitions - 2022



Company	Date	Description
<a href="#"><b>Lumenisity</b></a>	12-09-2022	<b>Lumenisity® Limited</b> , a leader in next-generation hollow core fiber (HCF) solutions. Lumenisity's innovative and industry-leading HCF product can enable fast, reliable and secure networking for global, enterprise and large-scale organizations. The acquisition will <b>expand Microsoft's ability to further optimize its global cloud infrastructure and serve Microsoft's Cloud Platform and Services customers with strict latency and security requirements</b> .
<a href="#"><b>Miburo</b></a>	06-14-2022	<b>Miburo</b> will enhance Microsoft's Cybersecurity and Threat Analysis capabilities. The addition of Miburo will <b>enable Microsoft to expand its threat detection and analysis capabilities to address new cyber-attacks and shed light on the ways in which foreign actors use information operations</b> in conjunction with other cyber-attacks to achieve their objectives. Miburo is a leading <b>expert in the identification of foreign information operations</b> . Miburo's research teams <b>detect and attribute malign and extremist influence campaigns across 16 languages</b> . The combination of Microsoft and Miburo will help to stop foreign adversaries from threatening public and private sector customers and, in fact, the very foundations of our democracy.
<a href="#"><b>Minit</b></a>	03-31-2022	<b>Minit</b> currently <b>enables businesses to transform the way they analyze, monitor and optimize their processes</b> . Minit's solutions have helped businesses gain <b>deep insights into how processes run</b> , uncover root causes of operational challenges and help mitigate undesired process outcomes. This acquisition <b>will further empower Microsoft to help our customers digitally transform and drive operational excellence</b> by creating a complete picture of their business processes, enabling every process to be easily and automatically analyzed and improved. Customers will be able to <b>better understand their process data, uncover what operations look like in reality and drive process standardization and improvement across the entire organization to ensure compliance at every step</b> .
<a href="#"><b>Oribi</b></a>	02-28-2022	Microsoft's LinkedIn will acquire <a href="#"><b>Oribi</b></a> , an Israel based <b>marketing analytics company</b> , to further help customers, from marketers to recruiters, <b>gain actionable insights, make smarter decisions and drive business results</b> . The integration of LinkedIn and Oribi will <b>accelerate Microsoft's marketing attribution and codeless analytics capabilities</b> .
<a href="#"><b>Activision Blizzard</b></a>	01-18-2022	Microsoft announced <b>plans to acquire Activision Blizzard Inc.</b> (Nasdaq: ATVI), a leader in game development and interactive entertainment content publisher. This <b>acquisition will accelerate the growth in Microsoft's gaming</b> business across mobile, PC, console and cloud and <b>will provide building blocks for the metaverse</b> . "The combination of Activision Blizzard's world-class talent and extraordinary franchises with Microsoft's technology, distribution, access to talent, ambitious vision and shared commitment to gaming and inclusion will help ensure our continued success in an increasingly competitive industry."

