



Monthly Tech Briefing

JANUARY 2024



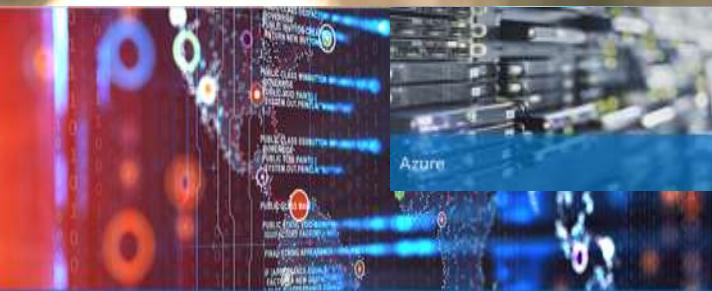
Abbas Kudrati
ASEAN Chief Cybersecurity Advisor
Abbas.Kudrati@microsoft.com
[https://aka.ms/abbas \(new\)](https://aka.ms/abbas)

Microsoft

- [Mobile World Congress \(MWC\)](#)
- [Microsoft Envision Tour](#)
- [Microsoft AI Tour](#)
- [GitHub Universe 2024](#)
- [Microsoft Tech Community Blog depot](#)
- [Microsoft Official Blog](#)
- [TechCommunity Events](#)
- [Microsoft Technical Documentation Hub](#)



Announcements and Tips



New trends with Microsoft Technology

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

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



Security and Compliance

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



Showcase of the month

- [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



Product Lifecycles

Acquisitions and Announcements

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

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.

CES®

CES 2024

January 9 - January 12, 2024

The latest news and announcements from our partners at CES 2024!



MOBILE WORLD CONGRESS 2024

Registration is now open for MWC Barcelona

26 - 29 February 2024
Fira Gran Via, Barcelona

GET YOUR PASS



Barcelona and MWC – a special relationship

MWC's John Hoffman reflects on 18 years of innovation and success for a mutually beneficial public-private partnership.

READ MORE →



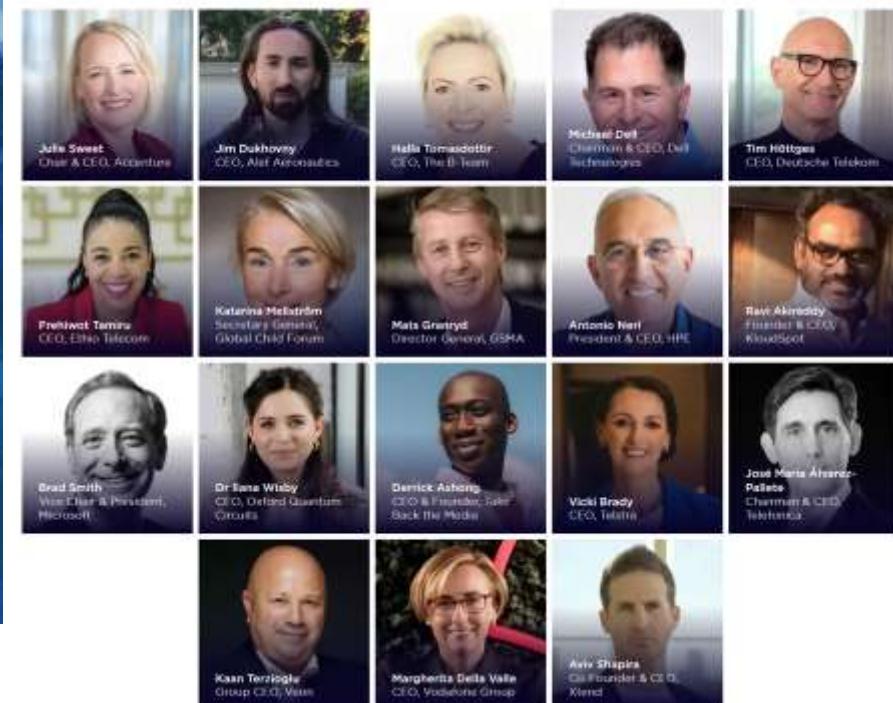
Diversity4Tech

Meet inspirational thought leaders ready to share solutions for equality, diversity and inclusion.

DIVERSITY4TECH

MWC 2024 Keynote Speakers

Hear from the visionaries and innovators creating tomorrow's tech





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](#)

Microsoft Envision



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 >



Microsoft AI Tour

Chart the course of the next technological era at one of our exclusive, one-day events. Fully harness the potential of AI by connecting with thought leaders, attending expert-led technical sessions, and more. Redefine what innovation means for you by unlocking the power of AI.

Register for a tour
location today



San Francisco, USA

For developers

January 11, 2024

[Register today >](#)



New York, USA

For developers

January 25, 2024

[Register today >](#)



Mumbai, India

For decision makers

January 31, 2024

[Register today >](#)



Sydney, Australia

For decision makers and
developers

February 7, 2024

[Register today >](#)



Bengaluru, India

For developers

February 8, 2024

*Registration details coming
soon*



Tokyo, Japan

For decision makers and
developers

February 20, 2024

[Register Today >](#)



Paris, France

For decision makers

March 12, 2024

[Register today >](#)



Paris, France

For developers

March 13, 2024

*Registration details coming
soon*



São Paulo, Brazil

For decision makers and
developers

March 21, 2024

*Registration details coming
soon*



Seoul, South Korea

For developers

April 30, 2024

*Registration details coming
soon*



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

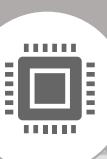
October 29-30, 2024 - San Francisco, CA
Tickets 60% off until November 17, 2023



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%)



Microsoft Security Response Center

Retail and consumer goods ▾

Top threats:

HackTool:Win64/AutoKms
HackTool:Win32/AutoKMS
HackTool:Win32/AutoKMS!pz
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
32/Softcnapp

[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](#) [Vulnerabilities and exploits](#) · Dec 15 · 18 min read

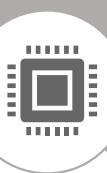
Patching Perforce perforations: Critical RCE vulnerability discovered in Perforce Helix Core Server >

Four new unauthenticated remotely exploitable security vulnerabilities discovered in the popular source code management platform Perforce Helix Core Server have been remediated after being responsibly disclosed by Microsoft. Perforce Server customers are strongly urged to update to version 2023.1/2513900.

[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Social engineering / phishing](#) · Dec 28 · 9 min read

Financially motivated threat actors misusing App Installer >

Since mid-November 2023, Microsoft Threat Intelligence has observed threat actors, including financially motivated actors like Storm-0569, Storm-1113, Sangria Tempest, and Storm-1674, utilizing the ms-appinstaller-URI scheme (App Installer) to distribute malware....



Microsoft compliance offerings

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

Azure, Dynamics 365, and Microsoft 365 compliance offerings

Information for Az

Global

- CSA Benchmarks
- CSA STAR v1.0
- CSA STAR v1.1
- CSA STAR v1.2
- CyberTRM
- ISO 20000-1:12
- ISO 27001
- ISO 27001

[Best practices](#) [Identity and access management](#) · Dec 12 · <1 minute read

Strengthening identity protection in the face of highly sophisticated attacks

Get the latest information on our engineering advancements and continued commitments to secure identities as part of the Secure Future Initiative.

[Best practices](#) [Identity and access management](#) [Microsoft Entra](#) · Jan 10 · 9 min read

5 ways to secure identity and access for 2024

To confidently secure identity and access at your organization, here are five areas Microsoft recommends prioritizing in the new year.

Microsoft Digital Defense Report 2023

How we're building and improving Cyber Resilience

[Download the report](#)

[Download the executive summary](#)

[Best practices](#) [Identity and access management](#) [Microsoft Entra ID](#) · Dec 19 · 6 min read

How Strata Identity and Microsoft Entra ID solve identity challenges in mergers and acquisitions

Along with every merger and acquisition between two companies comes the need to combine and strengthen their IT infrastructure. There is an immediate and profound impact on the identity and access management postures of both companies. Learn how to protect your organization with Strata Identity and Microsoft Entra ID.

As part of our longstanding commitment to create a safer world, Microsoft's investments in security research, innovation, and the global security community include:

65 trillion signals synthesized daily

That is over 730 million signals per second, synthesized using sophisticated data analytics and AI algorithms to understand and protect against digital threats and criminal cyberactivity.



10,000+ security and threat intelligence experts

10,000+ engineers, researchers, data scientists, cybersecurity experts, threat hunters, geopolitical analysts, investigators, and frontline responders across the globe.

4,000 identity attacks blocked per second

4,000 identity authentication threats blocked per second



15,000+ partners in our security ecosystem

15,000+ partners with specialized solutions in our security ecosystem, who increase cyber resilience for our customers



300+ threat actors tracked

Microsoft Threat Intelligence has grown to track more than 300 unique threat actors, including 360 nation-state actors, 50 ransomware groups, and hundreds of others.



100,000+ domains removed

100,000+ domains utilized by cybercriminals, including over 900 employed by nation-state threat actors, have been removed (all time).



135 million managed devices

135 million managed devices providing security and threat landscape insights



All data is based on Microsoft fiscal year 2023 unless otherwise indicated.



Microsoft 365 update information

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

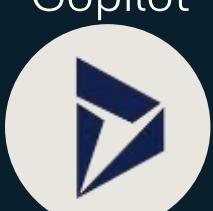
Security Copilot



threat detection,
identification, and mitigation

Copilot for Security

Dynamics Copilot



sales and customer
support

Copilots for Business

GitHub Copilot



code development

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	LINK LINK	Outlook: LINK Teams: LINK PowerPoint: LINK Word: LINK Excel: LINK
	Microsoft Copilot	Generally Available Dec 2023	LINK	LINK
	Windows Copilot	Public Preview	LINK	LINK
	Copilot in Power Apps	Public Preview	LINK	LINK
	Copilot in Power Automate	Public Preview	LINK	LINK
	Copilot in Power Virtual Agents	Generally Available	LINK	LINK
	Copilot in Power Pages	Private Preview		
	Microsoft Sales Copilot	Generally Available Q1 2024	LINK	LINK ; Guided: LINK
	Microsoft Service Copilot	Generally Available Q1 2024	LINK	LINK
	Copilot in Dynamics 365 Customer Service	Generally Available Dec 2023	LINK	LINK
Business Applications	Copilot in Dynamics 365 Field Service	Public Preview	LINK	LINK ; Guided: LINK
	Copilot in Dynamics 365 Customer Insights	Public Preview	LINK	Guided 1: LINK ; Guided 2: LINK
	Copilot in Dynamics 365 Business Central	Public Preview	LINK	LINK
	Copilot in Dynamics 365 Supply Chain Center	Public Preview	LINK	LINK

Last updated 23/11/2023. Use info links provided for latest availability status.

