



Monthly Tech Briefing

JULY 2024



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

- [Digital Event: Future of VMware is in Azure](#)
- [GitHub Universe – October 2024](#)
- [Microsoft Ignite – November 2024](#)
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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.

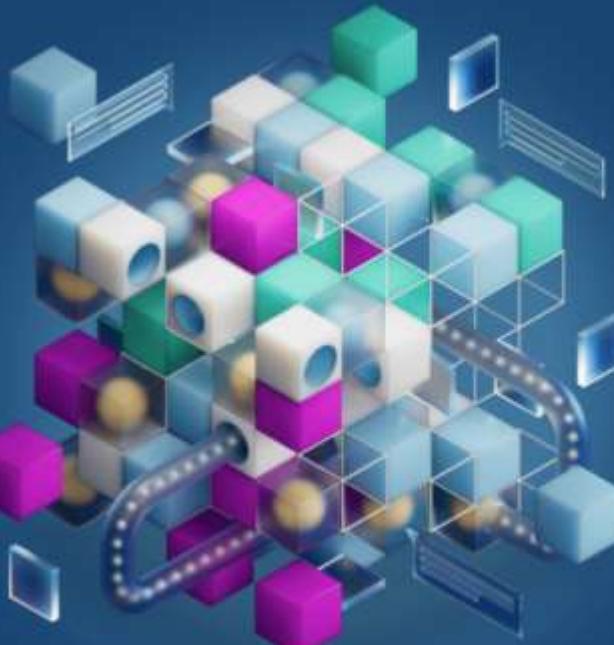
3. Large language models

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 outline 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.

10 (more) AI terms everyone should know

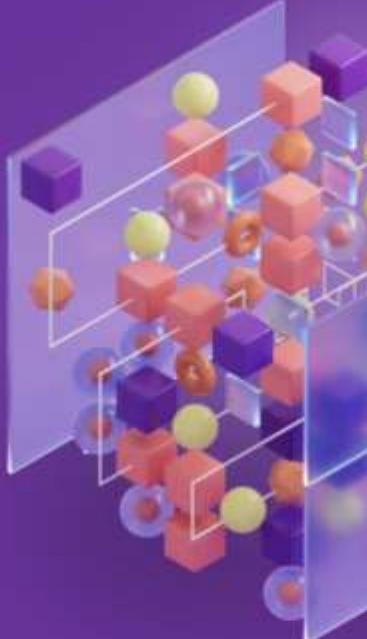
by Susanna Ray

SLM/small language model

Small language models, or SLMs, are pocket-sized versions of [large language models](#), or LLMs. They both use machine learning techniques to help them recognize patterns and relationships so they can produce realistic, natural language responses. But while LLMs are enormous and need a hefty dose of computational power and memory, SLMs [such as Phi-3](#) are trained on smaller, curated datasets and have fewer parameters, so are more compact and can even be used offline, without an internet connection. That makes them great for apps on devices like a laptop or phone, where you might want to ask basic questions about pet care but don't need to dive into the detailed, multi-step reasoning of how to train seeing-eye dogs.

Training/inference

To create and use an AI system, there are two steps: training and inference. Training is sort of like an AI system's education, when it is fed a dataset and learns to perform tasks or make predictions based on that data. For example, it might be given a list of prices for homes recently sold in a neighborhood, along with the number of bedrooms and bathrooms in each and a multitude of other variables. During training, the system adjusts its internal parameters, which are values that determine how much weight to give each of those factors in influencing pricing. Inference is when it uses those learned patterns and parameters to come up with a price prediction for a new home about to go on the market.



Retrieval Augmented Generation (RAG)

When developers give an AI system access to a grounding source to help it be more accurate and current, they use a method called Retrieval Augmented Generation, or RAG. The RAG pattern saves time and resources by adding extra knowledge without having to retrain the AI program. It's as if you're Sherlock Holmes and you've read every book in the library but haven't cracked the case yet, so you go up to the attic, unroll some ancient scrolls, and voilà — you find the missing piece of the puzzle. Similarly, if you've got a clothing company and want to create a chatbot that can answer questions specific to your merchandise, you can use the RAG pattern over your product catalog to help customers find the perfect green sweater from your store.

Transformer models and diffusion models

People have been teaching AI systems to understand and generate language for decades, but one of the breakthroughs that accelerated recent progress was the transformer model. Among generative AI models, transformers are the ones that understand context and nuance the best and fastest. They're eloquent storytellers, paying attention to patterns in data and weighing the importance of different inputs to help them quickly predict what comes next, which enables them to generate text. A transformer's claim to fame is that it's the T in ChatGPT — Generative Pre-trained Transformer. Diffusion models, generally used for image creation, add a twist by taking a more gradual and methodical journey, diffusing pixels from random positions until they're distributed in a way that forms a picture asked for in a prompt. Diffusion models keep making small changes until they create



10th anniversary

UNIVERSE24[°]

Global developer event

• San Francisco, CA

• October 29-30

• Live and virtual

[Get tickets](#) ↗

[Watch the trailer](#) ↗



Microsoft Ignite

November 18-22, 2024

Our biggest event of the year is getting even bigger. Join us in Chicago to expand your AI knowledge, create connections, and more—mark your calendar. Sign up to be notified when registration opens.

[Learn more >](#)

Save the date

In Chicago and online: November 18–22, 2024

Our biggest event of the year is getting even bigger. Join us in Chicago to expand your AI knowledge, create connections, and more—mark your calendar.

[Join the email list](#)

Updates of Security and Compliance





What's new in the MSRC Report Abuse Portal and API

Wednesday, July 03, 2024

The Microsoft Security Response Center (MSRC) has always been at the forefront of addressing cyber threats, privacy issues, and abuse arising from Microsoft Online Services. Building on our commitment, we have introduced several key updates to the Report Abuse Portal and API, which will significantly improve the way we handle and respond to abuse reports.

[Read More >](#)

Toward greater transparency: Unveiling Cloud Service CVEs

Thursday, June 27, 2024

Welcome to the second installment in our series on transparency at the Microsoft Security Response Center (MSRC). In this ongoing discussion, we discuss our commitment to provide comprehensive vulnerability information to our customers. At MSRC, our mission is to protect our customers, communities, and Microsoft, from current and emerging threats to security and privacy.

[Read More >](#)

News [Secure Future Initiative \(SFI\)](#) · 7 min read

Security above all else—expanding Microsoft's Secure Future Initiative

By [Charlie Bell](#), Executive Vice President, Microsoft Security

[Best practices](#) [Incident response](#) [Microsoft Incident Response](#) · Jun 25 · 7 min read

How to boost your incident response readiness >

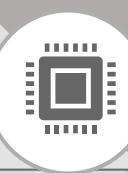
Discover key steps to bolster incident response readiness, from disaster recovery plans to secure deployments, guided by insights from the Microsoft Incident Response team.

[Best practices](#) [Incident response](#) [Microsoft Entra](#) · Jun 12 · 5 min read

Microsoft Incident Response tips for managing a mass password reset >

When an active incident leaves systems vulnerable, a mass password reset may be the right tool to restore security. This post explores the necessity and risk associated with mass password resets.

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

Telecommunications

Show all industries >

Devices with encounters:

180,901 (2.26%)

Most affected industries



Analyst reports Microsoft Defender Experts for XDR · Jun 18 · 4 min read

Microsoft Defender Experts for XDR recognized in the latest MITRE Engenuity ATT&CK® Evaluation for Managed Services >

Microsoft Defender Experts for XDR delivered excellent results during round 2 of the MITRE Engenuity ATT&CK® Evaluations for Managed Services menuPass + ALPHV BlackCat.

Microsoft Security Response Center

Telecommunications ▾

Top threats:

HackTool:Win32/AutoKMS!pz
TrojanScript/Wacatac.B!ml
HackTool:Win32/AutoKMS
HackTool:Win32/Keygen
/Wacatac.B!ml

Worldwide

80,182,313 devices with encounters

Top threats:

PUA:Win32/Softcnapp
Trojan:Win32/Wacatac.B!ml
HackTool:Win32/AutoKMS
HackTool:Win32/AutoKMS!pz
Trojan:Script/Wacatac.B!ml

Research Threat intelligence Microsoft Defender Vulnerabilities and exploits · Jul 2 · 7 min read

Vulnerabilities in PanelView Plus devices could lead to remote code execution >

Microsoft discovered and responsibly disclosed two vulnerabilities in Rockwell's PanelView Plus that could be remotely exploited by unauthenticated attackers, allowing them to perform remote code execution (RCE) and denial-of-service (DoS). PanelView Plus devices are graphic terminals, which are known as human machine interface (HMI) and are used in the industrial space.

Jun 26 · 6 min read

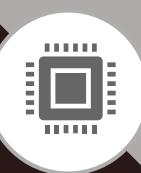
Mitigating Skeleton Key, a new type of generative AI jailbreak technique >

Microsoft recently discovered a new type of generative AI jailbreak method called Skeleton Key that could impact the implementations of some large and small language models. This new method has the potential to subvert either the built-in model safety or platform safety systems and produce any content.

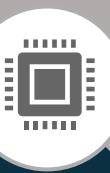
Tracked activity

- Nation-state actors
- Ransomware groups
- Cyber mercenaries
- or private sector offensive actors
- Storm-#### designations refer to emerging or developing clusters of threat activity.

Microsoft :: Threat Intelligence Blog



Microsoft Threat Monitor :: Security Insiders



Threat actor insights

Microsoft Threat Intelligence is actively tracking threat actors across observed nation state, ransomware, and criminal activities. These insights represent publicly published activity from Microsoft threat researchers and provide a centralized catalog of actor profiles from the referenced blogs.

Manatee Tempest

Manatee Tempest (formerly DEV-0243) is a threat actor that is a part of the ransomware as a service (RaaS) economy, partnering with other threat actors to provide custom Cobalt Strike loaders.

Forest Blizzard

Forest Blizzard (formerly STRONTIUM) uses a variety of initial access techniques including exploiting vulnerable to web facing applications and, to obtain credentials, spear phishing and the deployment of an automated password spray/brute force tool operating through TOR

Pistachio Tempest

Pistachio Tempest (formerly DEV-0237) is a group associated with impactful ransomware distribution. Microsoft has observed Pistachio Tempest use varied ransomware payloads over time as the group experiments with new ransomware as a service (RaaS) offerings, from Ryuk and Conti to Hive, Nokoyawa, and, most recently, Agenda and Mindware.

Wine tempest

Wine Tempest (formerly PARINACOTA) typically uses human-operated ransomware for attacks, mostly deploying the Wadhrama ransomware. They are resourceful, changing tactics to match their needs and have used compromised machines for various purposes, including cryptocurrency mining, sending spam emails, or proxying for other attacks.

Crimson Sandstorm

Crimson Sandstorm (formerly CURIUM) actors have been observed leveraging a network of fictitious social media accounts to build trust with targets and deliver malware to ultimately exfiltrate data.

Nylon Typhoon

Nylon Typhoon (formerly NICKEL) uses exploits against unpatched systems to compromise remote access services and appliances. Upon successful intrusion, they have used credential dumpers or stealers to obtain legitimate credentials, which they then used to gain access to victim accounts and to gain access to higher value systems.

Gray Sandstorm

Gray Sandstorm (formerly DEV-0343) conducts extensive password spraying emulating a Firefox browser and using IPs hosted on a Tor proxy network. They typically target dozens to hundreds of accounts within an organization, depending on the size, and enumerate each account from dozens to thousands of times.

Midnight Blizzard

The actor that Microsoft tracks as Midnight Blizzard (NOBELIUM) is a Russia-based threat actor attributed by the US and UK governments as the Foreign Intelligence Service of the Russian Federation, also known as the SVR.