# Microsoft Acquisitions - 2021



Company	Date	Description
<a href="#">Xandr</a>	12-21-2021	Microsoft will <b>acquire Xandr from AT&amp;T</b> . Xandr provides a <b>data-enabled technology platform with tools</b> that help power a diverse ecosystem <b>connecting marketers and media owners through first-party, data-led advertising solutions</b> across its network. With Xandr, <b>Microsoft can accelerate the delivery of digital advertising solutions for the open web</b> by combining Microsoft's audience understanding, technology and global advertising customer base with Xandr's large-scale, data-driven platforms for advertising.
<a href="#">Two Hat</a>	10-29-2021	<b>Two Hat</b> , a leading content moderation solution provider offering protection measures for online communities. Two Hat's technology has helped to make global communities in Xbox, Minecraft and MSN safer for users.
<a href="#">Clear Software</a>	10-22-2021	<b>Clear Software</b> provides iPaaS and business process solutions with <b>strong connectivity into SAP and Oracle</b> . <b>Clear Software's API access and system knowledge will strengthen Microsoft Power Platform's integration with outside systems and accelerate how customers leverage data and processes</b> that reside beyond Microsoft first-party services.
<a href="#">Ally.IO</a>	10-07-2021	<b>Ally.io</b> , a leading OKR (objectives and key results) company, will <b>join the Microsoft Viva family as part of our employee experience platform (EXP)</b> designed to help companies embrace the new digital work life. <b>Ally.io will power a new Microsoft Viva module</b> . Viva is an employee experience platform that brings together communications, knowledge, learning, resources and insights – from anywhere you work. <b>Powered by Microsoft 365 and Microsoft Teams</b> , Viva helps organizations foster a culture of human connection, growth, well-being and success.
<a href="#">TakeLessons</a>	09-08-2021	We're so excited to announce that <b>TakeLessons has been acquired by Microsoft</b> . We believe this will further support TakeLessons' mission: <b>to empower people to learn, connect, grow, and live more meaningful lives through education</b> .
<a href="#">Clipchamp</a>	09-07-2021	<b>Clipchamp</b> is a natural fit to extend the cloud-powered productivity experiences in <b>Microsoft 365</b> for individuals, families, schools, and businesses. It's also a great fit for Microsoft Windows, which is a platform for boundless creativity. <b>Clipchamp's template-driven, task-focused user experience</b> gives everyone the confidence that they can create. Its <b>rich library of filters, styles, transitions, and stock media combined with the power of a multi-track audio and video compositing editor</b> gives everyone the fine control they need, and artistic help if they need it, to <b>create exactly what they want, quickly and with confidence</b> .
<a href="#">Peer5</a>	08-10-2021	<b>Peer5</b> expands Microsoft's ability for delivering <b>secure, high-quality, large-scale live video streaming with optimized network performance in Teams</b> . Peer5 offers a WebRTC-based eCDN solution that runs in-browser to optimize bandwidth usage helping mitigate impacts to network and line of business (LOB) applications. Its <b>mesh networks are self-balancing and automatically scale</b> as the number of viewers increase.

# Microsoft Acquisitions - 2021



Company	Date	Description
<a href="#">Suplari</a>	07-28-2021	<a href="#">Suplari</a> , a leading provider of <b>supplier spend insights</b> . Suplari enables <b>companies to proactively manage supplier spend by transforming data from multiple sources</b> , such as contracts, purchase orders, invoices, expenses, and supplier risk, into valuable insight. By bringing Suplari's spend intelligence insights together with the existing <a href="#">Microsoft Dynamics 365</a> capabilities, Microsoft is <b>further helping organizations become insight-driven</b> and enabling business leaders to take strategic action.
<a href="#">CloudKnox</a>	07-21-2021	Enhanced Zero-Trust controls. The acquisition of <a href="#">CloudKnox</a> further enables <a href="#">Microsoft Azure Active Directory</a> customers with <b>granular visibility, continuous monitoring and automated remediation for hybrid and multi-cloud permissions</b> . Microsoft is committed to providing our customers with unified privileged access management, identity governance and entitlement management. With this Cloudknox, Microsoft is uniquely positioned to <b>empower and defend the future of hybrid work and multi-cloud environments, providing essential visibility, control and monitoring Zero Trust demands</b> .
<a href="#">RiskIQ</a>	07-12-2021	A <b>leader in global threat intelligence and attack surface management</b> , to help our shared customers build a more comprehensive view of the global threats to their businesses, better understand vulnerable internet-facing assets, and build world-class threat intelligence. <a href="#">RiskIQ</a> offers global threat intelligence collected from across the internet, <b>crowd-sourced through its PassiveTotal community of security researchers and analyzed using machine learning</b> . The combination of RiskIQ's attack surface management and threat intelligence empowers security teams to assemble, graph, and identify connections between their digital attack surface and attacker infrastructure and activities, to help <b>provide increased protection and faster response</b> .
<a href="#">ReFirm Labs</a>	06-02-2021	<a href="#">ReFirm Labs</a> is joining Microsoft to <b>enrich our firmware analysis and security capabilities across devices that form the intelligent edge, from servers to IoT</b> . This acquisition marks the <b>next step in our journey and ability to help secure customers from the chip to the cloud</b> , backed by more than 3,500 defenders at Microsoft and the >8 trillion security signals we process every day. <a href="#">ReFirm</a> are the authors of the well-respected <a href="#">Binwalk open-source software</a> , which has been used to <b>analyze thousands of device types for firmware security issues</b> , uncovering unpatched common vulnerabilities and exposures (CVEs), insecure secrets, and a multitude of other security problems in plugin IoT devices and embedded firmware. <a href="#">Microsoft acquires ReFirm Labs to enhance IoT security - Microsoft Security</a>
<a href="#">Kinvolk</a>	04-29-2021	<a href="#">Kinvolk</a> has a rich, innovative history in open source cloud-native distributed computing, including Kubernetes, eBPF, community building, and <b>container-optimized Linux</b> . Kinvolk will be key contributors to the engineering development of <a href="#">Azure Kubernetes Service (AKS)</a> , <a href="#">Azure Arc</a> , and future projects that <b>will expand Azure's hybrid container platform capabilities</b> and <b>increase Microsoft's upstream open source contributions</b> in the Kubernetes and container space.
<a href="#">Nuance</a>	04-12-2021	<a href="#">Nuance</a> is a cloud software pioneer and a leading provider of conversational AI and ambient clinical intelligence. Nuance provides <b>AI expertise and intelligent customer engagement across Interactive Voice Response (IVR), virtual assistants, and digital and biometric solutions</b> to some of the largest organizations in the world. Nuance's global customer and partner base spans nearly every industry, and <b>together we are well-positioned to advance our AI capabilities with high-value solutions and a platform to support our customers' and partners' future innovation</b> .
<a href="#">The Marsden Group</a>	03-16-2021	<a href="#">The Marsden Group</a> is a leader in industrial technology innovation and rapid prototyping. The Marsden Group has earned a unique reputation as a powerful and trusted partner among industry leaders who seek to <b>quickly identify business needs, ideate technology solutions and build high-quality prototypes tailored to individual customer needs</b> . The Marsden Group has helped its enterprise customers rapidly envision, prototype and implement solutions that <b>drive meaningful value to their businesses, employees and customers</b> .