Amplify human ingenuity with a copilot for everyone

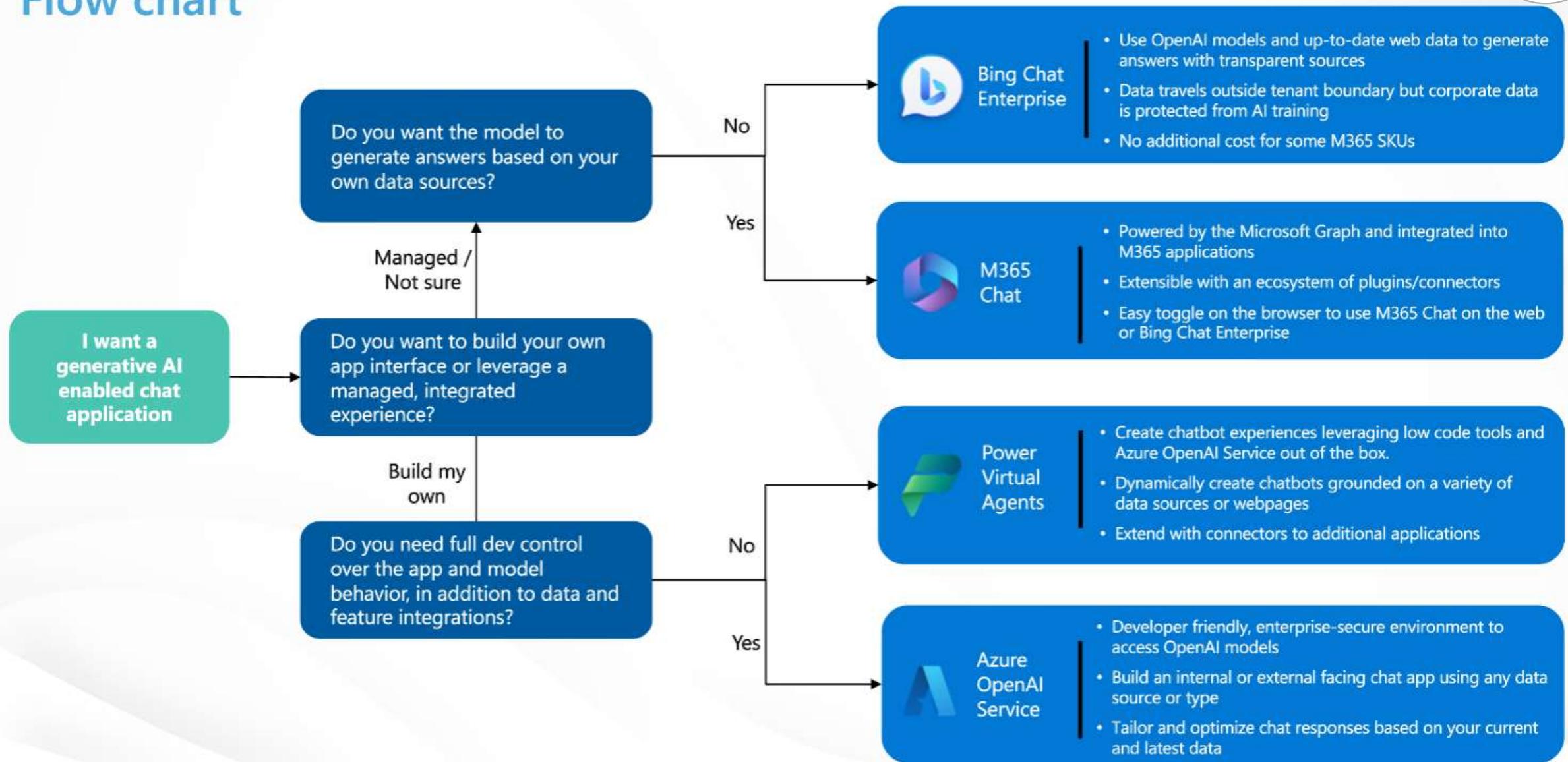


Solution Area	Copilot	Availability	Info	Demo
Digital & App Innovation	Microsoft Copilot on Azure	Private Preview (Sign Up)	LINK	
	GitHub Copilot	Generally Available	LINK	LINK
	GitHub Copilot X	Private Preview	LINK	LINK
Data & AI	Copilot stack with Azure AI	Generally Available	LINK	LINK
	Copilot in Power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



Generative AI chat offerings with Microsoft

Flow chart



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

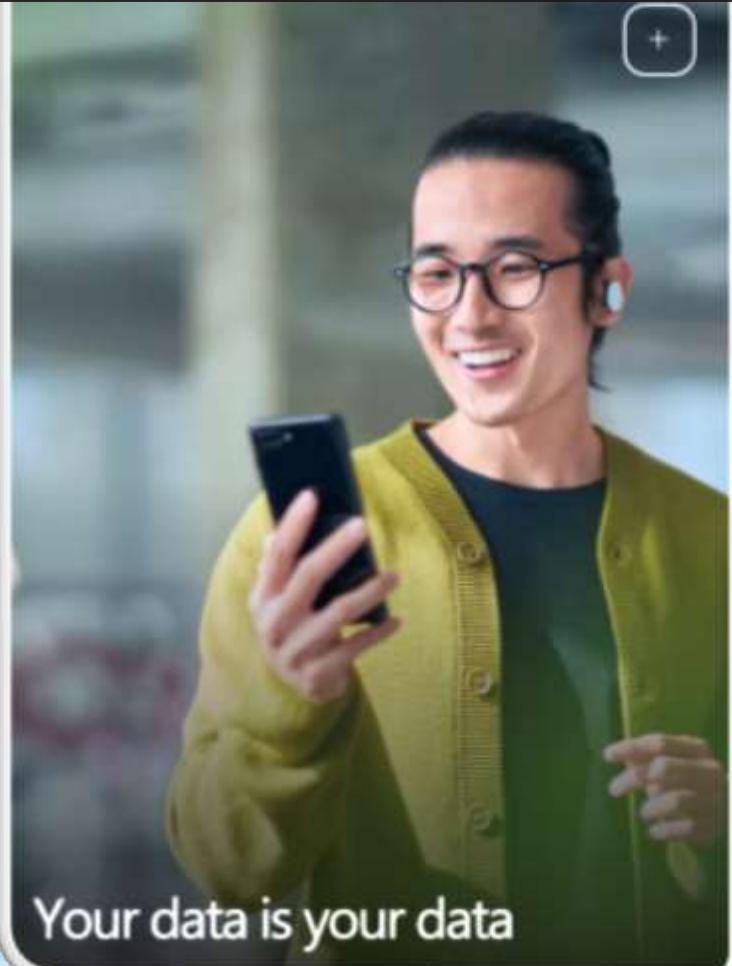
See how to get started using Microsoft Copilot Studio in your organization.

Microsoft AI runs on Trust

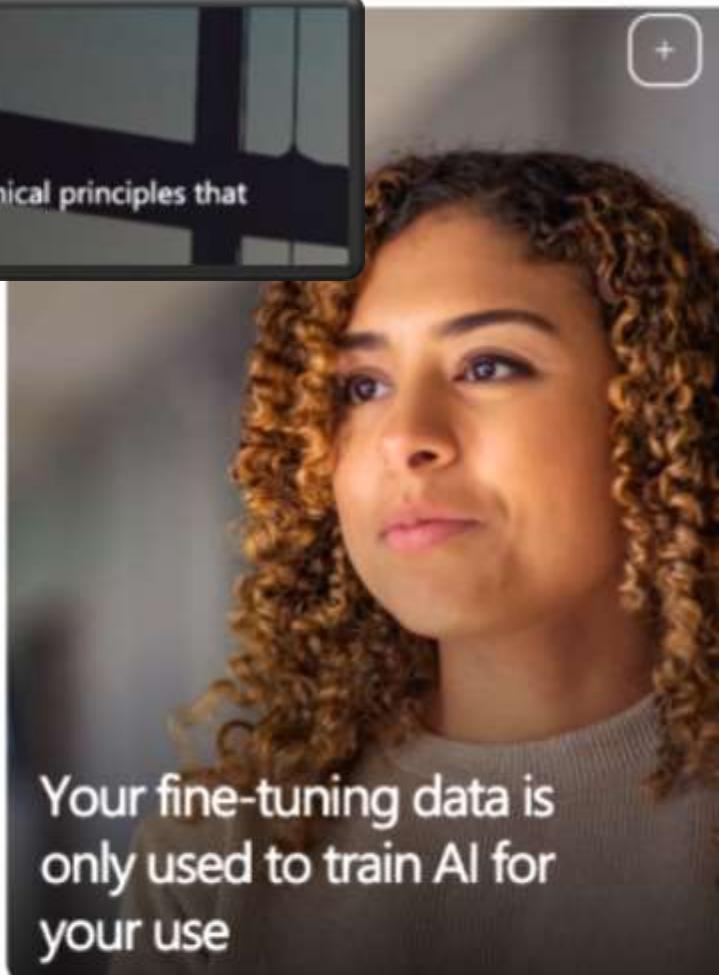


Responsible AI

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



Your data is your data

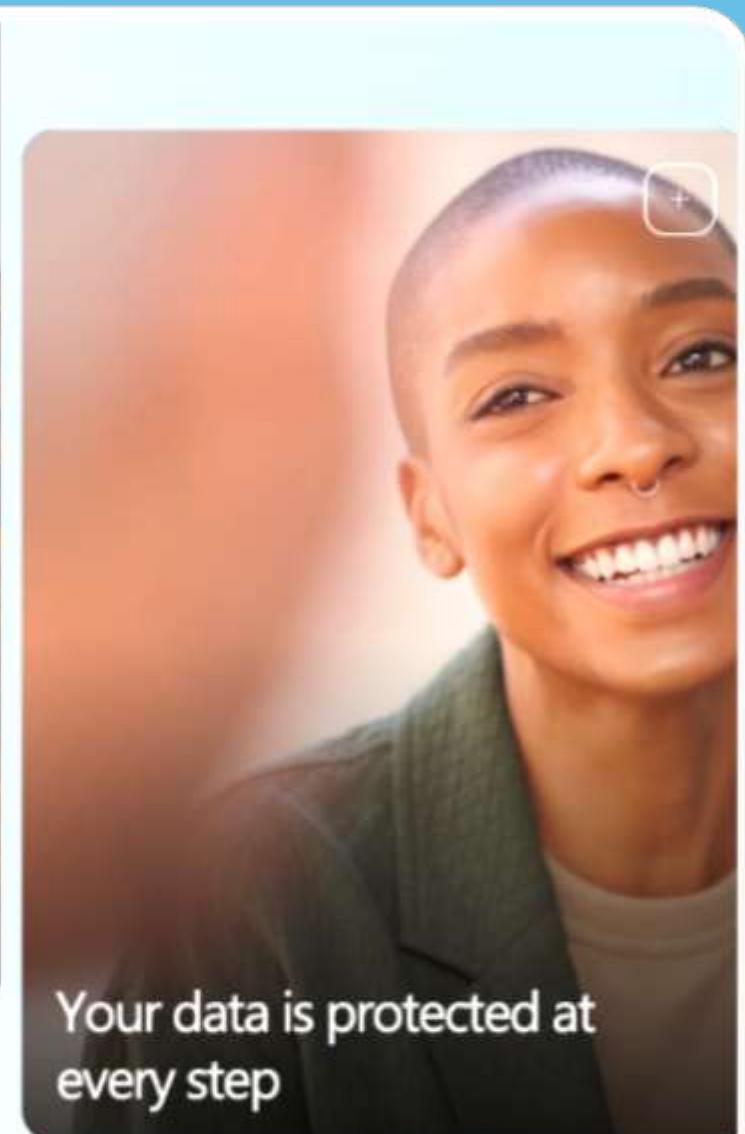


A close-up portrait of a woman with voluminous, curly, reddish-brown hair. She is looking slightly to her left with a neutral expression. The background is a soft, out-of-focus light color.

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

- ❖ [Upcoming changes to Windows Login](#)
- ❖ [Identify users who have over privileged and unnecessary roles.](#)
- ❖ [Introducing PivotTables on iPad](#)
- ❖ [A new way to debug formulas from Excel Labs](#)
- ❖ [Windows IT Pro Blog](#)
- ❖ [Microsoft Entra \(Azure AD+\) Blog](#)
- ❖ [Microsoft OneDrive Blog](#)
- ❖ [Microsoft SharePoint Blog](#)
- ❖ [M365 Technical Documentation](#)



Microsoft 365 Admin Digest
Your monthly IT admin blog for all things Microsoft 365.

Microsoft 365 Admin Monthly Digest – Jan 2024
Published on Jan 09 2024 09:00 AM
Copilot AMA, enabling feedback for Copilot, and the latest for Microsoft 365 admins

Extend, enrich, and customize Copilot for Microsoft 365

Plugins and Microsoft Graph connectors expand your organization's AI-powered productivity, skills, and creativity.

[Read Copilot extensibility docs](#)

Customer stories Intune Enterprise · Published December 5, 2023 · 5 min read

3 reasons why now is the time to go cloud native for device management >

Since the start of Microsoft Intune in 2010, we have been working on and iterating toward simplified Windows management, in part by moving infrastructure from on-premises to the cloud. Discover these three recent customer stories to better understand the full value of becoming cloud native.