Diamond Sleet

The actor Microsoft tracks as Diamond Sleet is a North Korea-based activity group known to target media, defense, and information technology (IT) industries globally. Diamond Sleet focuses on espionage, theft of personal and corporate data, financial gain, and corporate network destruction.

Hazel Sandstorm

Hazel Sandstorm (formerly EUROPIUM) has been publicly linked to Iran's Ministry of Intelligence and Security (MOIS). Microsoft assessed with high confidence that on July 15, 2022, actors sponsored by the Iranian government conducted a destructive cyberattack against the Albanian government, disrupting government websites and public services.

Volt Typhoon

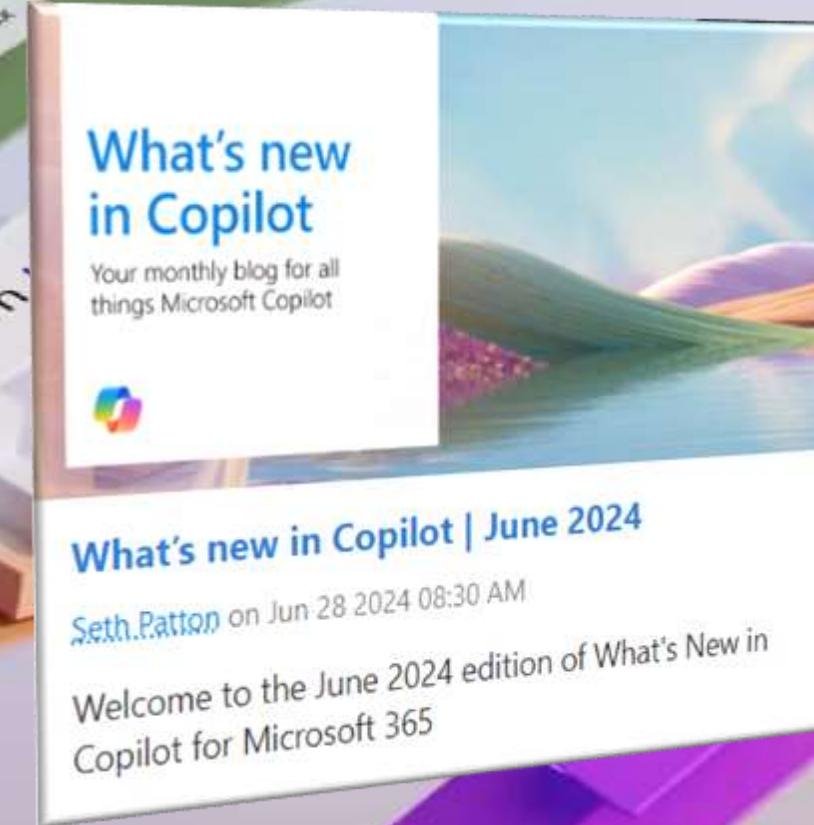
The actor that Microsoft tracks as Volt Typhoon is a nation-state activity group based out of China. Volt Typhoon focuses on espionage, data theft, and credential access.

Cadet Blizzard

Microsoft tracks Cadet Blizzard (formerly DEV-0586) as a Russian GRU-sponsored threat group that Microsoft began tracking following disruptive and destructive events occurring at multiple government agencies in Ukraine in mid-January 2022.

Caramel Tsunami

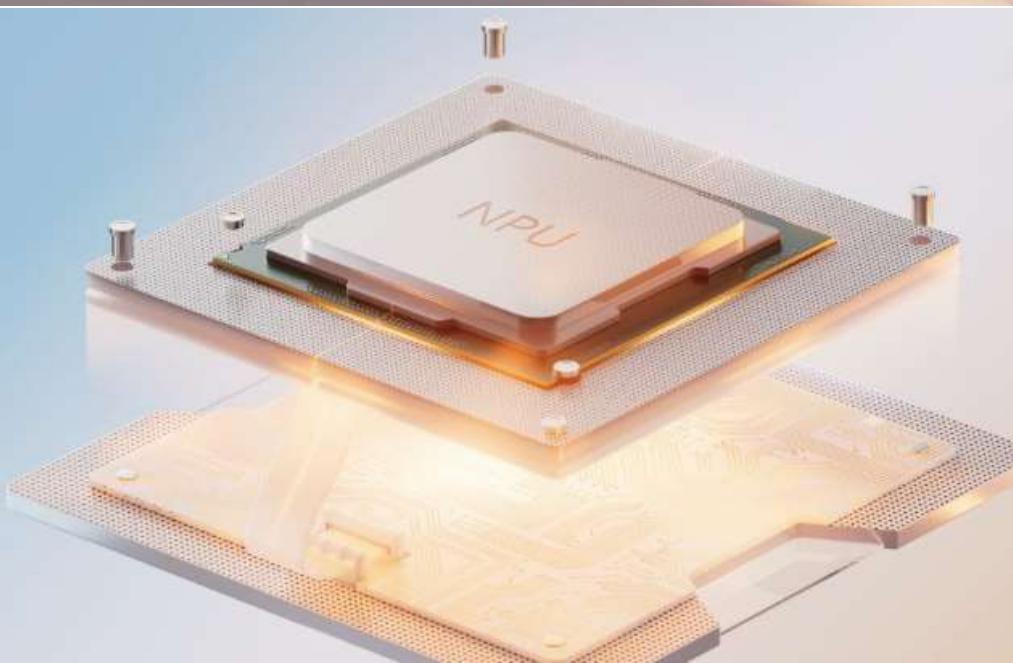
Caramel Tsunami (formerly SOURGUM) generally sells cyberweapons, usually malware and zero-day exploits, as a part of a hacking-as-a-service package sold to government agencies and other malicious actors.



Microsoft 365 update information

Introducing Copilot+ PCs

May 20, 2024 | Yusuf Mehdi - Executive Vice President, Consumer Chief Marketing Officer



Today, at a special event on our new Microsoft campus, we [introduced the world to a new category of Windows PCs designed for AI, Copilot+ PCs.](#)

Utilizing powerful new silicon with an NPU (neural processing unit) capable of an incredible 40+ TOPS (trillion operations per second), Copilot+ PCs provide organizations an exceptional AI endpoint for work, and a foundation for your chip-to-cloud solution stack. Copilot+ PCs unlock industry leading AI acceleration with up to 2x faster NPU performance than MacBook Air and MacBook Pro.^[1]

Copilot+ PCs are the fastest, most intelligent Windows PCs ever built. [With powerful new silicon capable of an incredible 40+ TOPS \(trillion operations per second\), all-day battery life and access to the most advanced AI models.](#)

Copilot+ PCs will enable you to do things you can't on any other PC. Easily find and remember what you have seen in your PC with Recall, generate and refine AI images in near real-time directly on the device using CoCreator, and bridge language barriers with Live Captions, translating audio from 40+ languages into English.



Microsoft Copilots empowering your business

Unlock Productivity across your organization

Persona	Copilot	Scenario	Availability	Blogs	Demo/Video
Knowledge Workers	Microsoft Copilot	I want to introduce my entire organization to generative AI without putting my company data at risk—allowing employees to get answers, summarize documents, or generate images and text in Windows, Edge, Bing, and the Copilot mobile app	Generally Available	LINK	LINK
	Copilot for Microsoft 365	I want to bring Copilot to my entire organization to use AI-powered chat with secure access to organizational graphs and access Copilot across all M365 apps.	Generally Available	LINK	LINK
	Copilot for Dynamics 365 Project Operations	I want to rapidly create new project plans for new engagements in minutes, instead of hours, simply by describing details of the project using natural language.	Generally Available	LINK	LINK
	Copilot for Dynamics 365 Finance	I want collections managers to have quick access to credit and payment history so they can prioritize and personalize customer communication, helping to increase successful collection rates and proactively keep customers in good standing.	Generally Available	LINK	LINK
	Copilot for Dynamics 365 Supply Chain	I want to efficiently handle changes to purchase orders at scale and assess the impact and risk to help optimize procurement decisions.	Public Preview	LINK	LINK
	Copilot in Microsoft Viva	I want to accelerate workforce insights and actionable OKR development, automate processes, and boost employee engagement with next-generation AI	Limited Preview		
Customer Service	Copilot in Dynamics 365 Business Central	I want to accelerate product launches by generating and publishing engaging product descriptions in my own voice with help from AI.	Generally Available	LINK	LINK
	Microsoft Copilot for Service	I want to modernize my contact center to enhance service experiences and boost agency productivity.	Generally Available	LINK	LINK
	Copilot in Dynamics 365 Customer Service	I want to level up my customer care by generating contextual responses to customer questions and quick access to case resolution expertise with AI assistance.	Generally Available	LINK	LINK
	Copilot in Dynamics 365 Field Service	I want to help frontline service workers spend less time on repetitive tasks and more time focused on customers by using AI to prepopulate data in work orders.	Generally Available	LINK; LINK	LINK; LINK
Sales	Copilot in Dynamics 365 Customer Insights	I want to use generative AI to generate insights about customers and curate highly personalized, targeted customer segments using natural language dialogue.	Generally Available	LINK	LINK; LINK
	Microsoft Copilot for Sales	I want to transform the way sellers work by automating and simplifying tasks, personalized customer interactions, and maintain selling focus.	Generally Available	LINK	LINK; Guided: LINK
	Copilot in Dynamics 365 Sales	I want to help sellers prioritize ROI-generating tasks by reducing mundane work with AI assistance for email replies, meeting prep, and information tracking.	Generally Available	LINK	
Data Professionals	Copilot in Microsoft Fabric	I want an AI assistant to help my data professionals analyze and visualize data using natural language.	Public Preview	LINK	LINK
	Copilot in Power BI	I want to use AI to illuminate hidden patterns, opportunities, and anomalies in my data.	Public Preview	LINK	LINK

Safeguard your business

Persona	Copilot	Scenario	Availability	Blogs	Demo/Video
Security Analysts	Microsoft Copilot for Security	I want a generative AI-powered security solution that helps increase the efficiency and capabilities of defenders to improve security outcomes at machine speed and scale.	Generally Available	LINK	LINK

Build and extend your AI capabilities

Persona	Copilot	Scenario	Availability	Blogs	Demo/Video
IT Professionals	Microsoft Copilot for Azure	I want to use generative AI to help users gain new insights into their workloads, unlock untapped Azure functionality, and orchestrate tasks across cloud & edge.	Public Preview	LINK	
	Copilot in Power Apps	I want to build enterprise-grade applications faster and more easily with generative AI.	Public Preview	LINK	LINK
	Copilot in Power Automate	I want to build, edit, and extend workflows using natural language and get help from AI powered chat.	Public Preview	LINK	LINK
	Copilot in Power Pages	I want to revolutionize my web development experience by leveraging AI to generate text, build detailed forms, and chatbots—all in a matter of minutes.	Private Preview	LINK	LINK
Developers	GitHub Copilot	I want to provide my developers contextualized assistance throughout the software development cycle in several languages.	Generally Available	LINK	LINK
	GitHub Copilot Enterprise	I want to enhance GitHub Copilot with a more personalized experience by bringing in chat and voice interfaces, pull request support, and the ability to get answers on documents.	General Available	LINK	LINK
	Microsoft Copilot Studio	I want to extend Copilot for Microsoft 365 with a plugin and/or create custom copilots and want to use a low-code tool.	Generally Available	LINK	LINK
	Teams Toolkit for Visual Studio Code	I want to extend Copilot for Microsoft 365 with a plugin or build my own copilot for Microsoft Teams using a pro-code tool.	Generally Available	LINK	LINK
	Build your own copilot with Azure AI Studio	I want to build, evaluate, and deploy my AI solutions securely and responsibly all within one space.	Public Preview	LINK	LINK