## Microsoft Acquisitions - 2020

Company	Date	Description
<a href="#"><u>ZeniMax Media</u></a>	09-21-2020	<b>ZeniMax Media, the parent company of Bethesda Softworks</b> , one of the <b>largest privately held game developers and publishers in the world</b> . Creators of critically acclaimed and <b>best-selling gaming franchises including The Elder Scrolls, Fallout and many others</b> , Bethesda brings an <b>impressive portfolio of games, technology and talent</b> — as well as a track record of blockbuster commercial success — to Xbox.
<a href="#"><u>Orions Systems</u></a>	07-07-2020	Orions Systems, a pioneer in the development <b>of large-scale, hybrid, smart vision systems focused on “human-in-the-loop” machine teaching</b> combined with <b>services that can adapt to running on a single device or scale to address large scale edge-to-cloud network topologies</b> . The Power Platform and Orions Systems is enabling intelligent retail spaces by leveraging observational data to unlock the full potential of customers, employees, and assets.
<a href="#"><u>CyberX</u></a>	06-22-2020	CyberX will complement the existing <a href="#"><u>Azure IoT security</u></a> capabilities and <b>extends to existing devices including those used in industrial IoT, Operational Technology and infrastructure scenarios</b> . With CyberX, customers can <b>discover their existing IoT assets, and both manage and improve the security posture of those devices</b> . CyberX, customers can see a digital map of thousands of devices across a factory floor or within a building and gather information about their asset profile and vulnerabilities,
<a href="#"><u>ADRM Software</u></a>	06-18-2020	ADRM Software is a <b>leading provider of large-scale industry data models</b> , which are used by large companies worldwide as information blueprints. ADRM's robust industry data models have been built and refined over decades for business-critical analytics. <b>Together with Microsoft Azure, these capabilities will be delivered at scale</b> , enabling our customers to accelerate digital progress, and reduce risk in a variety of major initiatives.
<a href="#"><u>Softomotive</u></a>	05-19-2020	<a href="#"><u>Softomotive</u></a> currently helps more than 9,000 global customers seamlessly <b>automate business processes across legacy and modern desktop applications</b> . Together <b>with Power Automate, WinAutomation will provide customers additional options for RPA desktop authoring</b> so anyone can build a bot and automate Windows-based tasks.
<a href="#"><u>Metaswitch Networks</u></a>	05-14-2020	<a href="#"><u>Metaswitch Networks</u></a> , a leading provider of <b>virtualized network software and voice, data and communications solutions for 5G operators</b> .
<a href="#"><u>Corp.Com</u></a>	04-07-2020	"To help in keeping systems protected we encourage customers to practice safe security habits when planning for internal domain and network names. We released a security advisory in June of 2009 and a security update that helps keep customers safe. In our ongoing commitment to customer security, we also acquired the Corp.com domain."
<a href="#"><u>Affirmed Networks</u></a>	03-26-2020	<b>Affirmed Networks with its leadership in virtualized 5G mobile networks</b> . Affirmed Networks and Microsoft will play an important role in helping advance 5G and deliver new network solutions that offer step-change advancements in speed, cost and security. This combination of technology leaders will enable a host of new opportunities for businesses and society, <b>including autonomous vehicles, smart cities, virtual reality and a range of other smart industry use cases and services</b> .