Join the Microsoft 365 Technology Adoption Program (TAP)

Learn about what's on our product roadmaps, share feedback on work in development, and engage with Microsoft 365 product groups.

[Join TAP today >](#)

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](#)



SharePoint: Microsoft 365 Archive for Sites

Preview Available: November 2023
Rollout Start: March 2024

Visio: Containers in Visio for the web [Visio Plan 1, Plan 2]

Rollout Start: March 2024

Microsoft Purview compliance portal: Insider Risk Management - Sequence detections for obfuscation involving excluded events

Preview Available: September 2023
Rollout Start: February 2024

Outlook: From the new Outlook for Windows, open Word, Excel, and PowerPoint attachments in desktop apps

Rollout Start: January 2024

> Microsoft Teams: Unified fun picker

Rollout Start: December 2023

> Microsoft Teams: Simplified compose box

Rollout Start: December 2023

> Microsoft OneDrive: Open in App

Preview Available: October 2023
Rollout Start: December 2023

> Microsoft Teams: Walkie Talkie: automatically listen to multiple channels

Rollout Start: December 2023

> Microsoft Teams: Manage Microsoft Surface Hub as a Teams Rooms on Windows device

Rollout Start: December 2023

> Microsoft Teams: Synced updates for Microsoft Teams Rooms on Android devices and paired consoles.

Rollout Start: December 2023

> Microsoft Stream: Add a survey, poll, or quiz to a video at specific times

Rollout Start: December 2023

> Microsoft Teams: Teams Phone and Teams Rooms licenses in device store

Rollout Start: December 2023

> Microsoft Teams: Domain-specific search

Rollout Start: December 2023

> Microsoft Teams: New Teams meeting templates added to Outlook Teams add-in

Rollout Start: December 2023

> Microsoft Viva: Updated post type designs in Viva Engage

Rollout Start: December 2023

> Microsoft Syntex: Optical Character Recognition in OneDrive and SharePoint supports multi-page PDF and TIFF files

Preview Available: October 2023
Rollout Start: December 2023

> Microsoft Teams: Decorate your background (Premium)

Rollout Start: December 2023

> Microsoft Teams: Remove items from your activity feed

Rollout Start: December 2023

> Microsoft 365 admin center: Integrated Apps in M365 admin center for managing apps across M365 suite products

Rollout Start: December 2023

> OneNote: New 'notes' tab when creating a standard Teams channel

Rollout Start: December 2023



Microsoft Teams Blog:



What's New in Microsoft Teams | December 2023

What's New in Microsoft Teams | December 2023

[Steve Stein](#) on Jan 03 2024 08:30 AM

Happy New Year! Welcome to our December 2023 update of What's New in Microsoft Teams. This month, we are excited to show...

New for This Month:

- [New Teams for Virtual Desktop Infrastructure \(VDI\)](#)

Chat and Collaboration:

- Custom channel announcement background
- Loop components in channels
- An improved search experience in chat and channels
- Chat button on missed call activity
- [Files app updated to OneDrive app experience in Teams](#)
- Domain-specific search
- Copilot in chat and channels conversation history

Webinars and Town Halls:

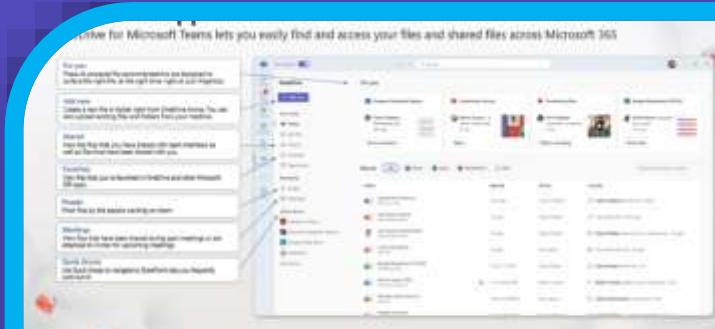
- New webinar and town hall templates added to Outlook Teams add-in

Platform:

- Teams AI Library
- Resources-specific consent apps
- Click-to-Chat with Teams App Publishers

Teams Phone, Rooms, and Devices:

- [Calling shortcuts for Teams Phone](#)
- [Group chat call confirmation](#)
- [Teams Phone Mobile now available in Norway](#)
- Enable People Recognition with an intelligent camera
- Automatic updates for the Teams app on Android-based Teams devices
- Manage Microsoft Surface Hub as a Teams Rooms on Windows device
- Teams Phone and Teams Rooms licenses in device store
- [Logitech Sight](#)
- [Logi Dock Flex](#)
- [Neat Board 50 for Microsoft Teams](#)
- [Nureva HDL410 system](#)
- [Lenovo ThinkSmart View Plus Monitor](#)



Effective file management with the next generation of...

[Noga Ronen](#) on Dec 14 2023 11:20 AM

Microsoft OneDrive is at the core of your files experience in Microsoft 365, storing and protecting files as well as pow...



Year in review: How Microsoft Copilot, Microsoft Teams,...

[Srinivas Raghavan](#) on Dec 20 2023 08:00 AM

As 2023 winds down, it's incredible to reflect on all the progress we've made across the Microsoft 365 ecosystem this ye...

Collaborative Apps:

- [Autopilot Accounts Payable AI](#)
- [Carbon Neutral Club Inc](#)
- [Datadog](#)
- [emSinger application](#)
- [Neo Agent](#)
- [Teamcenter](#)
- [Trello](#)
- [Zendesk](#)

Frontline Workers:

- Tasks in my area in Teams mobile
- Full name display in Shifts app
- Graph API for day notes in Shifts app
- Improved Shifts privacy settings
- Import and export time off and open shifts via Excel
- Deploy Shifts at scale
- Deploy frontline dynamic teams



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

[January 2024 Viva Glint newsletter](#)

Explore the January Viva Glint newsletter!

[Get Your Complimentary Copy of the 2023 Gartner® Market...](#)

We are thrilled to share that Gartner® named Microsoft Viva as

[Microsoft Copilot in Viva Glint: Bringing AI to Comment...](#)

We are excited to announce the addition of Copilot in Viva Glint...

[Introduction to new advance API features in Viva Connec...](#)

We are excited to announce the availability of new advance API featur...

[Introducing the Community Creation API for Viva Engage...](#)

To kick off the New Year, we're elated to announce that the Commu...

[People Science Predictions: The impact of AI on the emp...](#)

As Microsoft Viva People Scientists, we spend a lot of time hypot...

[Moderating content in Viva Engage](#)

Dive into how moderation tools in Engage are designed to enhance...

[Finding Harmony: KPIs, OKRs and Lessons from Iced Tea](#)

KPIs and OKRs can do more than simply co-exist. They can and shou...

Microsoft Power Platform :: Power Platform Blog



Power BI December 2023 Feature Summary

■ December 12, 2023 by [Saveen Reddy](#)

Welcome to the Power BI December 2023 update. We've got a lot of great features this month. Here are some key highlights: Learn how you can skill up and get ready for the upcoming Fabric Analytics Engineer certification with the Cloud Skills Challenge. Join us at the first annual Microsoft Fabric Community Conference (Mar 26-28 2024). We've made lots of improvement for reporting, for example there are many more options for styling your column and bar charts. If you are a fan of our PowerPoint add-in, you'll be happy to know we've made it easier to find and insert Power BI content into your PowerPoint presentations. Developers can now handle with git merge conflicts directly in the workspace.

[READ MORE](#)

Reflecting on a year of empowerment: Microsoft Power Up Program's first-year recap

 [Dimpal Gandhi](#), Principal PM Lead, Power Up Program, Thursday, December 21, 2023

The inaugural year witnessed inspiring success stories from the community, with impacts of newfound skills felt globally. As the program enters its second year, it introduces a new feature – Group Learning, which allows colleagues, friends, and family to challenge each other on a learning journey to become low-code app makers. The program recognized 13 Power Up champs with the Star Champ badge for their exemplary commitment and dedication. This badge is awarded to champs who have contributed more than 15 hours over the last 6 months across various volunteering categories. The program encourages building an application with Microsoft as a New Year's resolution.

[» Read more](#)

AI Builder GPT Prompts are generally available

 [Gwaelael Begg](#), Group Product Manager - AI Builder, Tuesday, December 19, 2023

We are excited to announce that GPT Prompts with Prompt Builder, a new feature of AI Builder, is now generally available! GPT Prompts are powerful tools that enable you to add Generative AI capabilities to your automated workflows.

[» 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](#)

DAX query view introduces new INFO DAX functions

[Analysis Services](#) [Features](#) [Power BI](#) [Semantic model](#)

■ December 21, 2023 by [Zoe Douglas](#)

DAX query view, released in public preview last month, in the December 2023 Power BI Desktop release has exciting updates including the new INFO DAX functions and improvements to the Update model CodeLens.

Announcing seamless Dataverse image and file support in canvas offline apps

 [Tristan Debove](#), Principal Program Manager, Tuesday, December 12, 2023

Announcing Files and Images offline in Public Preview

[» Read more](#)



Visit our product blogs

[Power BI](#)

[Power Automate](#)

[Power Virtual Agents](#)

[Power Apps](#)

[Power Pages](#)

Power Platform and Dynamics

Roadmaps and Release plans:



IT Professionals

[News and product updates](#)

[Dynamics 365 Customer Insights](#)

• Jan 9 • 5 min read

Transition to real time journeys – the time is now >

Dynamics 365 Customer Insights and Dynamics 365 Marketing are coming together as one offering named Dynamics 365 Customer Insights, an AI driven solution which revolutionizes your customers' experiences.



Trigger a flow with a Power BI data-driven alert

By Microsoft

Automated
150646



Power Apps button

By Microsoft

Instant
537651



IT Professionals

[Tips and guides](#)

[Dynamics 365 Customer Service](#)

• Jan 4 • 5 min read

Knowledge management best practices for Copilot ingestion >

Before agents can use Copilot to answer questions and draft emails, you need to ensure Copilot is using accurate knowledge content.



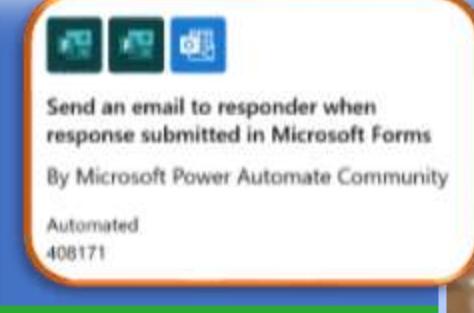
IT Professionals

[Dynamics 365 Field Service](#)

• Dec 20 • 2 min read

What's new in Dynamics 365 Field Service Mobile app in 2023 Wave 2 >

What's new in Dynamics 365 Field Service Mobile app in 2023 Wave 2. Discover the latest updates and enhancements to the Field Service Mobile app that will help you deliver better service experiences to your customers.



Send an email to responder when response submitted in Microsoft Forms

By Microsoft Power Automate Community

Automated
408171



IT Professionals

[Dynamics 365 Field Service](#)

• Dec 18 • 2 min read

Experience the power of Copilot in Dynamics 365 Field Service in the mobile application >

Field Service mobile is a powerful application that helps frontline workers manage their tasks, access information, and communicate updates with the back office.



IT Professionals

[Dynamics 365 Customer Service](#)

• Jan 5 • 2 min read

Orchestrate your WFM solution with Dynamics 365 Customer Service >

WFM holds together the intricate machinery of customer support, ensuring operational efficiency and exceptional customer experiences.