Agriculture and Sustainability



Sustainability News and announcements . 4 min read

AgPilot: Enhancing productivity and efficiency with AI for smarter farming

By [Pepijn Richter](#), General Manager, Microsoft Cloud for Retail and Agriculture solutions

Learn / Industry Clouds / Microsoft Cloud for Sustainability /

Overview of Copilot in Microsoft Sustainability Manager

Article • 05/24/2024 • 2 contributors

In this article

Important considerations

Add Copilot to your environment

Responsible AI

Create calculation models with Copilot in Microsoft Sustainability Manager

Article • 05/16/2024 • 3 contributors

Feedback

In this article

Create calculation models with Copilot

See also



Sustainability News and announcements . 5 min read

Use natural language and generative AI to create calculation models, streamline data collection, and improve reporting

By [Shefy Manayil Kareem](#), General Manager, Microsoft Cloud for Sustainability

Microsoft Azure Data Manager for Agriculture

Bring together and transform data from across the farm

[Explore our solutions >](#)



Healthcare AI and Copilots

[AI + Machine Learning](#), [Announcements](#), [Azure AI](#), [Azure OpenAI Service](#), [Events](#), [Health Bot](#)

Azure AI Health Bot helps create copilot experiences with healthcare safeguards

By [Hadas Bitran](#), Partner General Manager, Health AI, Microsoft Health & Life Sciences

[AI Announcements](#) · 6 min read

Introducing healthcare data solutions in Microsoft Fabric: A game-changer for healthcare data analysis

By [Umesh Rustogi](#), General Manager, Microsoft Health and Life Sciences Data Platform

[Healthcare](#) [News and announcements](#) [Providers](#) · 6 min read

How next-generation AI and digital tools are transforming healthcare

By [Tom McGuinness](#), CVP Global Healthcare & Life Sciences

[Healthcare](#) [News and announcements](#) · 6 min read

Harness the power of data and AI in healthcare with new Microsoft solutions

By [David Ardman](#), Corporate Vice President, Health and Life Sciences Platform, Microsoft

Nuance and Microsoft Announce the First Fully AI-Automated Clinical Documentation Application for Healthcare



Groundbreaking Nuance DAX Express is the next milestone in an expanding portfolio of solutions combining OpenAI's GPT-4 with proven workflow-integrated technology to define the future of intelligence-infused healthcare experiences

Microsoft AI



Microsoft's advancements in AI are grounded in our company's mission to help every person and organization on the planet to achieve more — from helping people be more productive to helping solve society's most pressing problems.



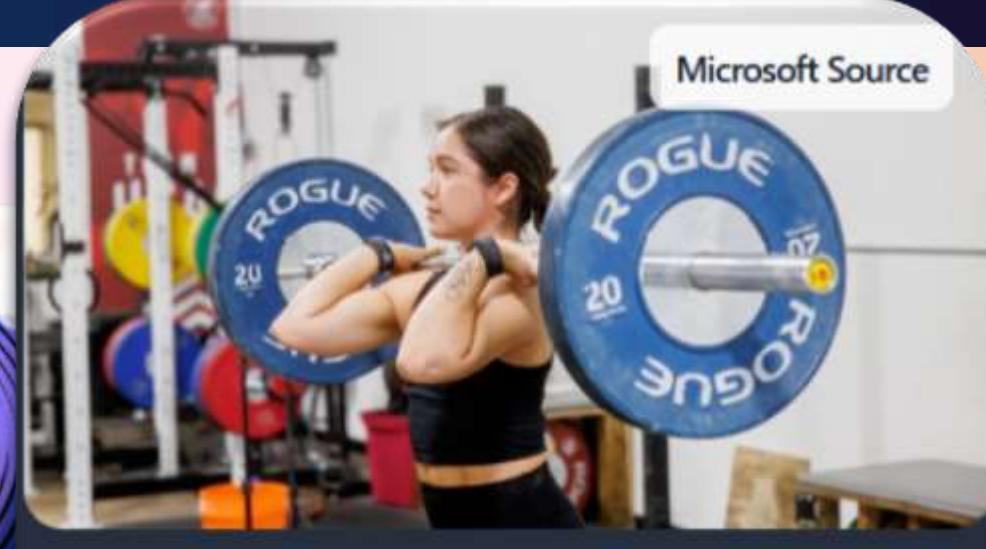
AI · Jun 18 · 8 min read

Empowering every scientist with AI-augmented scientific discovery >



AI · Jun 20 · 4 min read

Why AI sometimes gets it wrong—and big strides to address it >



AI · Jun 17 · 8 min read

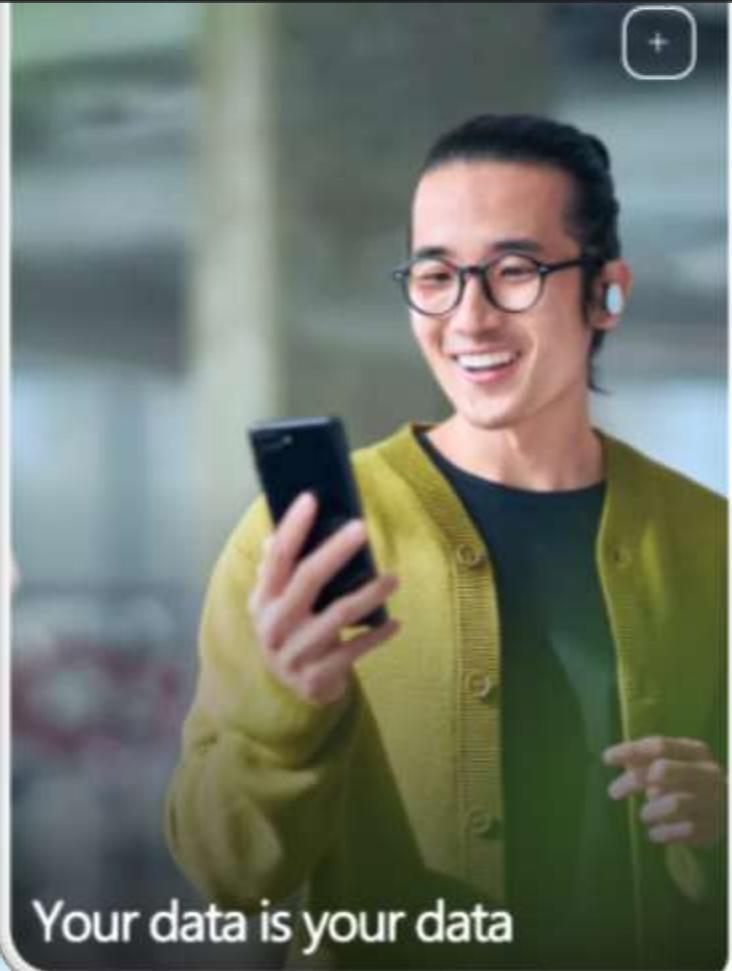
How world-class athletes are turning to the power of AI and data >

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 thoughtful expression. The background is a soft, out-of-focus grey.

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, light-colored hair, smiling broadly. The background is a warm, orange-toned gradient.

News Secure Future Initiative (SFI) - 7 min read

Security above all else—expanding Microsoft's Secure Future Initiative

By Charlie Bell, Executive Vice President, Microsoft Security

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

- ❖ [Microsoft Entra Suite](#) :: Generally Available
- ❖ [Microsoft Security Service Edge](#)
- ❖ [Figma Variables and new Components in SharePoint Web UI Kit](#)
- ❖ [SharePoint in-depth learning content](#)
- ❖ [June 2024 update on Azure AD Graph API retirement](#)
- ❖ [Windows IT Pro Blog](#)
- ❖ [Microsoft Entra \(Azure AD+\) Blog](#)
- ❖ [Microsoft OneDrive Blog](#)
- ❖ [Microsoft SharePoint Blog](#)
- ❖ [M365 Technical Documentation](#)

Customer stories Intune Enterprise · Published June 12, 2024 · 5 min read

How to achieve cloud-native endpoint management with Microsoft Intune >

In this post, we're focusing on what it really takes for organizations to become fully cloud-native in endpoint management—from the strategic leadership to the tactical execution.

Copilot for Microsoft 365 – Support Tips, Part 2

[Read Stories](#) on Jun 18 2024 09:00 AM

This blog provides technical tips from support perspective for planning and deployment of Copilot in a M365 organization...

Skilling snack: Windows Autopilot device preparation

[Hung_Dang](#) on Jul 11 2024 10:00 AM

Learn about the new Windows Autopilot device preparation feature.

Microsoft 365 data residency offerings now available in...

[Scott.Schnell](#) on Jun 11 2024 09:22 AM

Customers in Spain now have new options for managing the location of their Microsoft 365 data

Microsoft Entra certificate-based authentication...

[Alex_Weinet](#) on Jul 03 2024 09:00 AM

Learn about new user experience enhancements for CBA, including the issuer hints feature.

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: SharePoint Premium content AI Graph API in Beta (formerly known as Syntex)	Preview Available: May 2024 Rollout Start: June 2025
Outlook: Support for Exchange On-Premises Servers	Rollout Start: July 2024
Microsoft Teams: Enhanced sound notification controls	Rollout Start: July 2024
Microsoft Teams: Turn On/Off notifications for a post	Rollout Start: July 2024
Microsoft Teams: Custom emojis and reactions	Rollout Start: July 2024
Microsoft Teams: Hiding of inactive channels	Rollout Start: July 2024
Microsoft Planner: eDiscovery Support for Microsoft Planner	Rollout Start: July 2024
Microsoft Teams: Message result suggestions when typing to search	Rollout Start: July 2024
Microsoft Teams: View attachments for Meetings in Teams Calendar	Rollout Start: July 2024
SharePoint: Enhancements to the Text web part	Preview Available: May 2024 Rollout Start: July 2024
Microsoft Purview compliance portal: Data Loss Prevention for endpoints - Optical Character Recognition (OCR) on Mac Endpoints	Preview Available: May 2024 Rollout Start: July 2024
Microsoft Teams: Speaker recognition and attribution for all Teams Rooms on Windows	Rollout Start: July 2024
Microsoft Teams: Teams devices - Cancel scheduled device operations through Teams admin center	Rollout Start: July 2024
Microsoft Teams: Channel cards	Rollout Start: July 2024
Microsoft Teams: Transfer Teams calls to mobile calls	Rollout Start: July 2024
Microsoft Teams: Webinar presenter orderability on event page	Rollout Start: July 2024
Microsoft Teams: Control your mic state during meetings from Windows taskbar available in the new Teams on Windows	Rollout Start: June 2024
Microsoft Teams: Draggable Presenter Toolbar while screensharing	Rollout Start: June 2024
Microsoft Teams: Teams meeting recordings will be saved to meeting organizer's OneDrive for Business	Rollout Start: June 2024
Microsoft Teams: Easily manage Do Not Disturb presence status when screen sharing	Rollout Start: June 2024



Microsoft Teams Blog:



What's New in Microsoft Teams | June 2024

What's New in Microsoft Teams | June 2024

Pete.Daderko on Jun 28 2024 08:00 AM

In June, we introduced exciting enhancements to Microsoft Teams. I regularly use Copilot compose to help make my draft m...



Enhance productivity with devices certified for Microsoft...

Francisco.Ortiz on Jun 19 2024 08:00 AM

Microsoft Teams is the hub for teamwork, enabling effortless communication and collaboration. By using devices certified...