# Microsoft Acquisitions - 2019



Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless of platform, application or geography as organizations grow, change and digitally optimize</b> .
Semmle	09-18-2019	Semmle's revolutionary <b>semantic code analysis engine allows developers to write queries that identify code patterns in large codebases and search for vulnerabilities and their variants</b> . Semmle is <b>trusted by security teams at Uber, NASA, Microsoft, Google</b> , and has <b>helped find thousands of vulnerabilities in some of the largest codebases in the world</b> , as well as over 100 CVEs in open source projects to date.
JClarity	08-19-2019	The <b>leading contributor to the AdoptOpenJDK project</b> , to support their continued contributions to open source while <b>driving increased performance for Java workloads on Azure</b> . The team, formed by Java champions and data scientists with proven <b>expertise in data driven Java Virtual Machine (JVM) optimizations</b> , will help teams at Microsoft to leverage advancements in the Java platform.
PromotelQ	08-05-2019	The <b>leading provider of vendor marketing technology to online retailers and brands</b> . PromotelQ has pioneered the private marketplace approach to digital vendor marketing. PromotelQ's technology strategically complements Microsoft's current retail advertising offerings, and can enable retailers with a portfolio of technology solutions to modernize their e-commerce platforms and maximize their monetization opportunity. Retailers such as Kroger, Kohl's and Overstock.com — will continue to benefit from the PromotelQ platform and team.
BlueTalon	07-29-2019	A leading provider of <b>Unified Data Access Control solutions for modern data platforms</b> . BlueTalon works with leading Fortune 100 companies to eliminate data security blind spots and gain visibility and control of data. BlueTalon provides a customer-proven, data-centric solution for data access management and auditing across the diverse systems resident in modern data estates.
PullPanda^	06-17-2019	PullPanda^ <b>helps teams create more efficient and effective code review workflows on GitHub</b> . Better code reviews mean better code for software teams of all sizes, whether you work in open source or on a Fortune 500 team. PullPanda^ <b>gives teams a better way to manage reviews, reduce turnaround times, and ship code faster</b> .
Double Fine Productions	06-09-2019	Double Fine is <b>a beacon of creativity and spirit in game development for almost 20 years with classic games like Psychonauts, Brütal Legend and Broken Age</b> . At the root of every game is an emphasis on creating crazy worlds with originality, story and fun. That commitment to creating a unique, player-centric experience is what drew us to the studio, and I'm looking forward to seeing what we create together.
Drawbridge Solutions	05-28-2019	LinkedIn will integrate Drawbridge's technology into our marketing solutions portfolio to help our customers better reach and understand their professional audiences and measure the ROI of their campaigns.
Dependabot	05-23-2019	Dependabot is integrated directly into GitHub and will monitor your dependencies for known security vulnerabilities and automatically open pull requests to update them to the minimum required version. We are rolling out automated pull requests to all accounts with security alerts enabled along with other enhancements in the coming months.