Save Office 365 email attachments to specified OneDrive for Business folder

By Microsoft Power Automate Community

Automated
245326

Developer and GitHub

GitHub Blog and Changelog

- GitHub Support Portal will now require login
- You can pick your account during device flow login
- Canva is now a GitHub secret scanning partner
- Codespaces host image upgrades Docker and compose
- Code scanning is now more adaptable to your codebase with CodeQL threat model settings for Java
- Code scanning default setup is now available for self-hosted runners on GitHub.com
- Log in to multiple GitHub accounts with the CLI
- EMU SCIM audit log, metadata, and sync status enhancements :: Generally Available
- New Markdown extension: Alerts provide distinctive styling for significant content
- CodeQL 2.15.4: Performance Improvements and Updated Language Support



Microsoft Developer Blogs:

- .NET Framework January 2024 Security and Quality Rollup
- MSVC ARM64 optimizations in Visual Studio 2022 17.8
- Announcing Fluid Framework 2.0 :: Beta
- Announcing the Azure Migrate application and code assessment tool for .NET
- Safer recursion in F#
- Visual Studio Performance Highlights Delivered in 2023
- Size, Alignment, and Memory Layout Insights for C++ Classes, Structs, and Unions
- #include Diagnostics in Visual Studio

Our move to generated SDKs

GitHub SDKs: software generated meets hand curated.

Nick Floyd January 3, 2024

Release Radar · End of 2023 Edition

Hacktoberfest has wrapped up, GitHub Universe has come to a close, and our community has been super hard at work. All the while people enjoyed turkey over Thanksgiving in the...

Michelle Mannering December 19, 2023

Education

GitHub Certifications are generally available

Unlock your full potential with GitHub Certifications! Earning a GitHub certification will give you the competitive advantage of showing up as a GitHub expert.

Kedasha Kerr January 8, 2024

GitHub Copilot Chat now generally available for organizations and individuals

All GitHub Copilot users can now enjoy natural language-powered coding with Copilot Chat at no additional cost.

Shuyin Zhao December 29, 2023

Frenemies to friends: Developers and security tools

When socializing a new security tool, it is possible to build a bottom-up security culture where engineering has a seat at the table. Let's explore some effective strategies witnessed by the GitHub technical sales team to make this shift successful.

Shelby Gluck January 8, 2024

5 ways to make your DevSecOps strategy developer-friendly

Developers care about security, but poorly integrated tools and other factors can cause frustration. Here are five best practices to reduce friction.

Nick Liffen January 5, 2024



How we organize and get things done with SERVICEOWNERS

Take CODEOWNERS and GitHub teams to the next level. Learn about how GitHub engineering solves the age old problem of who owns what.

Max Beizer December 19, 2023

Default setup now includes scheduled scans and supports all languages covered by CodeQL

We've added new improvements to default setup, including automatically scheduling scans on repositories and support for all CodeQL covered languages.

Walker Chabbott December 13, 2023

From migration tools to updates to Enterprise Managed Users, what's new in GitHub Enterprise

Read a round-up of the exciting, new innovation coming from GitHub Enterprise.

Van Ly & Melody Mileski & Rachel Siemens December 19, 2023

Office Developer Blogs and Microsoft 365 Dev Center



Custom encryption with customer owned keys now generally available

January 5, 2024

 Richa Misra

At Ignite, we introduced a brand-new security capability to ensure additional data security measures for your Microsoft 365 datasets. We are happy to share that it is now generally available.

Deprecation of entity-based contextual Outlook add-ins

January 5, 2024

 Sam Ramon

Today, we're announcing that entity-based contextual add-ins in Outlook will be deprecated in Q2 of 2024.

Best design practices for Word, Excel, and PowerPoint add-ins

January 2, 2024

 Skylar Pan

Take a deep dive into the strategies to design an effective Office add-in.

New framework creates a more streamlined process for ISVs

December 20, 2023

 Tony Balkan

Microsoft 365 Certification has been updated with a refreshed control set featuring the latest security and compliance attributes for apps built to run on Teams, SaaS, and Microsoft 365 add-ins.

Write simpler, faster code with the new Microsoft Graph Java SDK v6

December 18, 2023

 Maisa Rissi

The Microsoft Graph Java SDK is a client library that lets you connect and retrieve data from any of the supported Microsoft services that are available on Microsoft Graph API.

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

- [Deploying the Microsoft Teams UI templates sample app](#)
- [Meeting Token Generator](#)
- [Introducing the mobile optimized framework for Microsoft Teams apps](#)
- [Announcing Fluid Framework 2.0 Beta](#)
- [Sequential workflow adaptive cards C#](#)
- [In-Meeting Document Signing](#)



Design beautiful user experiences using Fluent UI



Enrich your app with data and intelligence from Microsoft Graph



Build powerful apps with Outlook and Office

[Get started >](#)

[Get started >](#)

New trends with Microsoft Technology



Updates from Microsoft Industry Blogs



January 03, 2024 • 7 min read

Generative AI provides a big boost to the telecommunications industry >

Partner with Azure OpenAI Service to transform your telco organization with AI-driven solutions for enhanced operations, innovative services, and exceptional customer experiences. The service offers many opportunities to explore AI-driven solutions for your organization.



Dec 19 • 4 min read

Empower the banking employee experience with generative AI >

Helping banks improve productivity through better teamwork, insights, and communications is a key focus area for Microsoft, and something Azure OpenAI Service and our rapidly evolving copilot offerings are well positioned to enable.



Dec 18 • 5 min read

5 reasons to move to hyperscale cloud now >

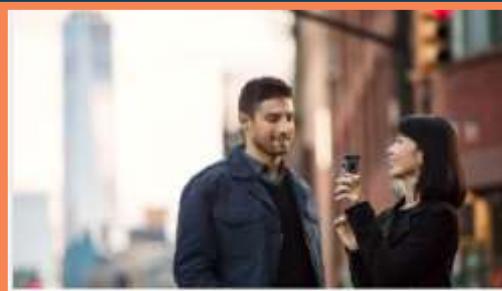
As we delve deeper into technological advancements, the Microsoft Defense and Intelligence team understands that AI stands at the forefront, driving innovation and transformation across various sectors.



Jan 9 • 9 min read

Accelerate automotive transformation with new solutions from Microsoft >

In 2024, we are adding four new reference architectures to our industry portfolio. These new resources help our partner ecosystem support their customers in driving the future of mobility across research and development, manufacturing, supply chain and logistics, marketing, sales, and aftersales.



Government • Dec 19 • 4 min read

The future of urban innovation revealed at Smart City Expo World Congress 2023 >

Microsoft was proud to be a global sponsor at the 2023 conference, the world's biggest and most influential event on urban innovation. We met with leaders and representatives of the more than 800 cities, along with people from research and academia, technology companies of all stripes, media, and more.



Dec 14 • 5 min read

Microsoft solutions are transforming the mining industry with data and AI >

To accelerate transformation and achieve rapid benefits from new advances in technology, miners can adopt solutions like the Microsoft Intelligent Data Platform. With a single, flexible platform for databases, analytics, AI, and data governance, mining organizations can quickly improve agility and maximize the value of their data while minimizing cost and complexity.



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 >](#)



Renewable energy procurement training

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

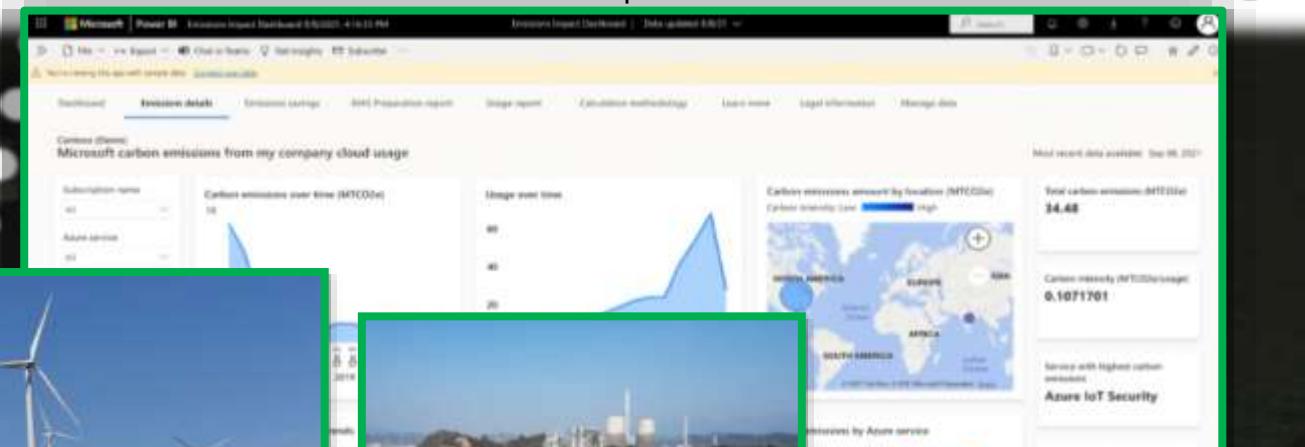
[Get started >](#)

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.

[App for Azure >](#)

[App for Microsoft 365 >](#)



Dec 18 • 6 min read

Accelerate decarbonization in the chemical, pharmaceutical, and semiconductor industries >

The manufacturing industry is under a lot of pressure to advance sustainability commitments, with enormous challenges given modern lengthy, complex, and geographically diverse production operations and supply chains. Let's take a look at one of the key sustainability strategies: decarbonization, and what it means for the manufacturing industry.



[Sustainability >](#) Dec 18 • 4 min read

Microsoft as sustainability customer zero: Managing Scope 3 emissions >

In this second part of our customer zero blog series, we share how we've used technology to advance our Scope 3 progress and how we've engaged with our suppliers to drive their own accountability and progress.

Azure



Azure Updates

Azure Blog



Published December 19, 2023 • 13 min read

What's new in Azure Data, AI, & Digital Applications: Modernize your data estate, build intelligent apps, and apply AI solutions >

By Jessica Zhang, Corporate Vice President, Data, AI, and Digital Applications, Product Marketing

This month, I'm pleased to expand this blog's scope and bring in what's new for digital applications for a holistic look at everything we're delivering to help customers modernize their data estate, build intelligent applications, and apply AI technologies to help achieve their business goals.

AI + Machine Learning, Azure AI, Azure OpenAI Service, Best practices, Customer stories Published December 14, 2023 • 4 min read

Azure OpenAI Service powers the Microsoft Copilot ecosystem >

By Andy Beutman, Senior Product Marketing Manager, Azure AI

Copilot—powered by Microsoft Azure OpenAI Service—allows you to simplify how you design, operate, optimize, and troubleshoot apps and infrastructure from cloud to edge.

AI + Machine Learning, Azure AI, Azure OpenAI Service, Azure Blob Storage, Azure Functions, Azure IoT, Azure Stream Analytics, Customer stories Published December 13, 2023 • 5 min read

Key customer benefits of the Microsoft and MongoDB expanded partnership >

By Jessica Zhang, Corporate Vice President, Data, AI, and Digital Applications, Product Marketing

Microsoft's mission is to empower everyone to achieve more, and we know that our customers like using MongoDB to build applications. In year one of our strategic partnership, we collaborated with MongoDB to make it even easier for our joint customers to do more with Microsoft services and MongoDB Atlas on Azure.

AI + Machine Learning, Announcements, Azure Government, Azure Orbital Ground Station, Developer Tools, Microsoft Azure portal, Events Published December 11, 2023 • 6 min read

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

By Zach Kremer, 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.