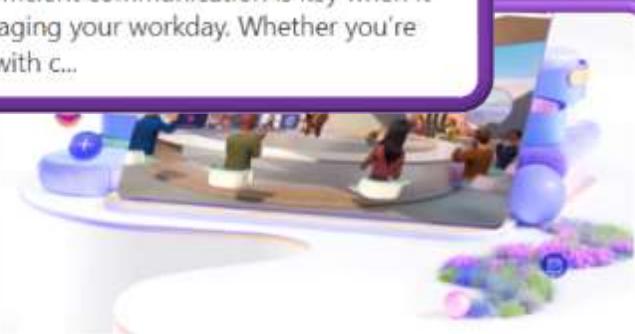


Prompt Like a Pro: Transform your messages with Microsoft Copilot in Teams

Prompt Like a Pro: Transform your messages with Microsoft...

Ivaladares on Jun 20 2024 08:00 AM

Effective and efficient communication is key when it comes to managing your workday. Whether you're collaborating with c...



From Pixels to Presence: New Features Coming to Microsoft...

Avery.Salumbides on Jun 18 2024 08:00 AM

In January, we announced the general availability of Mesh in Teams. We launched with the promise of unlocking deeper eng...



The future of Microsoft Teams in VDI

MSET.Fenk on Jun 25 2024 03:00 PM

Today we embark on another chapter of the Microsoft Teams story in VDI, with the public preview of a new optimization ar...



Upcoming changes for creating and managing Teams Phone...

DanielaChesron on Jun 18 2024 08:00 AM

Microsoft Teams Phone is a cloud-based phone system that enables smart communication and effortless collaboration for Te...



What's new from Teams Rooms and Devices at InfoComm 2024

KellyJohnson on Jun 13 2024 08:30 AM

In our conversations with customers and partners, two themes consistently emerge: the impact of AI at work and the chall...



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

Organization's Social
Network

centralized communication
to the organization

Workplace Analytics
& Feedback

Short, more frequent surveys
from **smaller teams to their managers**

less frequent **Organization wide** surveys
for employee experience, onboarding, etc.

Goal Setting &
Management

Learning and
Knowledge Management

connecting employees to
knowledge and expertise

Customer &
Sales Insights

[ON DEMAND | Viva in-depth:
Learning content](#)

Microsoft Viva brings together the tools
and applications leaders...

[What's New in Viva Pulse – July
2024](#)

Hello everyone! As we head into the
summer season, we're thrilled...

[Copilot features in the Viva Insights
advanced app](#)

Copilot's private preview for analysts in
the analyst workbench h...

[July 2024 Viva Glint release updates](#)

Product updates, new guidance,
trainings, and upcoming events!&nb...

[Copilot Deployment Kit in Viva
Amplify now generally av...](#)

We are excited to announce the general
availability of the Copilo...

[What's new in Viva Insights](#)

New features include updates to the
Copilot dashboard, data eges...

[Viva Topics: Updated Adoption Guide and a
New Pilot Guides](#)

Tehzeeb on Jun 12 2023 02:37 PM

Access the updated Adoption guide and the new Pilot
guide for Microsoft Viva Topics to enable Viva Topics
across your or...

[July 2023 – Introducing Viva Topics
lightweight management...](#)

Tehzeeb on Jul 05 2023 09:37 AM

We are excited to announce lightweight management
of manually created topics outside the Viva Topics
license for #Micros...

Microsoft Power Platform :: Power Platform Blog



Jun 26 • 5 min read

How Microsoft Power Platform is driving real-world impact—April and May customer success stories >

Innovative organizations worldwide harness Microsoft Power Platform to revolutionize operations and achieve exceptional outcomes. Our customer stories underscore the significant impact of this technology across diverse industries, highlighting its role in fostering creativity and efficiency.

Copilot Studio • Jun 26 • 6 min read

Microsoft Copilot Studio and the role of conversational AI in your organization's IT strategy >

By [Jack Rowbotham](#)

As organizations navigate the ever-evolving digital transformation landscape, conversational AI emerges as a powerful tool that can drive strategic outcomes, enhance customer engagement, and streamline operations.

Power Apps Dataverse • Published June 27, 2024 • 2 min read

Developer environment and plan now available in Sovereign clouds >

We're thrilled to announce that the Power Apps Developer Plan is now available in sovereign clouds starting with GCC and later this year will be available in GCCH and DOD. Developer Plan is needed to get Developer Environments, which offer personalized spaces for makers to experiment, innovate, and build.



Visit our product blogs:

[Power BI](#)

[Power Automate](#)

[Power Virtual Agents](#)

[Power Apps](#)

[Power Pages](#)

Jun 6 • 4 min read

Celebrating a year of innovation: Announcing the Microsoft Power Platform templates Cookbook Challenge >

In today's fast-paced digital landscape, enterprise organizations are grappling with an ever-expanding application backlog, with one billion new apps expected to be built by 2028. However, there are only four million developers in the United States.

New Features • Published July 2, 2024 • 7 min read

What's new in Power Apps: June 2024 Feature Update >

This month we're excited to share collaboration updates for canvas, the release of the Copilot enabled ERD view and Catalog, key updates for security and a huge set of Learning and Documentation updates.

Copilot Studio • Jul 1 • 5 min read

Improving customer and employee experiences with Microsoft Copilot Studio >

By [Jack Rowbotham](#)

As we venture further into 2024, AI transcends its role as a mere technological asset and emerges as a pivotal element of strategic innovation.

Design Studio Power Pages • Published June 13, 2024 • 1 min read

Use Power Fx in Power Pages for authoring dynamic content >

We are excited to announce Power Pages native support for Power Fx, a powerful low-code formula language for the Power Platform. This capability enables Power Pages makers and developers with a low-code language for authoring dynamic content within their websites.

Power Platform and Dynamics

Roadmaps and Release plans:



[Business Decision Makers](#) · Jul 01 · 2 min read

Microsoft Dynamics 365 Contact Center is now generally available >

Today, we are excited to announce that Dynamics 365 Contact Center is generally available, offering a complete but fully-composable solution for contact centers.



Send an email to responder when response submitted in Microsoft Forms

By Microsoft Power Automate Community

Automated
408171



Request manager approval for a selected file



Save Office 365 email attachments to specified OneDrive for Business folder

By Microsoft Power Automate Community

Automated
245326

IT Professionals

[News and product updates](#)

Dynamics 365 Field Service

• Jun 17 • 3 min read

Dynamics 365 Field Service announces the new Crew Allocation Tool, which enables the "Morning Shuffle" >

Being able to efficiently and effectively manage your resources is key to Dynamics 365 Field Service. Today, we introduce a new Crew Allocation Tool to streamline the process of making single-day membership changes to all your crews. We've heard from users that it can be tedious to manually go into crew records, take a resource

IT Professionals

[News and product updates](#)

Dynamics 365 Supply Chain Management

• Jun 24 • 7 min read

AI summarization in Dynamics 365 synthesizes and simplifies complex data >

As enterprises are asked to manage increasingly complex data environments, the generative AI summarization capabilities of Copilot in Microsoft Dynamics 365 streamline operations by synthesizing complex data from multiple sources across Supply Chain Management, Finance, Commerce, and Human Resources.

[IT Professionals](#) · Jul 08 · 2 min read

Improve Mobile Offline performance with Offline Table Column Selection >

Choosing columns for Dynamics 365 Field Service Mobile offline mode enhances Offline sync performance and user experience.

Business Decision Makers

Customer stories

Dynamics 365 Sales

• Jun 18 • 5 min read

Ernst & Young reinvents sales globally with Microsoft Dynamics 365 >

For Ernst & Young Limited (EY), one of the "Big Four" of the largest accounting firms worldwide, their sales transformation journey started with Microsoft Dynamics 365 Sales.

Business Decision Makers

[News and product updates](#)

Dynamics 365 Project Operations

• Jun 26 • 3 min read

Discover the power of Copilot in Dynamics 365 Project Operations for faster time entry >

For service-centric organizations, Dynamics 365 Project Operations, enriched with Copilot capabilities, is the key to managing the entire lifecycle effectively—from initial client engagement to project completion and beyond.

[News and product updates](#) · Jun 27 · 2 min read

Use expanded Copilot for Service capabilities in your CRM >

Developer and GitHub

GitHub Blog and Changelog

- GitHub Copilot Enterprise on GPT-4o
- Dependabot migration to GitHub Actions for Enterprise Cloud and Free, Pro, and Teams accounts with Actions enabled
- Code security configurations
- Improved detection of existing CodeQL setups during at scale rollouts
- Sunsetting security settings defaults parameters in the organizations REST API
- Copilot knowledge bases in Visual Studio :: Preview
- What's New in Mobile, June Update
- Secret scanning bypass controls for push protection covers pushes from the web file editor
- GitHub Actions: GPU hosted runners :: Generally Available
- Secret scanning validity checks :: Generally Available



Microsoft Developer Blogs:

- Demystify history with GitHub Copilot commit explanations
- Code Assessment with .NET Upgrade Assistant
- Visual Studio 2022 – 17.10 Performance Enhancements
- Why and How to Execute GraphQL Queries in .NET
- .NET and .NET Framework July 2024 servicing releases updates
- Announcing Third Party API and Package Map Support for .NET Upgrade Assistant
- Using Phi-3 & C# with ONNX for text and vision samples
- Privacy and security improvements in .NET modernization tooling

Secure your Python applications with Microsoft Entra External ID

July 11, 2024

Arbaaz Abdulwahid

Integrate Microsoft Entra External ID with your Python Flask applications for secure user authentication. By leveraging External ID, you can securely manage access for external identities like business partners and customers, create custom branded sign-up experiences, and simplify user management. Follow this step-by-step guide to set up and run a sample Flask application using the Microsoft Authentication Library (MSAL).

Introducing Python Function Choice Behavior: Streamlining AI Model Configuration

July 11, 2024

Sophia Lagerkrans-Pandey, Evan Mattson

Introducing Function Choice Behavior Today, we're excited to introduce the Function Choice Behavior, an enhancement over the existing Function Call Behavior. This new feature streamlines configuration and supports specifying multiple required functions, simplifying code and enhancing functionality. One significant advantage of ...

Education

Beginner's guide to GitHub: Uploading files and folders to GitHub

The next step in our GitHub for Beginners series is learning how to add files and folders to your GitHub repository.

Kedasha Kerr

July 8, 2024



Engineering

Unlocking the power of unstructured data with RAG

Unstructured data holds valuable information about codebases, organizational best practices, and customer feedback. Here are some ways you can leverage it with RAG, or retrieval-augmented generation.

Nicole Choi

June 13, 2024

Execute commands by sending JSON? Learn how unsafe deserialization vulnerabilities work in Ruby projects

Can an attacker execute arbitrary commands on a remote server just by sending JSON? Yes, if the running code contains unsafe deserialization vulnerabilities. But how is that possible? In this blog post, we'll describe how unsafe deserialization vulnerabilities work and how you can detect them in Ruby projects.

Peter Stöckli June 20, 2024

Securing Git: Addressing 5 new vulnerabilities

Git is releasing several new versions to address five CVEs. Upgrading to the latest Git version is essential to protect against these vulnerabilities.

Johannes Schindelin May 14, 2024

How we improved push processing on GitHub

Pushing code to GitHub is one of the most fundamental interactions that developers have with GitHub every day. Read how we have significantly improved the ability of our monolith to correctly and fully process pushes from our users.

Will Haltom June 11, 2024

Exploring the challenges in creating an accessible sortable list (drag-and-drop)

Drag-and-drop is a highly interactive and visual interface. We often use drag-and-drop to perform tasks like uploading files, reordering browser bookmarks, or even moving a card in solitaire.