## Microsoft Acquisitions – 2019 & late 2018

Company	Date	Description
Express Logic	04-18-2019	a leader in <b>real time operating systems (RTOS) for IoT and edge devices powered by microcontroller units (MCUs)</b> . Express Logic's ThreadX RTOS has over 6.2 billion deployments, making it one of the most deployed RTOS in the world per <a href="#">VDC Research</a> . This widespread popularity is driven by demand for technology to support resource constrained environments, especially those that require safety and security.
DataSense	02-04-2019	The <b>integration of DataSense into Microsoft's suite of products, we will help educational institutions – and school and district IT leaders in particular – better collect, manage and explicitly control access to their data</b> within Azure to help drive the best possible learning outcomes for their students. Read more at <a href="https://educationblog.microsoft.com/en-us/2019/02/introducing-datasense-to-microsoft-educations-family-of-products/#E6CKQEBUjS35TOH4.99">https://educationblog.microsoft.com/en-us/2019/02/introducing-datasense-to-microsoft-educations-family-of-products/#E6CKQEBUjS35TOH4.99</a>
Citus Data	01-24-2019	a leader in the PostgreSQL community. Citus is an <b>innovative open source extension to PostgreSQL that transforms PostgreSQL into a distributed database, dramatically increasing performance and scale for application developers</b> . Because Citus is an extension to open source PostgreSQL, it <b>gives enterprises the performance advantages of a horizontally scalable database while staying current with all the latest innovations in PostgreSQL</b> . Citus is available as a fully-managed database as a service, as enterprise software, and as a free open source download.
FSLogix	11-19-2018	FSLogix is a <b>next-generation app-provisioning platform that reduces the resources, time and labor required to support virtualization</b> . From small businesses to very large global enterprises across numerous industries, FSLogix solutions enhance customer experience and productivity, while reducing support requirements for IT departments.
XOXCO	11-14-2018	A <b>software product design and development studio known for its conversational AI and bot development capabilities</b> . The company has been paving the way in conversational AI since 2013 and was responsible for the creation of <a href="#">Howdy</a> , the first commercially available bot for Slack that <b>helps schedule meetings, and Botkit, which provides the development tools used by hundreds of thousands of developers on GitHub</b> . Over the years, we have partnered with XOXCO and have been inspired by this work.
Obsidian	11-10-2018	<b>The studio quickly made a name for itself with the Xbox exclusive Star Wars: Knights of the Old Republic II: The Sith Lords</b> . Over the last fifteen years, they have delivered genre-defining RPGs to players on both console and PC through titles including <i>Fallout: New Vegas</i> , <i>South Park: The Stick of Truth</i> , and <i>Pillars of Eternity</i> . Read more at <a href="https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99">https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99</a>
InXile	11-10-2018	<b>Like Obsidian, InXile excels at creating vast worlds for players to explore with titles such as Wasteland 2, Torment: Tides of Numenera, Bard's Tale IV and the upcoming Wasteland 3</b> . Read more at <a href="https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99">https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99</a>
Lobe	09-13-2018	Lobe makes deep learning simple, understandable and accessible to everyone. Lobe's <b>simple visual interface empowers anyone to develop and apply deep learning and AI models quickly, without writing code</b> .

# My Dashboard and Connect me portal <https://aka.ms/abbas>

Pages MSFT\_ESA Abbas\_MSFT Link + Bookmarks

Bing

## Know & Reach Abbas:

- My LinkedIn
- Abbas Kudrati (@askudrati) / Twitter
- My YouTube Channel (new)
- Abbas Kudrati: books, biography, latest update
- Abbas Kudrati, Author at Microsoft Security Blog
- My conference's slides collection
- My monthly newsletter archive.
- Github Repo Collection

## My Short Bio / Profile

### List of cool collections of interesting portals and links

- The History of Microsoft Azure
- Chief Information Security Officer (CISO) Workshop
- Mark Simos's List
- Microsoft 365 Licensing
- Collection of Microsoft Portals Link
- CISO MindMap 2023: What do InfoSec Profession...
- CISO Bookmarks
- John Savill's Technical Training
- Microsoft Cybersecurity Reference Architecture
- Microsoft Service Trust Portal
- Microsoft Defender Mind Map

## Online meeting booking portal for Abbas Kudrati

Online meeting booking portal

## Event speaker request form for Abbas Kudrati

Event speaker request form

### Microsoft Threat Intel Collection

- Global Threat Activity
- Defender for Threat Intelligence
- Microsoft Threat Intelligence Blog
- Microsoft Security Intelligence (@MsftSecIntel)
- Threat Briefs
- Threat Actor Insights and Profiles
- Security Insider Reports (Cyber signals, Nations St...)
- Microsoft Digital Defense Report and Security Int...
- Human-operated ransomware
- Lessons learned from the Microsoft SOC
- Sneak Peak of how Microsoft Runs its Cyber Defe...