Updates & Announcements

- ❖ [Azure Chaos Studio](#) :: Generally Available
- ❖ [Premium SSD v2 and Ultra disks support with Trusted launch](#) :: Generally Available
- ❖ [Azure Data Explorer connector for Apache Flink](#) :: Public Preview
- ❖ [Zone Redundant Storage for Azure Disks is now available in more regions](#) :: Generally Available
- ❖ [Azure Stream Analytics No-code Editor: new features and improvements in Jan 2024](#)
- ❖ [Azure Stream Analytics in seven more regions](#) :: Generally Available
- ❖ ["As on-premises" sizing in Azure Migrate SQL Discovery and Assessment](#) :: Generally Available
- ❖ [Azure Chaos Studio supports new faults for Service Bus](#)
- ❖ [Red Hat Enterprise Linux 8.9 now supported on Azure Virtual Machines](#) :: Generally Available
- ❖ [Crash Consistent VM Restore points](#) :: Generally Available
- ❖ [Store and manage medical imaging data with Azure Data Lake Storage](#) :: Preview
- ❖ [Intel TDX based confidential VMs now available in the Azure portal, Azure CLI and ARM templates](#) :: Public Preview
- ❖ [Azure Event Grid releases public preview support for events from services like Microsoft Entra ID, Microsoft Outlook, and Microsoft Teams.](#)
- ❖ [IT Service Management Connector \(ITSMC\) is now certified with ServiceNow Vancouver version](#)
- ❖ [Azure Functions support on Apple Silicon Macs](#) :: Generally Available

Azure Services Directory



Azure AI Search

Deliver accurate, hyper-personalized responses in your Gen AI applications

Azure AI Search

- ❖ Leading information retrieval and search platform for RAG
- ❖ Reduce the complexity of data ingestion and search-index creation through integration with Azure storage solutions and simple RESTful APIs and SDKs.
- ❖ [Use advanced deep-learning models](#) from Microsoft Research and Bing to provide contextual and relevant results in your apps..
- ❖ [Knowledge Mining](#): Combine Azure AI Search with [Azure OpenAI Service](#) to apply the most advanced AI language models to your search solutions using your own data.
- ❖ Use state-of-the-art vector representations
- ❖ Store, index, and search vector embeddings for sentences, images, audio, graphs, and more
- ❖ Tailor the search experience to meet the unique requirements of your organization.



Microsoft Playwright Testing

Scalable end-to-end modern web app testing service

Microsoft Playwright Testing :: Preview

- ❖ Run Playwright tests with browser and OS combinations hosted in the cloud
- ❖ [Distribute tests across browsers with higher parallelization](#) in CI to run test suites faster.
- ❖ [Ensure apps work as expected for any user](#). Add OS-browser combinations in your test matrix without slowing execution.
- ❖ [Set up continuous end-to-end testing with GitHub Actions](#), Azure Pipelines, and other CI tools.
- ❖ [Learn more about using the Playwright Testing service](#) for your web application testing.
- ❖ [Scale your tests beyond the processing power](#) of your developer workstation, local infrastructure, or CI agent machines.
- ❖ Get support for the latest OSS framework features at scale



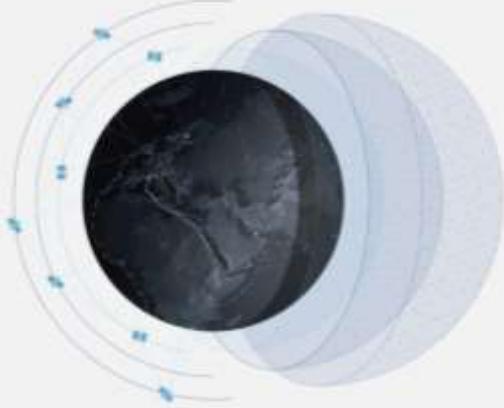
Azure Cost Management

Monitor, allocate, and optimize cloud costs with transparency, accuracy, and efficiency

Azure Cost Management

- ❖ Do more with less. Reduce costs and increase the efficiency of your cloud investments.
- ❖ [AI-powered functionality in Cost Management ::Preview](#)
- ❖ [Track usage, monitor expenses, isolate trends, and benefit](#) from forecasting
- ❖ [Implement governance policies](#) for effective cloud cost management and increase accountability with budgets and cost allocation.
- ❖ [Maximize the return on your cloud investment](#) by using continuous cost optimization and industry best practices.
- ❖ Learn how to use [Microsoft Cost Management APIs](#) to add cloud cost data to your applications
- ❖ [Optimize your costs from a consolidated set of resources](#) available to you in one place

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.

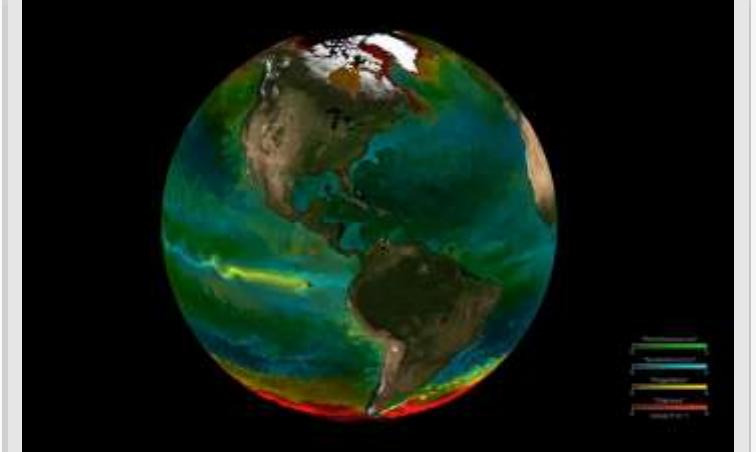


Azure Orbital Ground station

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

A Planetary Computer for a Sustainable Future

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.

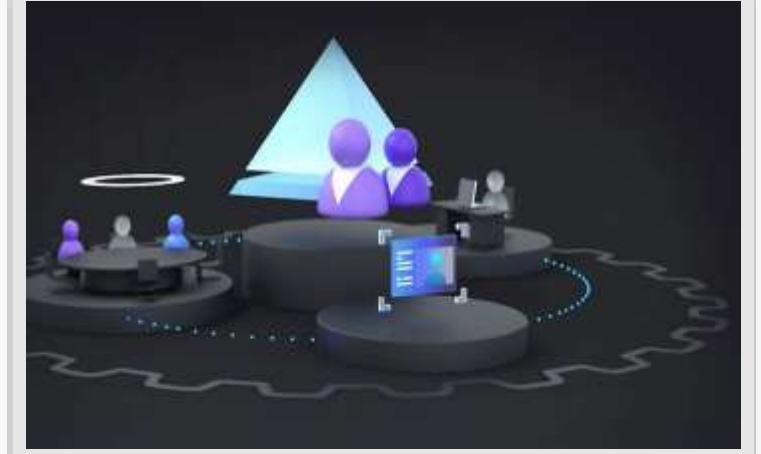


Azure AI Studio

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](#)



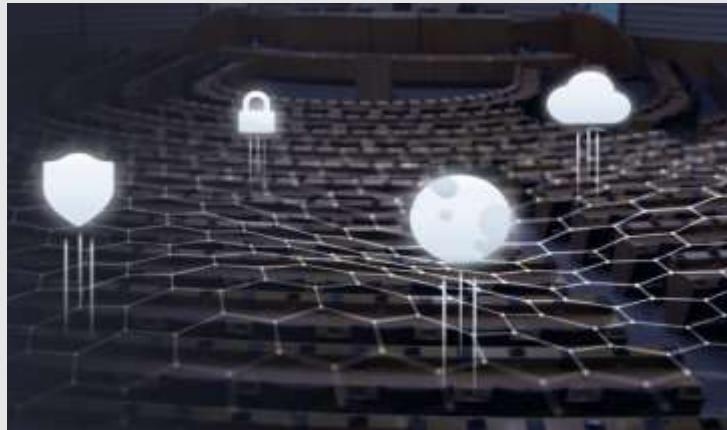
Azure AD is now Microsoft Entra

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

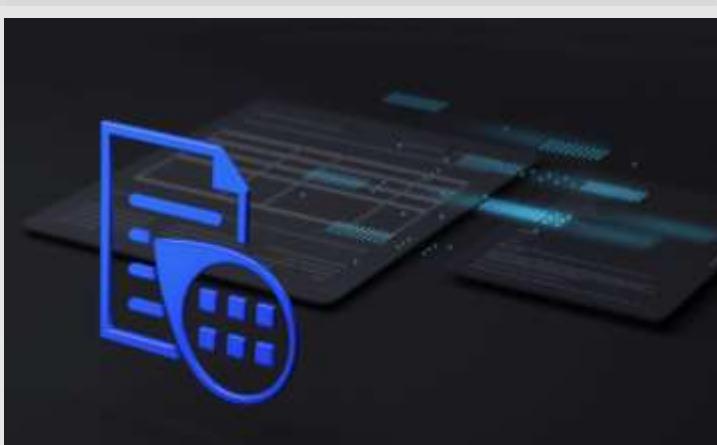


Cloud for Sovereignty

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

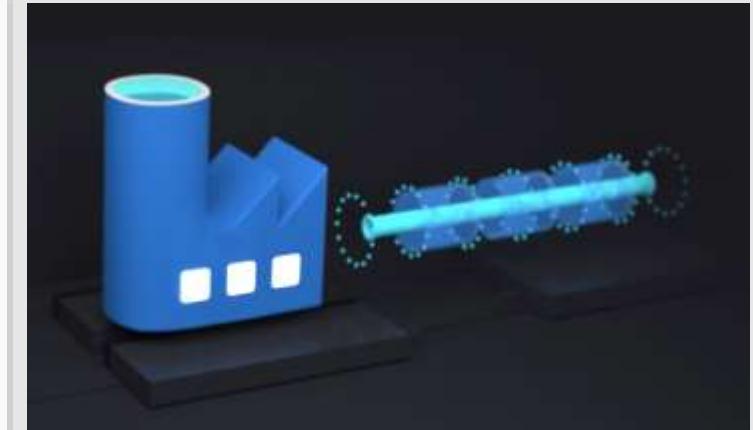


Azure AI Document Intelligence

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

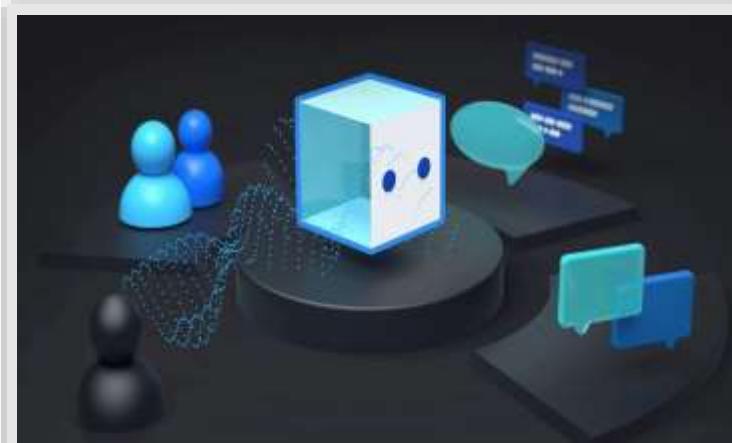
- ❖ [Secured IoT platform for building solutions](#) : From Silicon, through the OS, and the Cloud
- ❖ [Develop, Connect, Manage and Protect intelligent devices](#)
- ❖ [Deploy updates, real-time security patches, OS Updates Over-the-Air \(OTA\)](#)
- ❖ [Solve industry-specific Chip-to-Cloud solutions](#)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



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.'

Microsoft Research Blog

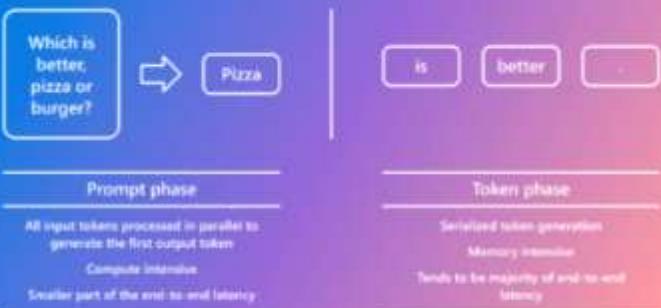


MICROSOFT RESEARCH BLOG

Research at Microsoft 2023: A year of groundbreaking AI advances and discoveries >

December 22, 2023

Prompt computation vs. token generation



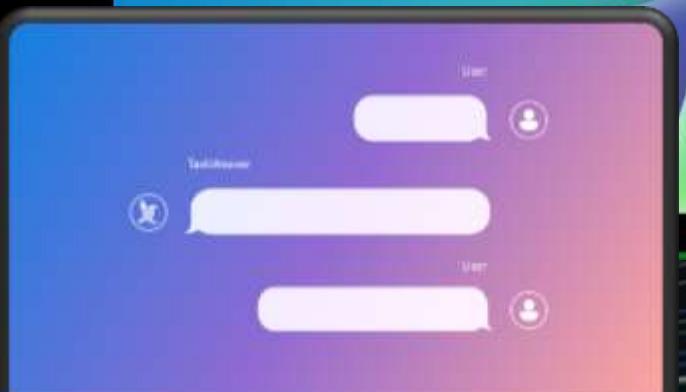
Splitwise improves GPU usage by splitting LLM inference phases >

January 4, 2024

Expanded LLM use creates new demands on cloud GPU capacity. Splitwise presents an efficient solution by separating the two essential phases of LLM inference, achieving higher throughput within a limited power budget.