Kendall Gassner July 9, 2024

Office Developer Blogs and Microsoft 365 Dev Center



Microsoft

Retirement of Office 365 connectors within Microsoft Teams

Microsoft Teams

Retirement of Office 365 connectors within Microsoft Teams

July 3, 2024

Connor Rodewald, Trent Hazy

Starting August 15, 2024 we will be retiring the Office 365 connectors feature from Microsoft Teams and recommend Power Automate workflows as the solution to relay information into and out of Teams in a scalable, flexible, and secure way.

Microsoft

Fast and compliant routing in Azure Fluid Relay

Azure Fluid Framework

Fast and compliant routing in Azure Fluid Relay

July 2, 2024

Pradeep Vairamani

Learn about the optimal placement of the geographically distributed Azure Fluid Relay (AFR) servers and how we route the traffic to these servers.

Microsoft

Microsoft Graph PowerShell and CLI are now verified

Microsoft Graph PowerShell and CLI are now verified

June 28, 2024

Carol Mbasinge Kigoonya

Microsoft Graph PowerShell and CLI now have Microsoft set as the verified publisher.

Microsoft

Now available Dev Proxy v0.19

Dev Proxy v0.19 with simulating LLM APIs and new Azure API Center integrations

June 26, 2024

Waldek Mastykarz, Garry Trinder

We're excited to share the launch of Dev Proxy v0.19 to help you to build robust apps connected to APIs.

Microsoft

The present and future of Copilot extensibility: Top 10 takeaways from Build 2024

Microsoft Copilot

The present and future of Copilot extensibility: Top 10 takeaways from Build 2024

June 13, 2024

Lydia Fisher, Daniel Carrasco

Dive into our key announcements from Build to discover new pathways to extend, customize, and amplify Copilot capabilities.

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

- [Microsoft Teams webinar integration with HubSpot marketing automation](#)
- [Microsoft Teams hello world sample app.](#)
- [Build engaging apps for Microsoft Teams meetings with new content sharing capabilities](#)
- [Use Fluid DevTools to debug your web app](#)
- [Fluid Framework 2 is now production ready](#)
- [Build intelligent apps for Microsoft 365 with Teams Toolkit](#)
- [Microsoft Loop transforms the way developer teams work](#)
- [Java on Visual Studio Code Update - June 2024](#)
- [Join the Microsoft 365 Developer Program](#)



Build immersive experiences for the workplace with Microsoft Mesh

Mesh lets you create new customized, multi-user experiences to help virtual meetings and events feel more like face-to-face connections. Now, you can bring your 3D world-building skills to the global workforce, helping connect like never before.

[Learn more about Mesh >](#)

[Start your journey with Mesh >](#)



Use Microsoft Graph to power your app with data and insights from Microsoft 365

Access rich, people-centric data in the Microsoft Cloud via a single endpoint with the Microsoft Graph REST APIs and SDKs.

[Learn more about the Microsoft Graph REST API >](#)

[Try the API with Graph Explorer >](#)

Trends with Microsoft Industry Solutions



Updates from Microsoft Industry Blogs

July 09, 2024 · 7 min read

Supply chain AI for the new era of value realization ↗

Together, Blue Yonder and Microsoft are unlocking a new era of value for retailers with AI. With AI-powered solutions, retailers can empower their teams to make decisions base...

Telecommunications • Jun 17 • 7 min read

Microsoft's pioneering role in shaping the telecommunications landscape >

In the dynamic realm of telecommunications, Microsoft has emerged as a catalyst for change, fostering innovation and collaboration. Our longstanding partnership with the TM Forum and our contributions to the Open Digital Architecture (ODA) are a testament to our unwavering commitment to the industry's transformation.

Manufacturing and mobility • Jun 20 • 6 min read

6 findings from IoT Signals report: Manufacturers prepare their shop floor for AI >

Read on to discover the six key lessons learned from manufacturers rethinking their operations for AI and how Microsoft is supporting the factory of the future with Azure's adaptive cloud approach.

Manufacturing and mobility • Jul 11 • <1 min read

Innovating at the speed of AI: Microsoft's industry Copilot solutions >

Our commitment to innovation continues in our latest investment in industry-specific solutions that enable businesses to adopt and integrate AI technologies swiftly and efficiently.

How financial services firms are strengthening cyber resilience in a new regulatory environment >

Helping financial services businesses become more secure in a world of escalating threats is an area of special focus for Microsoft Cloud for Financial Services. We're working closely with customers, governments, and stakeholders across the industry to strengthen cybersecurity technologies and practices to protect against future attacks.

June 27, 2024 · 6 min read

Microsoft partners celebrate AI innovation >

Coming together in an ecosystem of energy innovation, Microsoft partners and customers are using the latest advances in AI to revolutionize the industry—decarbonizing traditional energy sources and increasing the efficiency and availability of renewable energy sources.

Central bank digital currencies: Accelerating a digital economy with advanced technology >

Many central banks are experimenting with the idea of issuing digital versions of national currency, in the form of central bank digital currencies. This new form of digital money is made possible by advanced technology, which Microsoft is helping to enable.

Jun 25 • 6 min read

How hollow core fiber is accelerating AI ↗

One of these technologies that was highlighted at Microsoft Ignite this past November was Hollow Core Fiber, an innovative optical fiber that is set to...

Taiwan hospital deploys AI copilot to lighten workloads for doctors, nurses and pharmacists

Taiwan hospital deploys AI copilot to lighten workloads for doctors, nurses and pharmacists Written by stclarke Published July 11, 2024 Category AI <!...





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.

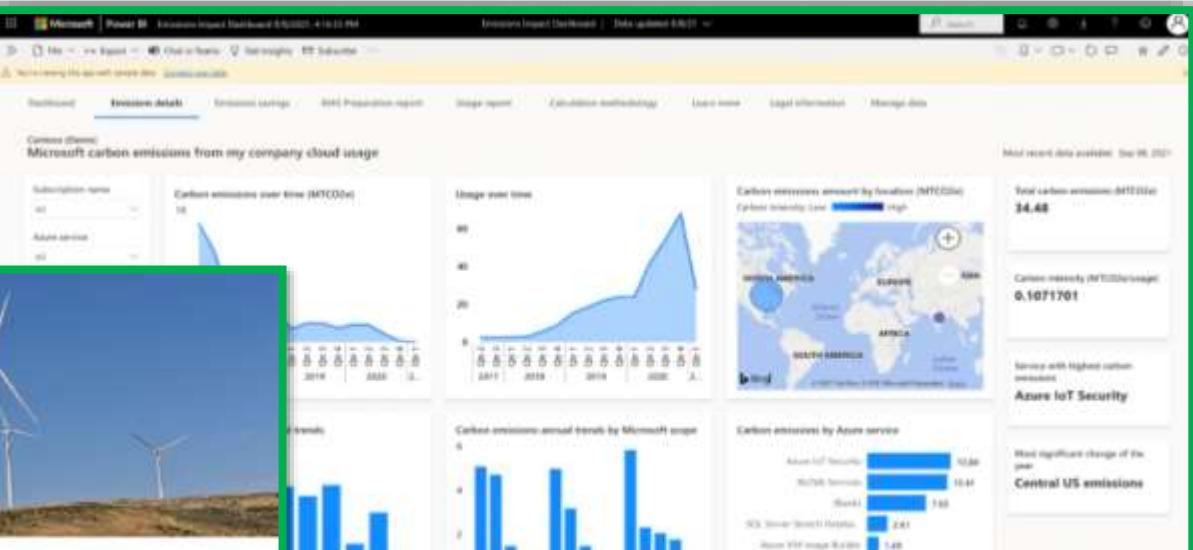
[Get started >](#)

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 >](#)



Leverage AI to simplify CSRD reporting >

Microsoft Cloud for Sustainability data solutions in Microsoft Fabric (preview) can help organizations take sustainability data in any format, organize, and normalize the data for sustainability regulatory reporting. This quantitative data reporting approach is complemented by a joint solution from Accenture and Avanade that leverages generative AI to provide qualitative insights.

[Sustainability • Jun 26 • 5 min read](#)

Simplify reporting with real-time insight into your sustainability progress >

In this blog, we explain how creating scorecards and goals empowers you to curate sustainability metrics and track against your organization's key business objectives. We also share other recent updates to Microsoft Cloud for Sustainability designed to help you manage, track, report, and gain better insight into your sustainability data.

How can we advance sustainability?

2024 Environmental Sustainability Report

Reporting on our 2023 fiscal year

2023 highlights

Carbon

Total renewable electricity use in FY23

23.6 million MWh

This would be enough to power Paris with renewable electricity for about two years.



- 19.8 gigawatts (GW) of renewable energy assets were contracted, including projects in 21 countries around the world.
- We contracted 5,015,019 metric tons of carbon removal in FY23, and continue to build a portfolio of projects, balanced across low, medium, and high durability solutions.

Water

Total contracted water replenishment since 2020

61.7 million m³

This is enough water to fill over 24,000 Olympic sized swimming pools.



- We met our water access target by providing more than 1.5 million people with access to clean water and sanitation solutions.
- Our new datacenters are designed and optimized to support AI workloads and will consume zero water for cooling.

Waste

Total amount of solid waste diverted from landfills and incinerators FY23

18,537 metric tons

This is equivalent to the weight of over 45 commercial passenger jets.



- 18,537 metric tons of solid waste were diverted from landfills and incinerators across our owned datacenters and campuses.
- Our reuse and recycle rates of servers and components across all cloud hardware reached 89.4% in FY23.
- We reduced single-use plastics in our Microsoft product packaging to 2.7% in FY23.

Ecosystems

Total amount of land protected in FY23

15,849 acres

This is equivalent to over 9,000 soccer pitches.



- 15,849 acres were designated as permanently protected. We exceeded our land protection target of 11,000 by more than 40%.
- Through the Microsoft Datacenter Community Environmental Sustainability program we are responding to local needs in the communities that host Microsoft datacenters and where our employees live and work.

How we work

Our sustainability journey starts with getting our own house in order. In 2020, we set bold targets to be a carbon-negative, water-positive, zero-waste company that protects ecosystems by 2030. We are committed to sharing our progress, challenges, and learnings through our annual Environmental Sustainability Report to help accelerate global progress toward net zero.

We recognize that our actions alone will not solve the climate crisis. As a global technology provider, we also believe we have a role to play in supporting the thousands of customers and partners who put their trust in Microsoft. We think about Microsoft's role in sustainability through three spheres of influence: Microsoft sustainability, customer sustainability, and global sustainability.



Microsoft sustainability:

Taking care of our own environmental footprint

Our sustainability work starts with taking accountability for our operational footprint. This means taking accountability for our operational footprint across our campuses, datacenters, devices, software, and value chain. We look at our operations across the entire life cycle of assets and products, from design to building, usage, and end of life. We are committed to sharing our learnings, accelerating markets, scaling solutions across our value chain, and being transparent about our progress.



Customer sustainability:

Delivering digital technology for net zero

Microsoft is committed to providing innovative digital technology to help build a more sustainable world. From managing environmental footprints with Microsoft Cloud for Sustainability to accelerating innovation for new climate technologies, we're working to empower our customers and partners across industries. We are advancing greener software and reducing carbon intensity to improve device sustainability, and helping organizations measure and manage the health of the planet's natural ecosystems with the Microsoft Planetary Computer.