## Incident and Crisis Management related info... Shared

- Report a Microsoft issue or vulnerability
- Microsoft Bounty Programs
- Microsoft Security Response Center
- Prepare your security posture for your first incident.
- Responding to your first incident
- Incident response playbooks
- Incident response with Microsoft 365 Defender
- Incident response overview
- Incident Response Reference Guide
- Incident response insights
- Microsoft On The Issues
- What is the Security Update Validation Program?
- Microsoft Active Protections Program
- How the Microsoft Incident Response team helps ...
- NIST Guide for Cybersecurity Event Recovery
- Security Operations Self-Assessment Tool| Micros...
- What's New: SOC Process Framework is Now Live...

## Microsoft Product Ninja Trainings

- Security 101 Training
- Become a Microsoft Sentinel Ninja: The complete...
- Become a Microsoft Defender for Cloud Ninja
- Microsoft-Defender-for-Cloud/Labs at main · Azu...
- Microsoft Defender External Attack Surface Mana...
- Become a Microsoft Defender for Endpoint Ninja
- Become a Microsoft 365 Defender Ninja
- Become a Microsoft Defender for Office 365 Ninja!
- Microsoft Defender for Cloud Apps Ninja Training
- Microsoft Defender for Identity Ninja Training
- Microsoft Defender for IoT Ninja Training
- Microsoft Purview Compliance Manager (MSPCM...
- Azure Network Security Ninja Training
- Chief Information Security Officer (CISO) Workshop
- Microsoft Learn: Build skills that open doors in yo...
- Join Microsoft Security Community