2023

Microsoft Research
Year in Review



TaskWeaver: A code-first agent framework for efficient data analytics and domain adaptation >

January 11, 2024

AI-backed virtual assistants face challenges in handling complex data structures. TaskWeaver helps users build assistants that understand diverse domain questions, follow examples, and efficiently execute customizable algorithms on complex data structures.



Advancing transparency: Updates on responsible AI research >

January 10, 2024 | [Mihaela Vorvoreanu](#) and Kathy Walker

Editor's note: All papers referenced here represent collaborations throughout Microsoft and across academia and industry that include authors who contribute to Aether, the Microsoft internal advisory body for AI ethics and effects in engineering and research. A surge of generative AI models in the past...



Phi-2: The surprising power of small language models >

December 12, 2023 | [Mojan Javaherpi](#) and [Sébastien Bubeck](#)

Phi-2 is now accessible on the Azure model catalog. Its compact size and new innovations in model scaling and training data curation make it ideal for exploration around mechanistic interpretability, safety improvements, and fine-tuning experimentation on a variety of tasks.

Microsoft Quantum Blog :: Innovation News



Unlocking a new era for scientific discovery with AI: How Microsoft's AI screened over 32 million candidates to find a better battery >

January 9, 2024 • 8 min read



By [Dr. Nathan Baker](#), Product Leader, Azure Quantum Elements, Microsoft

Announcing the Microsoft Quantum team achieved a major milestone toward that vision, using advanced AI to screen over 32 million candidates to discover and synthesize a new material that holds the potential for better batteries—the first real-life example of many that will be achieved in a new era of scientific discovery driven by AI.

[Read more](#)

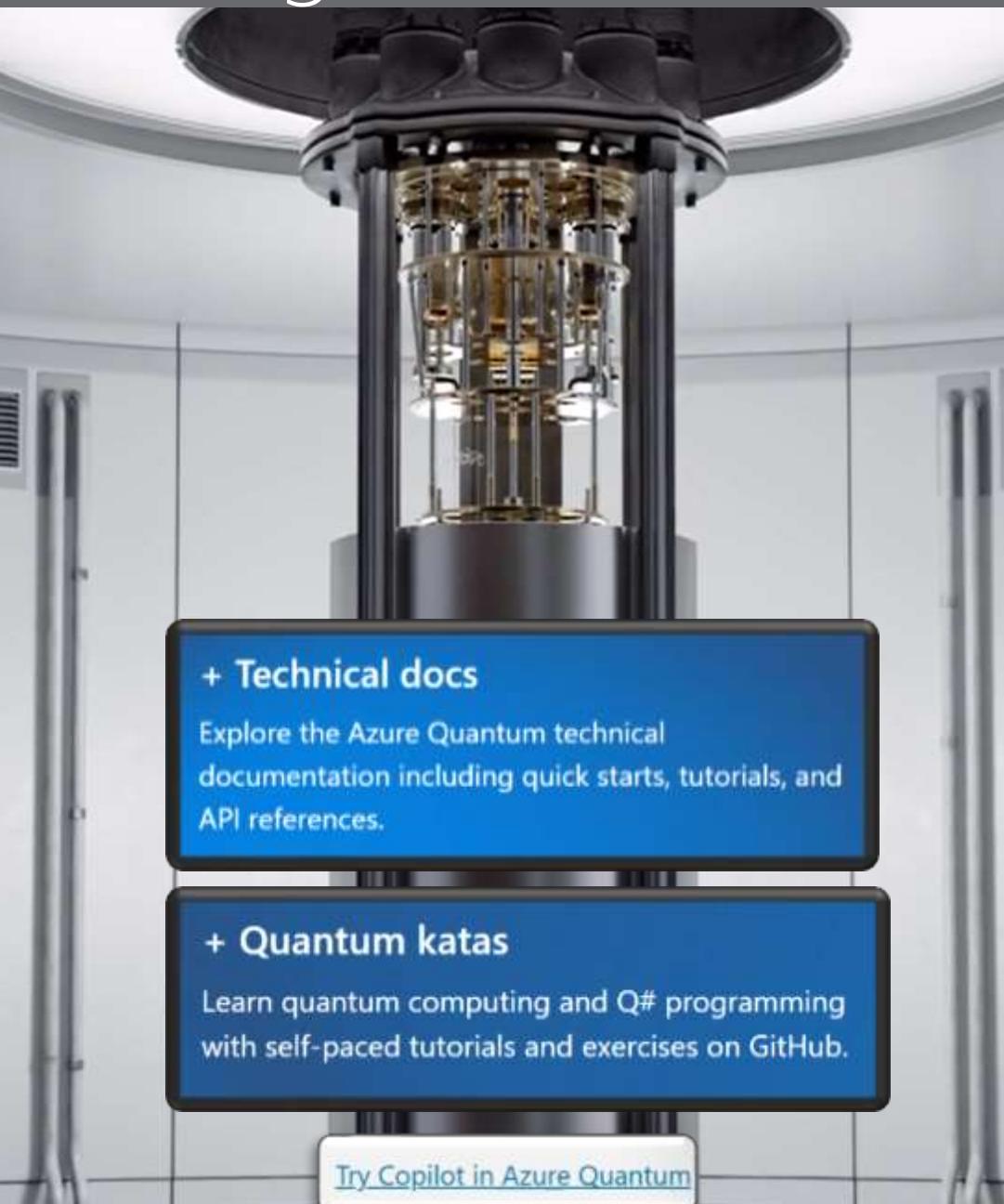
+ Technical docs

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](#)



Increasing research and development productivity with Copilot in Azure Quantum Elements >

December 12, 2023 • 5 min read



By [Dr. Chi Chen](#), Senior Quantum Architect



By [Yousif Almulla](#), Machine Learning Engineer

At Microsoft, we see opportunities to accelerate research and development productivity and usher in a new era of scientific discovery by harnessing the power of today's new generation of AI. [Read more](#)

Showcase Blog



Microsoft Showcase Series



Dec 13, 2023 | Lukas Velush

[Deploying Copilot for Microsoft 365 internally at Microsoft](#)

We're deploying our new Copilot for Microsoft 365 internally at Microsoft at scale and are the first enterprise to do so. We've seen immediate and wide-ranging benefits. "We're rolling it out to our employees right now," says Claire Sisson, a principal group product manager in Microsoft Digital (MSD), the internal IT organization at Microsoft. "Those..."

Dec 15, 2023 | Lukas Velush

[Doing more with less: Optimizing shadow IT through Microsoft Azure best practices](#)

You don't know what you don't know. In the world of IT, illuminating those hidden areas helps stave off nasty surprises. When elements of IT infrastructure are shrouded in mystery, it can lead to security vulnerabilities, non-compliance, and poor budget management. That's the trouble with shadow IT—a term for any technical infrastructure that conventional IT...

Dec 13, 2023 | Alexa Phillips

[Transforming how Microsoft executives use their time with Microsoft Outlook calendar analytics](#)

Executives at Microsoft are using calendar analytics to save themselves something precious—their time. No matter who you are, if you don't stay on top of your calendar, it can take on a life of its own. It's very easy to lose control of how many events and meetings we have each day, week, or month...

Dec 12, 2023 | Emily McKeon

[Unlock our six tips for managing your support content with AI and ChatGPT](#)

Like many large Enterprise organizations, Microsoft's support team develops thousands of troubleshooting guides, self-help resources, knowledge base articles, and process documentation for our support engineers to leverage AI and ChatGPT when helping customers with technical issues. As we have grown over the years here at Microsoft and with the continuous release of new products and...

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.

Jan 5, 2024 | Lukas Velush

[Moving Microsoft's global network to the cloud with Microsoft Azure](#)

Microsoft Azure has been part of the enterprise solution architecture at Microsoft for more than eight years. One thing has remained constant throughout our journey—from early lift-and-shift migrations to recent transformations to cloud-first solutions—the network. "In the early stages, migrating on-premises resources into Azure was our priority, and low-bandwidth dedicated links provided connectivity between on-premises..."

Dec 21, 2023 | Jason Kellington

[Evolving our culture with Microsoft Viva](#)

We're learning a lot from deploying Microsoft Viva here at Microsoft, lessons we want to share with you. Microsoft Viva is a digital employee-experience platform that brings together essential capabilities such as communications, knowledge, learning, and workplace insights in the flow of work to empower people and teams to be their best. Powered by Microsoft...

Microsoft Partner News



Government To-Partner BoM Collection

Find Government To-Partner assets.

2024-01-03 Engage Customers



Accelerate your growth as a Cloud Solution Provider

Learn about new investments to help you get customers AI ready.

2023-12-21



Microsoft AI Innovate Together

Learn more about Microsoft AI and co-innovation with Microsoft.

2023-12-14 Program Resources and Support



Microsoft AI Sell Together

Resources for co-selling with Microsoft.

2023-12-14 Program Resources and Support



Telco Partner BoM

Find Telecommunications To-Partner assets.

2023-12-13 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 structured learning path for Azure, starting from basic concepts and progressing through various services like Compute, Storage, and Networking.

<https://aka.ms/ESIAzureTrainingJourney>

Microsoft Security Operations Analyst

This pathway focuses on Microsoft's security operations, covering topics like threat hunting, incident response, and security automation.

<https://aka.ms/Pathways>

Microsoft Security, Compliance, and Identity Training Journey

This pathway covers Microsoft's security, compliance, and identity offerings, including Azure AD and Microsoft 365.

<https://aka.ms/ESISecurityTrainingJourney>

Azure AI Engineer Learning Pathway

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

<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>

Microsoft Learning and Training :: Learning Blog



CAREER PATHS



Find your career path

Learn more about career paths that intrigue you, follow the guided training paths to help you get certified, and get connected to help reach your career goals.

[Explore career paths](#)

MODULE

Introduction to the Microsoft Azure Well-Architected Framework



⌚ 1 hr 4 min

Beginner • Solution Architect • Azure

MODULE

Build natural language solutions with Azure OpenAI Service



⌚ 57 min

Azure • AI Engineer • Intermediate

[+ Add](#)

MODULE

Automate development tasks by using GitHub Actions



⌚ 49 min

Beginner • DevOps Engineer • GitHub

[+ Save](#)

[+ Add](#)

LEARNING PATH

Develop Generative AI solutions with Azure OpenAI Service



⌚ 5 hr 34 min

Azure • AI Engineer • Intermediate

[+ Add](#)

Microsoft Events and Training: Updates



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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.

[All events](#) [Azure](#) [Microsoft 365](#) [Dynamics 365](#) [Power Platform](#) [Surface](#)

Azure

Microsoft Azure Virtual Training Day: Generative AI Fundamentals

Discover how Azure OpenAI Service helps you deliver results using text, code, image generation, natural language summarization, and semantic search.

Date & Time: Thu 01 Feb 2024, 12:00 PM - 02:30 PM
Timezone: EST
Country: United States
Skill Level: Beginner

[Register >](#)

Microsoft 365

Microsoft 365 Virtual Training Day: Transform Your Employee Experience with Microsoft Viva

Discover how to bring people together and create employee experiences that inspire great work, enable productivity, and boost team morale.