Global sustainability:

Enabling a more sustainable world

Microsoft's actions alone cannot solve the climate crisis. As a global technology leader, we are also committed to helping build the enabling societal conditions that will support a net zero economy. We're focused on accelerating the availability of new climate technologies, strengthening our climate policy agenda, helping to develop a more reliable and interoperable carbon accounting system, advocating for skilling programs to expand the green workforce, and working to help enable a just energy transition.

Azure



Azure Updates

Azure Blog

[Partnerships](#) · Jun 12 · 5 min read

Azure OpenAI Service: Transforming legal practices with generative AI solutions >

By [Andy Beatman](#), Director of Product Marketing, Azure AI

The integration of Microsoft Azure AI Services is assisting legal professionals in managing data, conducting reviews, and offering services. The impact of AI technologies on the legal industry will grow, driving greater efficiencies and yielding better outcomes for all stakeholders.

[AI + machine learning](#) · Jul 3 · 4 min read

10 ways to impact business velocity through Azure OpenAI Service >

By [Andy Beatman](#), Director of Product Marketing, Azure AI

The Future of VMware Is in Azure

Tuesday, July 16, 2024

Join The Future of VMware Is in Azure digital event on July 16 for a deep dive into strategies and solutions for VMware workloads with Azure VMware Solution—offering cost savings and the fastest path to the cloud.

[Register now >](#)



[Thought leadership](#) · Jun 26 · 6 min read

Build exciting career opportunities with new Azure skilling options >

By [Deepa Athre](#), Director, Product Marketing, Azure Skilling GTM

Microsoft Build is more than just a tech conference—it's a celebration of innovation, a catalyst for growth, and a gateway to unlocking your professional potential through skilling opportunities on Microsoft Learn.

[Customer stories](#) · Jul 3 · 5 min read

Build your own copilot with Microsoft Azure AI Studio >

By [David Seda](#), General Manager, Azure AI

No matter your use case, Microsoft Azure AI Studio accelerates the generative AI development lifecycle, empowering organizations to build and shape the future with AI.

[Partnerships](#) · Jun 13 · 4 min read

Microsoft and ServiceNow at Knowledge 2024: Introducing generative AI innovation >

By [Katharine Kennedy](#), Global General Manager, Microsoft

Microsoft is proud to partner with ServiceNow, a leader in digital workflows and generative AI, to create seamless and powerful experiences that empower every organization on the planet to achieve more.

Updates & Announcements

- ❖ [support on Apple Silicon Macs :: Generally Available](#)
- ❖ [Encryption using Customer Managed Keys for Backup Vaults](#)
- ❖ [Backup and restore of virtual machines with private endpoint enabled disks](#)
- ❖ [Advanced Network Observability for your Azure Kubernetes Service clusters through Azure Monitor :: Public Preview](#)
- ❖ [Azure Site Recovery support for Azure Trusted Launch VMs \(Windows OS\)](#)
- ❖ [Run your Databricks jobs with serverless compute for workflows](#)
- ❖ [DLT with serverless compute](#)
- ❖ [Cisco Firepower Threat Defense \(FTD\) integration with Virtual WAN :: Public Preview](#)
- ❖ [Azure CDN Standard From Microsoft \(classic\) zero-downtime migration to Azure Front Door :: Public Preview](#)
- ❖ [Online migration for MongoDB in Azure Data Studio](#)
- ❖ [Onco-Phenotype model within Azure AI Health Insights :: Retirement](#)
- ❖ [Spain Central region added to Azure HDInsight](#)
- ❖ [ED25519 SSH key support for Linux virtual machines :: Public Preview](#)
- ❖ [Continuous Performance Diagnostics for Windows VMs to enhance VM Troubleshooting](#)
- ❖ [New Azure Advisor recommendations for Azure Database for PostgreSQL - Flexible Server](#)
- ❖ [IOPS scaling for Azure Database for PostgreSQL - Flexible Server](#)
- ❖ [JavaScript \(JS\) Challenge on Azure WAF integrated with Azure Application Gateway :: Public Preview](#)



Azure Services Directory



Azure AI Model Catalog

Discover, evaluate, customize, and deploy AI models

Azure AI Model Catalog

- ❖ [Innovate faster using foundation models packed for out-of-the-box-usage](#) and shared compute resources.
- ❖ [Easily integrate AI models into your applications without having to provision or manage infrastructure](#).
- ❖ [Analyze model metrics with standard datasets](#) and find the right models to meet your needs.
- ❖ [OpenAI, Phi-3, Meta, Mistral AI, Cohere, Hugging Face, Stability AI, Core42](#) (A G42 Company), [Nixta](#) available in the catalog, with more to come
- ❖ [Built-in Security and Compliance](#)
- ❖ [Explore AI models by task and use the playground](#) to experiment with sample queries.
- ❖ [Accelerate AI projects with ready-to-use fine-tuning pipelines](#)—no setup needed.



Phi-3 Open Models

A family of powerful, small language models (SLMs) with groundbreaking performance at low cost and low latency

Phi-3 Open Models

- ❖ Redefining what's possible with SLMs (Small Language Models)
- ❖ Lower resource use – designed for local deployments
- ❖ Deploy at edge to deliver fastest response in Latency-Bound scenarios
- ❖ Operate effectively in offline environments where data privacy is critical, or connectivity is limited.
- ❖ Fine-tuning SLM models with domain-specific data
- ❖ Phi-3 models were developed in accordance with Microsoft AI principles: accountability, transparency, fairness, reliability and safety, privacy and security, and inclusiveness.
- ❖ Phi-3 models are available for free for real-time deployment through the Azure AI model catalog. They're also available on Hugging Face and Ollama.



Azure Communication Services

Build multichannel communication experiences

Azure Communication Services

- ❖ Azure Communication Services offers multichannel communication APIs for adding voice, video, chat, text messaging/SMS, email, and more to all your applications.
- ❖ Certified compliant communication platform to meet your business needs, including HIPAA, GDPR, and SOC 2 standards
- ❖ Open-source SDKs to create engaging experiences, and seamless communication interoperability with Microsoft Teams
- ❖ [Build custom app experiences connected to Microsoft Teams](#)
- ❖ [Build a sample virtual appointment app in minutes](#)
- ❖ [Deliver reliable enterprise-grade calling, chat, and messaging capabilities from a global, low-latency network](#)
- ❖ Automatically scale to meet your demands.

Azure Services Directory



Microsoft Genomics

Power Genome Sequencing and Research Insights

Microsoft Genomics

- ❖ Cloud implementation of [Burrows-Wheeler Aligner](#) (BWA) and the [Genome Analysis Toolkit](#) (GATK) for secondary analysis
- ❖ ISO-certified and covered by Microsoft under the [HIPAA BAA](#)
- ❖ Global coverage to meet your data sovereignty needs
- ❖ Only pay for what you use with no commitment
- ❖ [Easy-to-use API for integration with partner solutions](#)
- ❖ [Cromwell on Azure](#), users can accelerate their genomic research with the hyperscale compute capabilities of Azure
- ❖ Leverage [Genomics Notebooks in GitHub](#) for faster results



Azure Health Bot

A managed service purpose-built for development of virtual healthcare assistants

Health Bot

- ❖ Build AI-powered healthcare experiences at scale
- ❖ Empowers developers in healthcare organizations to build and deploy AI-powered, compliant, conversational healthcare experiences at scale.
- ❖ Create health bots using built-in medical knowledge bases, triage protocols and language models trained to understand clinical terminology
- ❖ Leverage privacy and security mechanisms to align with industry compliance requirements
- ❖ Authenticate and integrate with EMR data using FHIR data connections to personalize patient flows



Azure Health Data Services

Unify and Manage Health Data and Protected Health Information (PHI)

Azure Health Data Services

- ❖ Purpose-built suite of technologies for protected health information (PHI) in the cloud
- ❖ Evolved Azure API for FHIR and offers additional technology and services.
- ❖ Quick deployment of managed, enterprise-grade [FHIR](#), [DICOM](#), and [MedTech services](#)
- ❖ Connectors to [Azure Synapse Analytics](#), [Azure Machine Learning](#), and [Power BI](#) to generate insights from real-world data
- ❖ Azure Health Data Services is [HITRUST CSF certified](#), store PHI in accordance with HIPAA and GDPR requirements and meet ONC and CMS mandates

Azure Services Directory



Azure Modeling and Simulation Workbench

Securely collaborate on research and engineering projects in an on-demand workspace

Azure Modeling and Simulation Workbench

- ❖ On-demand customizable research and engineering environment with automated resource provisioning and deprovisioning
- ❖ Secure, private workspace for disparate teams to co-design and share intellectual property (IP)
- ❖ Built-in data provenance, security, and governance features for end-to-end supply chain security
- ❖ [Get Started with Modeling and Simulation Workbench](#)
- ❖ Performant platform optimized for research and engineering workloads with the ability to scale out compute and storage

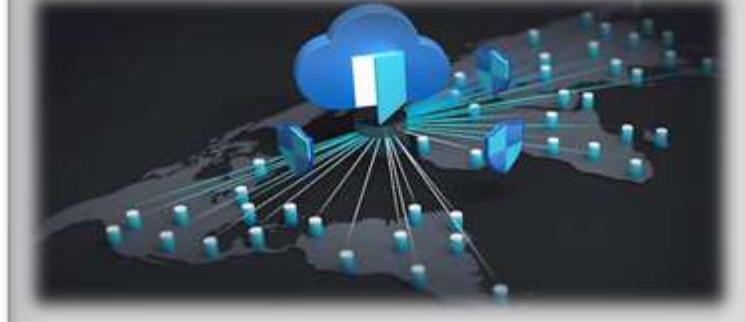


Azure Trusted Signing

Secure your applications with a fully managed end-to-end signing service for code, documents, applications, and more

Azure Trusted Signing

- ❖ Protect your applications with certificates that are fully managed through certificate authorities
- ❖ Start signing with minimal effort using a service that's managed as an Azure resource
- ❖ Flexible options and support for Public Trust, Private Trust, and Test Trust signing.
- ❖ Simplify certificate management with a fully managed service that protects and maintains Microsoft certificate authorities.
- ❖ Create seamless workflows and user experiences with familiar developer toolsets and broad file type support.
- ❖ Stay compliant and secure with both role-based access management in Azure and private keys secured with FIPS 140-2 Level 3 compliance.



Azure Programmable Connectivity :: Preview

Simplify network API management across multiple operator networks globally with a unified interface

Azure Programmable Connectivity

- ❖ Ensure code consistency and reliability, even as networks continue to evolve, without worrying about underlying network changes.
- ❖ Provide a unified standard interface across operator networks globally while abstracting the complexities of network APIs.
- ❖ SIM Swap : Check the last time that a SIM card was changed to prevent fraud.
- ❖ Number Verify : Seamlessly authenticate mobile devices to eliminate one-time password friction.
- ❖ Device Location : Verify geographic device location when GPS is not available.
- ❖ Quality on Demand : Guarantee reliable stable connection for critical applications when there is network congestion.

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 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 Testing :: PreviewPlaywright

- ❖ 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

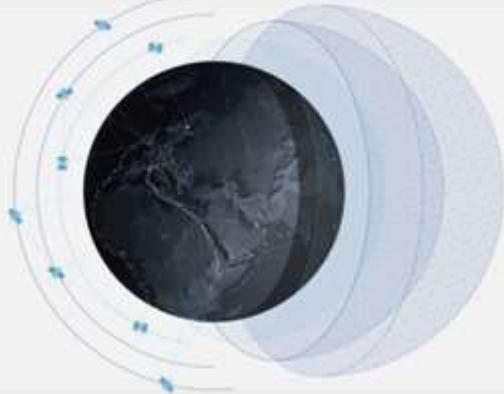
Monitor, allocate, and optimize cloud costs with transparency, accuracy, and efficiency

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.