## Microsoft Security Update Guide (Live feed)

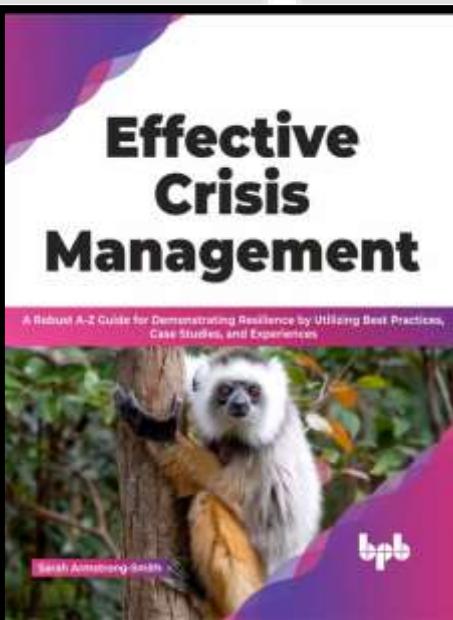
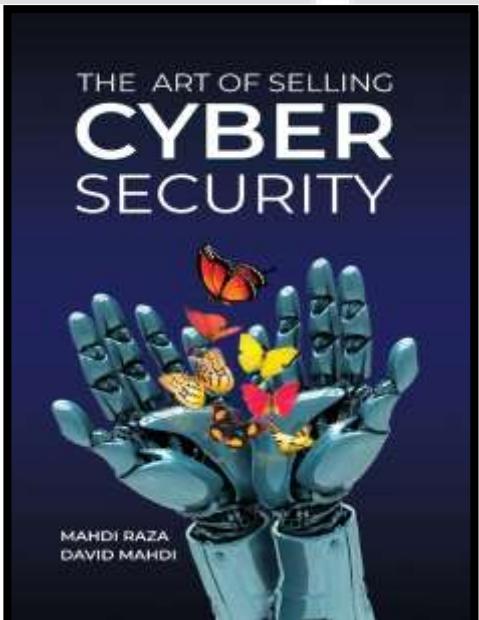
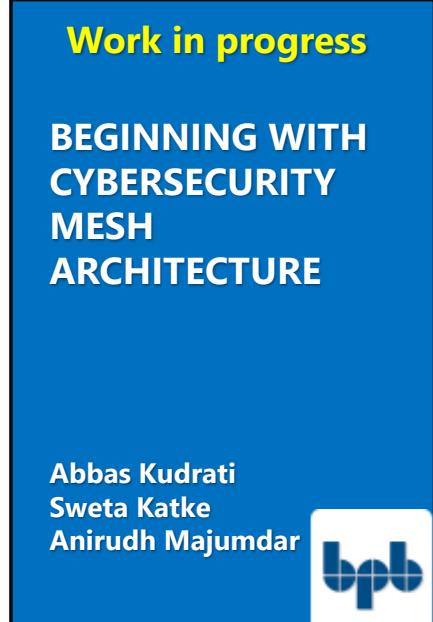
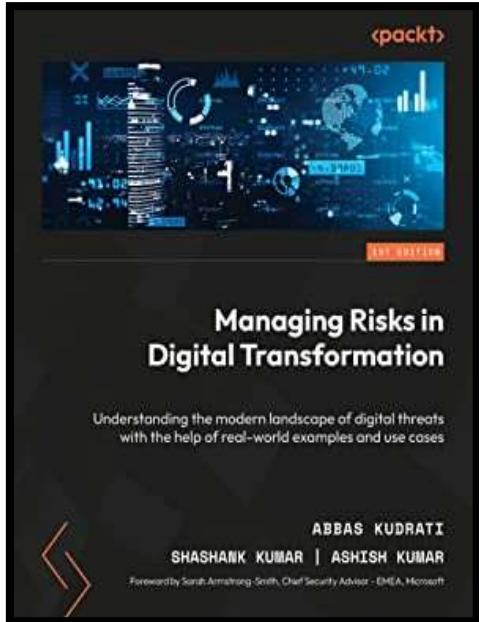
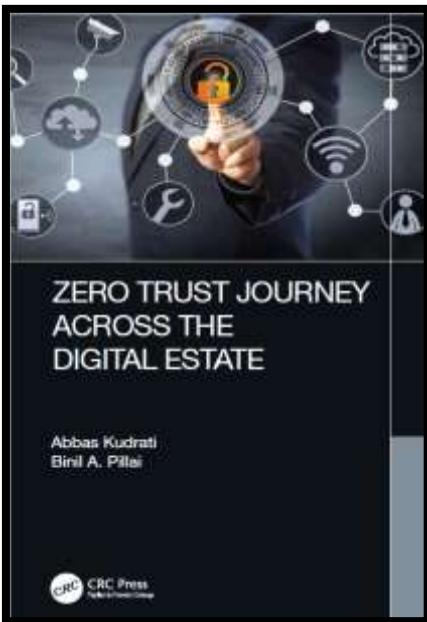
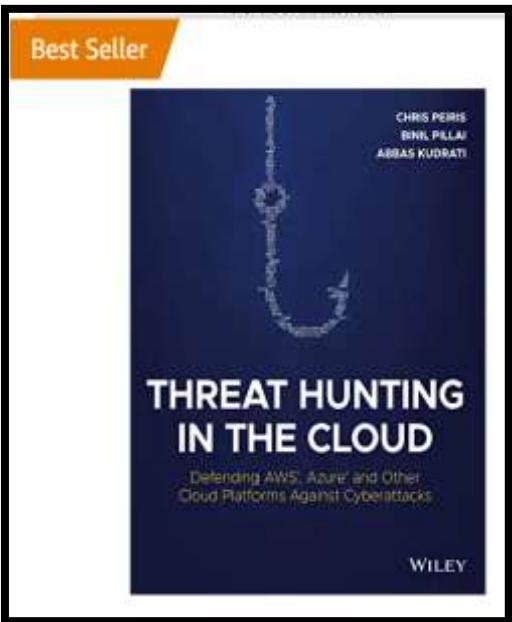
- Chromium: CVE-2023-6112 Use after free in Navigation
- Chromium: CVE-2023-5997 Use after free in Garbage ...
- CVE-2023-36008 Microsoft Edge (Chromium-based) ...
- CVE-2023-36026 Microsoft Edge (Chromium-based) ...
- CVE-2021-1730 Microsoft Exchange Server Spoofing ...

## MSRC & MSTIC (Live feed)

- Microsoft guidance regarding credentials leaked to G...

1/10

# My Publications (Author, Contributor & Tech Editor) <https://www.amazon.com/author/abbask>





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