Date & Time: Wed 31 Jan 2024, 12:00 PM - 03:45 PM
Timezone: EST
Country: Canada
Skill Level: Beginner

[Register >](#)

Fabric Analyst in a Day - Lantern - North America

01/17/2024 | 09:00 - 17:00 (CST)

Digital

English (United States)

Training

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: Mon 05 Feb 2024, 12:00 PM - 03:30 PM
Timezone: EST
Country: United States
Skill Level: Intermediate

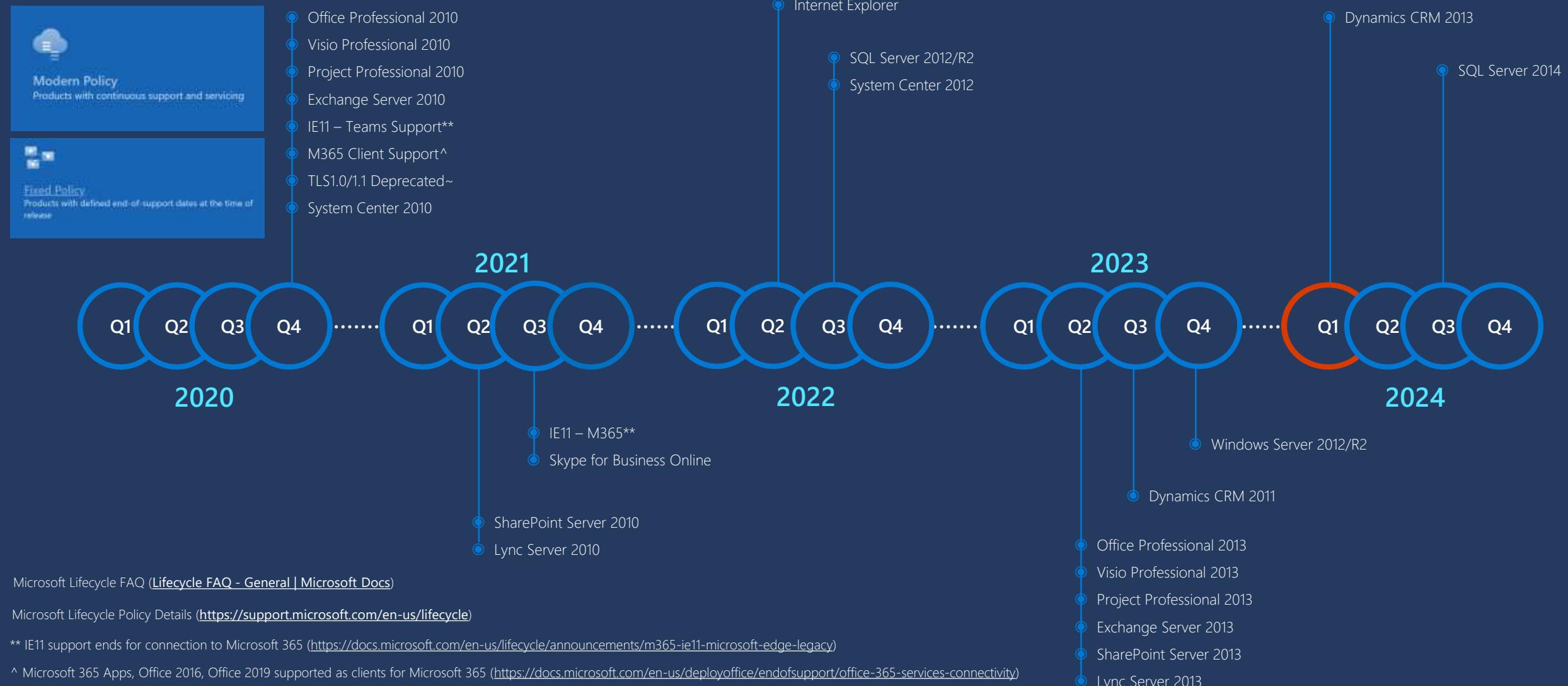
[Register >](#)

Product Lifecycles

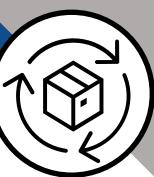




End of Service Roadmap to 2024



Microsoft Product Lifecycle: Modern Policy Products that will Retire



Products under Modern Policy that will Retire in 2024

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

Products under Modern Policy that will Retire in 2025

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

Announcements

- 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)

Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

- 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: Modern Policy Retirements



Product Retirement for 2024

Product Retirement (Modern Policy)	End of Servicing Date
<u>Azure Data Lake Storage Gen1</u>	February 29, 2024
<u>Azure Cloud Services (classic)</u> <u>Machine Learning Studio (classic)</u> <u>Visual Studio for Mac</u>	August 31, 2024
<u>Azure Database for MySQL Single Server</u>	September 16, 2024

Products Retirement for 2025

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

Microsoft Product Lifecycle: Azure Changes 2024



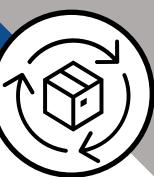
Azure Item	Retirement
AKS legacy Azure AD integration will be retired on 29 February 2024 Azure Batch 'CloudServiceConfiguration' pools will be retired on 29 February 2024 Azure Batch rendering VM images & licensing will be retired on 29 February 2024 Azure Batch Transcription and Customization Rest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

Microsoft Product Lifecycle: Azure Changes 2025



Azure Item	Retirement
<u>On 1 October 2025, the Log Analytics alert API in Azure Monitor will be retired</u>	January 10, 2025
<u>Azure QnA Maker will be retired on 31 March 2025</u> <u>Templates functionality preview version in Azure portal will be retired on 31 March 2025</u> <u>Transition to using connection strings for data ingestion by 31 March 2025</u>	March 31, 2025
<u>Azure Monitor ITSM connector for creating ServiceNow events will be retired on 30 September 2025</u> <u>Community support for Azure Functions Proxies will end on 30 September 2025</u> <u>The application insights Java 2.X SDK will be retired on 30 September 2025</u> <u>Upgrade to Standard SKU public IP addresses in Azure by 30 September 2025—Basic SKU will be retired</u>	September 30, 2025
<u>Migrate to conversational language understanding before Language Understanding (LUIS) is retired on 1 October 2025</u>	October 1, 2

Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



Products Release End of Servicing for 2024

Products Moving to End of Servicing (Modern Policy)	End of Servicing Date
Microsoft Configuration Manager, Version 2207	February 12, 2024
Dynamics 365 Business Central on-premises (Modern Policy), 2022 release wave 2, version 21.x	April 14, 2024
.NET 7	May 14, 2024
Windows 10 Enterprise and Education, Version 21H2 Windows 10 IoT Enterprise, Version 21H2	June 11, 2024
Microsoft Configuration Manager, Version 2211	July 19, 2024
Dynamics 365 Business Central on-premises (Modern Policy), 2023 release wave 1, version 22.x Windows 11 Enterprise and Education, Version 21H2 Windows 11 Home and Pro, Version 22H2 Windows 11 IoT Enterprise, Version 21H2	October 8, 2024
Microsoft Configuration Manager, Version 2303	October 24, 2024
PowerShell, PowerShell 7.2 (LTS-current)	November 8, 2024
Azure IoT Edge, Version 1.4 (LTS) .NET 6.0 (LTS)	November 12, 2024

Products Release End of Servicing for 2025

Products Moving to End of Servicing (Modern Policy)	End of Servicing Date
Windows 11 Enterprise and Education, Version 22H2 Windows 11 IoT Enterprise, Version 22H2	October 14, 2025
Windows Server Annual Channel, Version 23H2	October 24, 2025
Windows 11 Home and Pro, Version 23H2	November 11, 2025

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2024



Products Reaching End of Support for 2024

Products Moving to End of Support (Fixed Policy)	End of Support Date
<u>Microsoft Configuration Manager, Version 2207</u>	February 12, 2024
<u>Dynamics 365 Business Central on-premises (Modern Policy), 2022 release wave 2, version 21.x</u>	April 14, 2024
<u>.NET 7</u>	May 14, 2024
<u>Windows 10 Enterprise and Education, Version 21H2</u> <u>Windows 10 IoT Enterprise, Version 21H2</u>	June 11, 2024
<u>Microsoft Configuration Manager, Version 2211</u>	July 19, 2024

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2025



Products Release End of Support for 2025

Products Moving to End of Support (<u>Fixed Policy</u>)	End of Servicing Date	Products Moving to End of Support (<u>Fixed Policy</u>)	End of Servicing Date
Visual Studio 2022 , Version 17.6 (LTSC channel)	January 9, 2025		
Dynamics C5 2015 Dynamics CRM 2015 Dynamics NAV 2015 Dynamics SL 2015	January 14, 2025	Access 2016 Access 2019 Dynamics 365 Business Central on-premises (Fixed Policy) Excel 2016 Excel 2019 Exchange Server 2016 Exchange Server 2019 Microsoft Office 2016 Microsoft Office 2019 Microsoft Report Viewer 2015 Runtime OneNote 2016 Outlook 2016 Outlook 2019 PowerPoint 2016 PowerPoint 2019 Project 2016 Project 2019 Publisher 2016 Publisher 2019 Skype for Business 2016 Skype for Business 2019 Skype for Business Server 2015 Skype for Business Server 2019 Visio 2016 Visio 2019 Visual Studio 2015 Visual Studio Team Foundation Server 2015 Windows 10 2015 LTSB Windows 10 IoT Enterprise LTSB 2015 Windows 10 Team (Surface Hub) Windows Defender Exploit Guard Windows Defender for Windows 10 Windows Server 2012, Extended Security Update Year 3 Windows Server 2012 R2, Extended Security Update Year 2 Word 2016 Word 2019	October 14, 2025
Dynamics GP 2015 Dynamics GP 2015 R2	April 8, 2025		
Microsoft SQL Server 2012, Extended Security Update Year 3 SQL Server 2014, Extended Security Updates Year 1	July 8, 2025		

Microsoft Product Lifecycle: Products moving to Extended Support



Products Moving to Extended Support for 2024

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

Products Moving to Extended Support for 2025

Products Moving to Extended Support (Fixed Policy)	End of Support Date
SQL Server 2019	February 28, 2025
Azure DevOps Server 2020 Microsoft Robotics	October 14, 2025



Acquisitions and Announcements

Microsoft Acquisitions - 2023



Company	Date	Description
Fungible	01-09-2023	<p>Fungible Inc., a provider of composable infrastructure aimed at accelerating networking and storage performance in datacenters with high-efficiency, low-power data processing units (DPUs). Fungible's technologies help enable high-performance, scalable, disaggregated, scaled-out datacenter infrastructure with reliability and security. 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.</p>