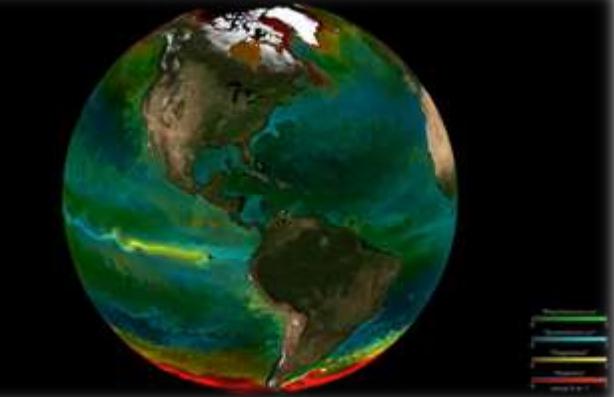


Azure Orbital Ground station

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



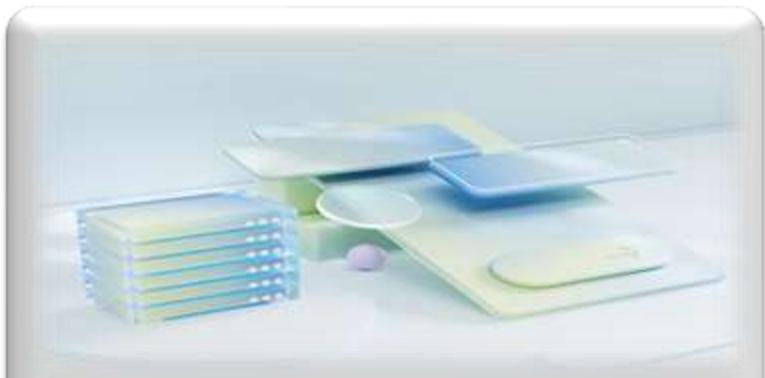
Microsoft Planetary Computer

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 Managed Confidential Consortium Framework

Build Enterprise-grade, consortium-style stateful services and decentralized-trust applications with a common source of truth.

Azure Managed Confidential Consortium Framework

- ❖ Create enterprise operating models with transparent, programmable governance and hardware-backed integrity for logic and data.
- ❖ Ensure that transactions are confidential by default and logged with verifiable cryptographic proofs.
- ❖ Boost performance with database-like throughput, low latency, high availability, and disaster recovery.
- ❖ Governance, Built-in Verifiable History, Developer-Friendly Languages, Hardware-Based Security, and High-Availability and Resiliency

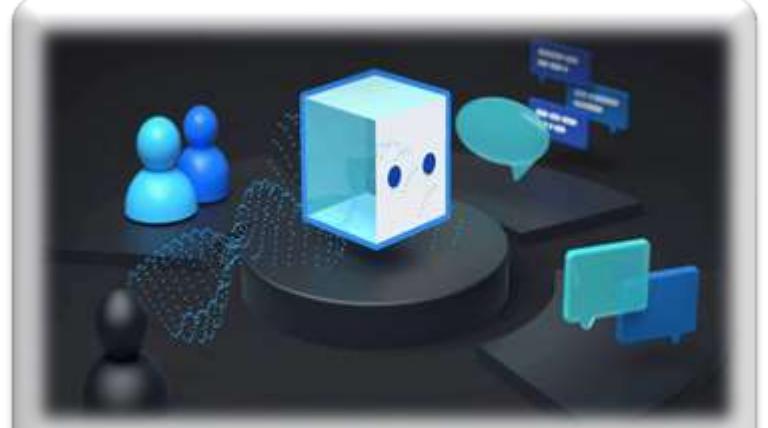


Azure Data Manager for Agriculture :: Preview

Create a more sustainable future by innovating with agriculture data

Azure Data Manager for Agriculture

- ❖ Accelerating innovation across the [agriculture value chain](#)
- ❖ Extends the Microsoft Intelligent Data Platform with industry-specific data connectors and capabilities to connect farm data from disparate sources.
- ❖ Provide predictive insights and promote sustainable farming practices with applications built on agronomic data.
- ❖ Optimize operations across the agri-food value chain
- ❖ Data connectors for imagery, equipment, weather, sensors, and more, with the ability to bring your own license.
- ❖ Harness abundant farm data to build solutions that increase productivity, reduce risk, and drive better decision making
- ❖ high-quality farm data and leverage a cloud foundation designed for security and compliance.



Azure AI Bot Service

Design and Build enterprise-grade AI Bots

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

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.

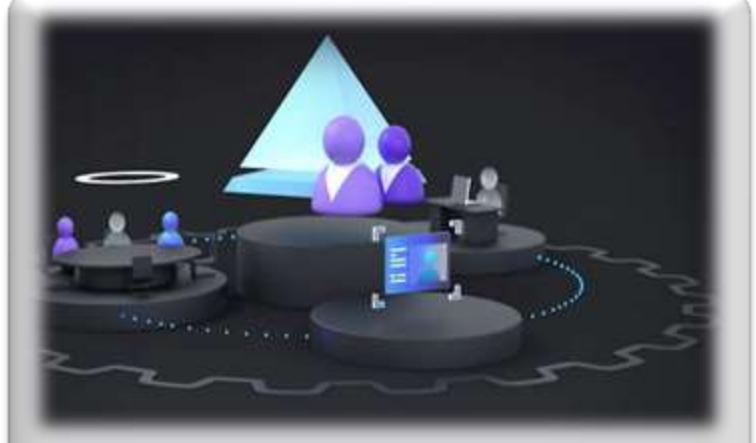


Azure AI Studio

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 Microsoft Entra

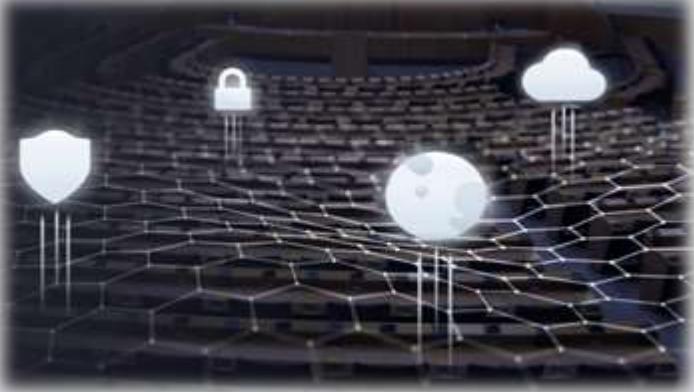
Cloud identity, access, management, and security

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

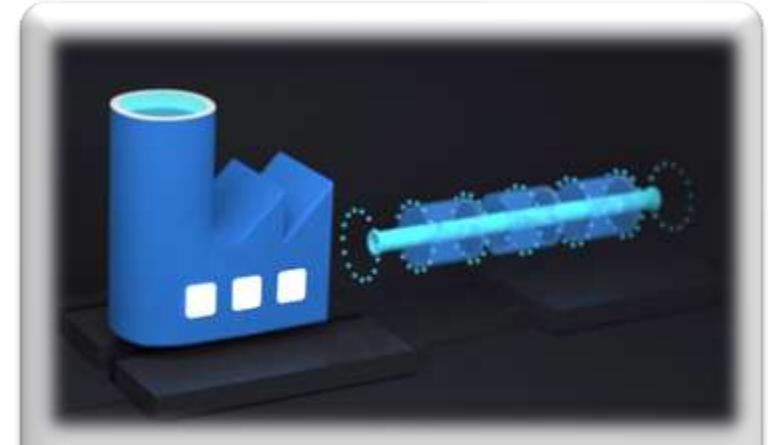


Azure AI Document Intelligence

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

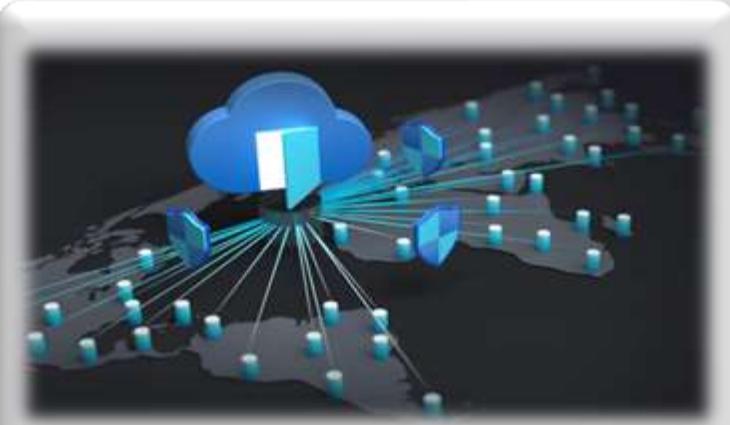


Microsoft Purview

Govern, protect, and manage your data estate

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](#)

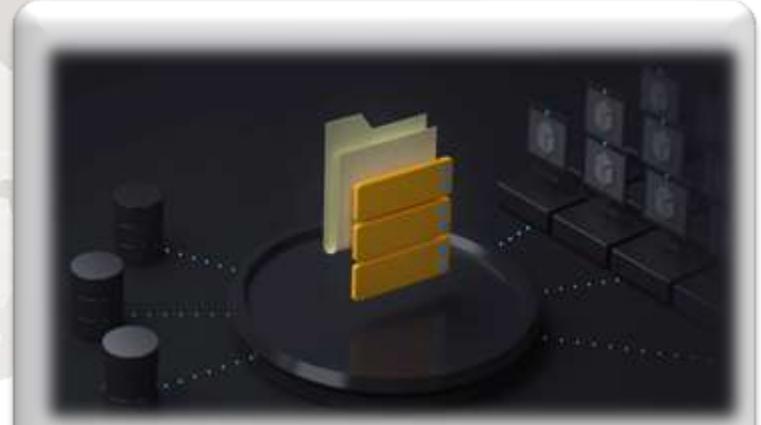


Microsoft Azure Attestation

Unified solution for remotely verifying the trustworthiness of a platform and integrity of the binaries running inside it

Azure Attestation

- ❖ Verify the identity and security posture of a platform before you interact with it
- ❖ Receive evidence from the platform and validate it with Security Standards
- ❖ Produce an attestation token for claims-based applications
- ❖ Supports Trusted Platform Modules (TPMs) and Trusted Execution Environments (TEEs) like Intel Software Guard Extensions (SGX) and Virtualization-based Security (VBS) enclaves
- ❖ Enforces customized Attestation Policies



Avere vFXT for Azure

Run High-Performance, File-based workloads in the cloud

Avere vFXT for Azure

- ❖ Process large datasets – terabytes to petabytes – quickly in Azure
- ❖ Automatically identify and cache active data for demanding workloads
- ❖ File-based applications access Azure through NFS, SMB or Azure Blob storage (REST)
- ❖ Supports Hybrid-Cloud and Cloud bursting architectures
- ❖ Used for visual effects rendering, life science, and HPC workloads

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](#)



Microsoft Fabric: Next Generation Analytics

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 displays the Microsoft Fabric platform interface. At the top, there's a banner with the text "DIFFERENTIATORS" and four key features: "Complete data platform", "Lake-centric and open", "Built for a data culture", and "Powered by AI". Below this, there are three main sections: "Overview", "Single experience", and "Governance and security". Under "Governance and security", there's a section titled "Unified capacity" which includes a sub-section about simplifying billing and reducing costs with a single pool of capacity and storage for every workload. To the right of these sections, a large dashboard shows "Premium Capacity Usage and Resource Utilization" with various charts and data tables. Below this, there are several cards for different services:

- Data engineering**: Design systems to help you organize and analyze large volumes of data. [Learn how](#)
- Data science**: Use AI tools to build end-to-end workflows, enrich data, and improve insights. [Learn how](#)
- Data warehouse**: Scale compute and storage independently with industry-leading SQL performance. [Learn how](#)
- Real-time analytics**: Explore and analyze large volumes of streaming data in real-time with high performance and low latency. [Learn more](#)
- Data monitoring and action**: Drive timely actions by creating automated monitoring systems to detect patterns and changes. [Learn more](#)
- Business intelligence**: Turn your data into visually immersive, interactive insights and embed them in Microsoft 365. [Learn more](#)

On the left side of the interface, there's a sidebar with navigation icons for Home, Create, Workspaces, Data, Metrics, Alerts, Log Analytics, Runbooks, Admin, Configuration, Metrics, Reports, Dashboards, Models, Databases, and Query. The main workspace area shows a summary of data items: 16 Workspaces, 332 Datasets, 11 SQL Endpoints, 70 Notebooks, 17 LLS, 21 Reports, 37 LAs, 49 Datasets, 66 Databases, 11 Experiments, 10 Dashboards, 10 Models, 10 Databases, and 10 Querysets. There are also charts for "Endorsed items by workspace" and "Certified vs Promoted items".