Microsoft Acquisitions - 2022



Company	Date	Description
Lumenisity	12-09-2022	Lumenisity® Limited , 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 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 .
Miburo	06-14-2022	Miburo will enhance Microsoft's Cybersecurity and Threat Analysis capabilities. The addition of Miburo will 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 in conjunction with other cyber-attacks to achieve their objectives. Miburo is a leading expert in the identification of foreign information operations . Miburo's research teams detect and attribute malign and extremist influence campaigns across 16 languages . 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.
Minit	03-31-2022	Minit currently enables businesses to transform the way they analyze, monitor and optimize their processes . Minit's solutions have helped businesses gain deep insights into how processes run , uncover root causes of operational challenges and help mitigate undesired process outcomes. This acquisition will further empower Microsoft to help our customers digitally transform and drive operational excellence 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 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 .
Oribi	02-28-2022	Microsoft's LinkedIn will acquire Oribi , an Israel based marketing analytics company , to further help customers, from marketers to recruiters, gain actionable insights, make smarter decisions and drive business results . The integration of LinkedIn and Oribi will accelerate Microsoft's marketing attribution and codeless analytics capabilities .
Activision Blizzard	01-18-2022	Microsoft announced plans to acquire Activision Blizzard Inc. (Nasdaq: ATVI), a leader in game development and interactive entertainment content publisher. This acquisition will accelerate the growth in Microsoft's gaming business across mobile, PC, console and cloud and will provide building blocks for the metaverse . "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
Xandr	12-21-2021	Microsoft will acquire Xandr from AT&T . Xandr provides a data-enabled technology platform with tools that help power a diverse ecosystem connecting marketers and media owners through first-party, data-led advertising solutions across its network. With Xandr, Microsoft can accelerate the delivery of digital advertising solutions for the open web by combining Microsoft's audience understanding, technology and global advertising customer base with Xandr's large-scale, data-driven platforms for advertising.
Two Hat	10-29-2021	Two Hat , 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.
Clear Software	10-22-2021	Clear Software provides iPaaS and business process solutions with strong connectivity into SAP and Oracle . 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 that reside beyond Microsoft first-party services.
Ally.IO	10-07-2021	Ally.io , a leading OKR (objectives and key results) company, will join the Microsoft Viva family as part of our employee experience platform (EXP) designed to help companies embrace the new digital work life. Ally.io will power a new Microsoft Viva module . Viva is an employee experience platform that brings together communications, knowledge, learning, resources and insights – from anywhere you work. Powered by Microsoft 365 and Microsoft Teams , Viva helps organizations foster a culture of human connection, growth, well-being and success.
TakeLessons	09-08-2021	We're so excited to announce that TakeLessons has been acquired by Microsoft . We believe this will further support TakeLessons' mission: to empower people to learn, connect, grow, and live more meaningful lives through education .
Clipchamp	09-07-2021	Clipchamp is a natural fit to extend the cloud-powered productivity experiences in Microsoft 365 for individuals, families, schools, and businesses. It's also a great fit for Microsoft Windows, which is a platform for boundless creativity. Clipchamp's template-driven, task-focused user experience gives everyone the confidence that they can create. Its rich library of filters, styles, transitions, and stock media combined with the power of a multi-track audio and video compositing editor gives everyone the fine control they need, and artistic help if they need it, to create exactly what they want, quickly and with confidence .
Peer5	08-10-2021	Peer5 expands Microsoft's ability for delivering secure, high-quality, large-scale live video streaming with optimized network performance in Teams . 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 mesh networks are self-balancing and automatically scale as the number of viewers increase.

Microsoft Acquisitions - 2021



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



Microsoft Acquisitions - 2020

Company	Date	Description
<u>ZeniMax Media</u>	09-21-2020	ZeniMax Media, the parent company of Bethesda Softworks , one of the largest privately held game developers and publishers in the world . Creators of critically acclaimed and best-selling gaming franchises including The Elder Scrolls, Fallout and many others , Bethesda brings an impressive portfolio of games, technology and talent — as well as a track record of blockbuster commercial success — to Xbox.
<u>Orions Systems</u>	07-07-2020	Orions Systems, a pioneer in the development of large-scale, hybrid, smart vision systems focused on “human-in-the-loop” machine teaching combined with services that can adapt to running on a single device or scale to address large scale edge-to-cloud network topologies . 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.
<u>CyberX</u>	06-22-2020	CyberX will complement the existing <u>Azure IoT security</u> capabilities and extends to existing devices including those used in industrial IoT, Operational Technology and infrastructure scenarios . With CyberX, customers can discover their existing IoT assets, and both manage and improve the security posture of those devices . 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,
<u>ADRM Software</u>	06-18-2020	ADRM Software is a leading provider of large-scale industry data models , 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. Together with Microsoft Azure, these capabilities will be delivered at scale , enabling our customers to accelerate digital progress, and reduce risk in a variety of major initiatives.
<u>Softomotive</u>	05-19-2020	<u>Softomotive</u> currently helps more than 9,000 global customers seamlessly automate business processes across legacy and modern desktop applications . Together with Power Automate, WinAutomation will provide customers additional options for RPA desktop authoring so anyone can build a bot and automate Windows-based tasks.
<u>Metaswitch Networks</u>	05-14-2020	<u>Metaswitch Networks</u> , a leading provider of virtualized network software and voice, data and communications solutions for 5G operators .
<u>Corp.Com</u>	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."
<u>Affirmed Networks</u>	03-26-2020	Affirmed Networks with its leadership in virtualized 5G mobile networks . 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, including autonomous vehicles, smart cities, virtual reality and a range of other smart industry use cases and services .

Microsoft Acquisitions - 2019



Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately presenting entire IT environments within a single day , providing enterprises with the confidence they need to have visibility and control of their environments regardless of platform, application or geography as organizations grow, change and digitally optimize .
Semmle	09-18-2019	Semmle's revolutionary semantic code analysis engine allows developers to write queries that identify code patterns in large codebases and search for vulnerabilities and their variants . Semmle is trusted by security teams at Uber, NASA, Microsoft, Google , and has helped find thousands of vulnerabilities in some of the largest codebases in the world , as well as over 100 CVEs in open source projects to date.
JClarity	08-19-2019	The leading contributor to the AdoptOpenJDK project , to support their continued contributions to open source while driving increased performance for Java workloads on Azure . The team, formed by Java champions and data scientists with proven expertise in data driven Java Virtual Machine (JVM) optimizations , will help teams at Microsoft to leverage advancements in the Java platform.
PromotelQ	08-05-2019	The leading provider of vendor marketing technology to online retailers and brands . 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 Unified Data Access Control solutions for modern data platforms . 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^ helps teams create more efficient and effective code review workflows on GitHub . 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^ gives teams a better way to manage reviews, reduce turnaround times, and ship code faster .
Double Fine Productions	06-09-2019	Double Fine is a beacon of creativity and spirit in game development for almost 20 years with classic games like Psychonauts, Brütal Legend and Broken Age . 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 real time operating systems (RTOS) for IoT and edge devices powered by microcontroller units (MCUs) . Express Logic's ThreadX RTOS has over 6.2 billion deployments, making it one of the most deployed RTOS in the world per VDC Research . 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 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 within Azure to help drive the best possible learning outcomes for their students. Read more at https://educationblog.microsoft.com/en-us/2019/02/introducing-datasense-to-microsoft-educations-family-of-products/#E6CKQEBUjS35TOH4.99
Citus Data	01-24-2019	a leader in the PostgreSQL community. Citus is an innovative open source extension to PostgreSQL that transforms PostgreSQL into a distributed database, dramatically increasing performance and scale for application developers . Because Citus is an extension to open source PostgreSQL, it gives enterprises the performance advantages of a horizontally scalable database while staying current with all the latest innovations in PostgreSQL . 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 next-generation app-provisioning platform that reduces the resources, time and labor required to support virtualization . 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 software product design and development studio known for its conversational AI and bot development capabilities . The company has been paving the way in conversational AI since 2013 and was responsible for the creation of Howdy , the first commercially available bot for Slack that helps schedule meetings, and Botkit, which provides the development tools used by hundreds of thousands of developers on GitHub . Over the years, we have partnered with XOXCO and have been inspired by this work.
Obsidian	11-10-2018	The studio quickly made a name for itself with the Xbox exclusive Star Wars: Knights of the Old Republic II: The Sith Lords . 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 https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99
InXile	11-10-2018	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 . Read more at https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99
Lobe	09-13-2018	Lobe makes deep learning simple, understandable and accessible to everyone. Lobe's simple visual interface empowers anyone to develop and apply deep learning and AI models quickly, without writing code .

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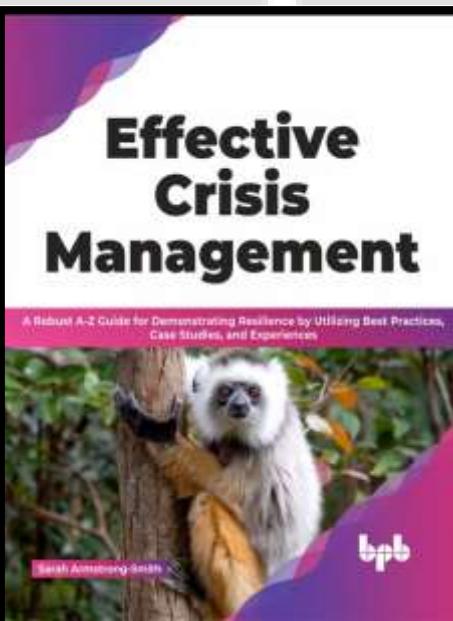
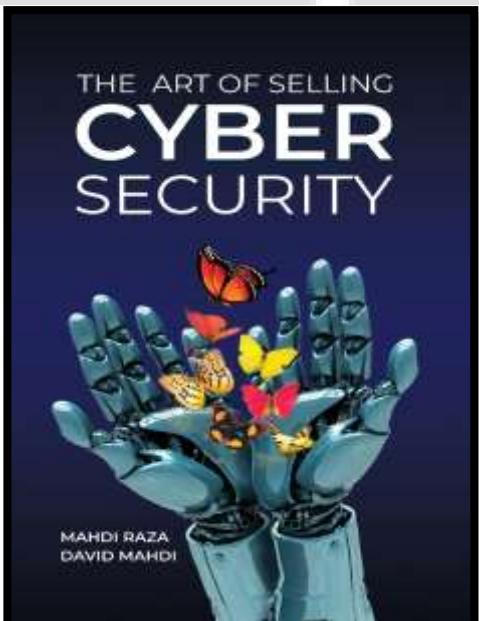
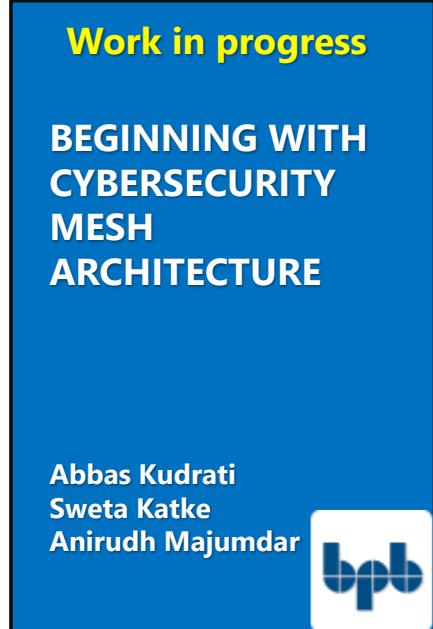
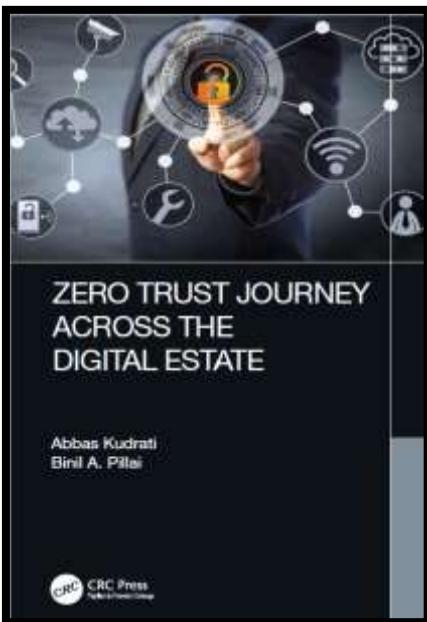
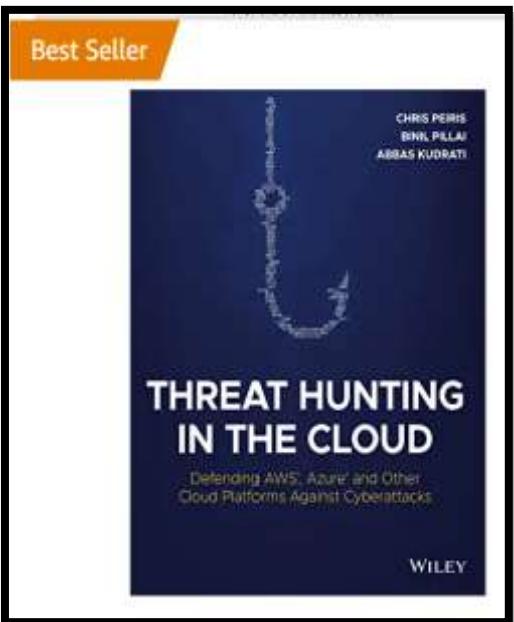
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