Showcase Blog



Microsoft Showcase Series

Jun 28, 2024 | Lukas Velush

[Boosting employee device procurement at Microsoft with better forecasting](#)

Device forecasting at Microsoft has allowed the company to plan for new hires, replace out-of-warranty devices for existing employees, and respond to major events, like the release of Windows 11. As a result, we've been able to strategically acquire equipment in a more efficient way. It all started with a shift to remote work. "New..."

Jun 14, 2024 | Lukas Velush

[Unlocking the potential of Copilot for Microsoft 365 at the role level](#)

Copilot for Microsoft 365 Deployment and Adoption Guide
Read our step-by-step guide on deploying Copilot for Microsoft 365 at your company. It's based on our experience deploying it here at Microsoft. Full version eBook version Version for executives eBook version for executives There's no question: Copilot for Microsoft 365 is changing how work gets done...

Jun 27, 2024 | Lukas Velush

[Driving Copilot for Microsoft 365 adoption with an assist from Microsoft Viva](#)

Copilot for Microsoft 365 Deployment and Adoption Guide
Read our step-by-step guide on deploying Copilot for Microsoft 365 at your company. It's based on our experience deploying it here at Microsoft. Full version eBook version Version for executives eBook version for executives Effective adoption doesn't happen by accident. It takes a coordinated effort that includes...

Jul 11, 2024 | Eric Scheffler

[Running our customer service and support contact centers on Microsoft Azure](#)

Providing exemplary support is critical to how we empower our customers to achieve more with Microsoft technologies and services. We in Microsoft Digital, the company's IT organization, recently migrated our global Microsoft customer service network to Microsoft Azure, creating a cloud network-based solution to connect our customers to the support services they need at Microsoft....

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.

Jun 19, 2024 | Josh Krenz

[Building an anti-ransomware program at Microsoft focused on an Optimal Ransomware Resiliency State](#)

Microsoft strives to deliver the productivity tools and services the world depends on. With this comes the responsibility of ensuring protection, continuity, and resilience from cyberattacks of all sorts—including emerging threats. Highlighted in the third edition of the Microsoft Digital Defense Report, ransomware and extortion are considered nation-level threats due to the sophistication and boldness...

Jun 21, 2024 | Inside

[Improving security by protecting elevated-privilege accounts at Microsoft](#)

[Editor's note: This content was written to highlight a particular event or moment in time. Although that moment has passed, we're republishing it here so you can see what our thinking and experience was like at the time.] An ever-evolving digital landscape is forcing organizations to adapt and expand to stay ahead of innovative and...





Unified Database: Laying the foundation for large language model vertical applications >

July 10, 2024

Unified databases offer better knowledge transfer between multimodal data types. They provide substantial corpus support for large language models...

Born in the research lab a decade ago, SWAN continues to accelerate networking in the Microsoft Cloud >

June 20, 2024 | [Victor Bahl](#)

Software-driven wide area network (SWAN) enables central management and control of network infrastructure to improve reliability and efficiency. A Microsoft researcher describes its journey from a research idea to a foundational system for Microsoft Azure.

Introducing AutoGen Studio: A low-code interface for building multi-agent workflows >

June 17, 2024

AutoGen Studio, built on Microsoft's flexible open-source AutoGen framework for orchestrating AI agents, provides an intuitive user-friendly interface that enables developers to rapidly build, test, customize, and share multi-agent AI solutions—with little or no coding.

GraphRAG: New tool for complex data discovery now on GitHub >

July 2, 2024 | [Darren Edge](#), [Ha Trinh](#), [Steven Truitt](#), and [Jonathan Larson](#)

GraphRAG, a graph-based approach to retrieval-augmented generation (RAG) that significantly improves question-answering over private or previously unseen datasets, is now available on GitHub.

Synergizing habits and goals with variational Bayes: A new framework for biological and artificial embodied agents >

June 19, 2024 | [Donggi Han](#)

The Bayesian behavior framework synergizes habits and goals through variational Bayesian methods, offering new insights on sensorimotor behavior and comprehension of actions.

Empowering NGOs with generative AI in the fight against human trafficking >

July 10, 2024 | [Darren Edge](#), [Ha Trinh](#), and [Dayenne Souza](#)

Intelligence Toolkit was built to help fight human trafficking and is applicable to a broad range of societal challenges. Learn how Microsoft researchers worked with global experts to develop generative AI tools that could help tackle urgent issues at scale.

Microsoft Quantum Blog :: Innovation News



News • June 18, 2024 • 7 min read

Introducing two powerful new capabilities in Azure Quantum Elements: Generative Chemistry and Accelerated DFT

by Cr. Nathan Balow, Product Leader, Azure Quantum Elements, Microsoft

Azure Quantum Elements is making research in chemistry and materials science faster, easier, and more productive by integrating new tools based on generative AI and high-performance computing.

Microsoft's mission is to empower every person and every organization on the planet to achieve more. [Azure Quantum Elements](#) contributes to this mission by offering scientific capabilities based on AI and cloud high-performance computing (HPC). These user-friendly tools greatly increase the productivity of scientific research and remove barriers on the path to scientific discovery by substantially reducing the effort and expertise needed to perform what were previously daunting tasks. Specifically, these capabilities use Copilot for Azure Quantum, a natural-language interface that can be used by experts and non-experts alike, making Azure Quantum Elements accessible to more people and increasing the speed at which complex scientific problems can be solved.

Unlocking solutions to our most pressing challenges will require the world's collective genius, and we're excited to put new capabilities into the hands of scientists, students, and [organizations](#) such as [Unilever](#) so that everyone can contribute to making scientific discoveries that change the world for the better.

Since its launch, Azure Quantum Elements has served an important role in helping scientists achieve breakthroughs that have paved the way for [more sustainable batteries](#) and [innovations in the pharmaceutical industry](#). Today, we're announcing two new purpose-built capabilities in Azure Quantum Elements that will further increase the productivity and accessibility of chemistry and materials science research—**Generative Chemistry** and **Accelerated DFT**.

+ 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.

Prompting the Copilot

- In the code window, select Explain code to prompt the Copilot in Azure Quantum to generate an analysis of the code sample.

You can prompt the Copilot in Azure Quantum for almost anything quantum related, for example:

- "Explain the MResetZ operation"
- "Write Q# code that entangles two qubits"
- "Explain quantum interference"



Quantum coding

Learn quantum coding with help from Copilot in Azure Quantum. Write and run quantum code right from your browser, or ask Copilot for a sample then copy, run, and explore.

[Try now >](#)



Quantum tutorials

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Quantum Chemistry

Learn about quantum chemistry with Azure Quantum's 3D interactive viewer. Ask copilot to show you a molecule and orbital visualization, or select one of the prompts to get started.

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Quantum & crypto

Grow your understanding of the intersection of quantum computing and cryptography with the Azure Quantum Resource Estimator and Copilot in Azure Quantum.

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Learning and Training



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

Security

Microsoft Security Virtual Training Day: Security, Compliance, and Identity Fundamentals

Explore the basics of security, compliance, and identity – including best practices to help protect people and data against cyberthreats for greater peace of mind.

Date & Time: Tue 30 Jul 2024, 12:00 PM - Wed 31 Jul 2024, 12:00 PM
Timezone: EDT
Country: Canada
Skill Level: Beginner

Azure

Microsoft Azure Virtual Training Day: Migrate and Modernize SAP on the Microsoft Cloud

Learn about a range of SAP migration paths to Azure and see how to improve your infrastructure and increase operational value using Microsoft security, data, and AI tools.

Date & Time: Thu 01 Aug 2024, 12:00 PM - 03:15 PM
Timezone: EDT
Country: Canada
Skill Level: Intermediate

Power Platform

Microsoft Power Platform Virtual Training Day: Automate Your Business Processes

Discover how to optimize your workflows with Microsoft AI Builder and Power Automate.

Date & Time: Thu 01 Aug 2024, 12:00 PM - 02:45 PM
Timezone: EDT
Country: United States
Skill Level: Intermediate

Fabric Analyst in a Day - Thorogood Associates - United States

07/17/2024 | 08:00 - 16:00 (EST)

Digital
English (United States)
Training



New Training Initiative – Digital Skills for the Future

help professionals gain and demonstrate their skill

Build the skills you need for the digital economy

LinkedIn and Microsoft have teamed up to provide free courses to help you keep your skills relevant

LinkedIn Learning

Microsoft



Career Essentials in Generative AI

Learn the core concepts of Artificial Intelligence and generative AI functionality. This learning path will introduce currently available generative AI tools, explore their impacts, and discuss the importance of ethical considerations when using them.

Skills you'll learn:

- Develop an understanding of generative AI models
- Learn the ethical considerations of using generative AI
- Explore the impact of generative AI tools
- Basics of Microsoft 365 Copilot

[Earn your Career Essentials in Generative AI Professional Certificate](#)



Career Essentials in Cybersecurity

Discover the foundational skills needed for a career in cybersecurity. Gain a solid understanding of commonly used cybersecurity terms. Explore the current threat landscape and learn the core concepts of cybersecurity.

Skills you'll learn:

- Fundamental cybersecurity concepts
- Fluency in cybersecurity terminology
- Navigating the cybersecurity threat landscape

[Earn your Career Essentials in Cybersecurity Professional Certificate](#)



Career Essentials in Business analyst

Explore foundational business analysis concepts and understand key processes. Practice using software tools for common business analysis tasks.

Skills you'll learn:

- Agile principles
- Requirements for gathering and analysis
- Data science basics

[Earn a Career Essentials in Business Analysis Professional Certificate](#)



Career Essentials in Sustainable Tech

Harness the power of technology to foster sustainable change. This learning path will equip you with an understanding of sustainability concepts vital to businesses, ways sustainability can drive innovation, and tech solutions that can help companies meet strategic sustainability goals.

Skills you'll learn:

- Foundational sustainability concepts
- Opportunities for sustainable innovation
- Why sustainability is key to a cloud solution
- Sustainable solutions using Microsoft Cloud

[Earn your Career Essentials in Sustainable Tech Professional Certificate](#)



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 users, 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.

Microsoft Security, Compliance, and Identity Training Journey

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

<https://aka.ms/ESISecurityTrainingJourney>

Azure AI Engineer Learning Pathway

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

Fabric Learning Companion

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

Microsoft Learning and Training :: Learning Blog



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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

MICROSOFT LEARN

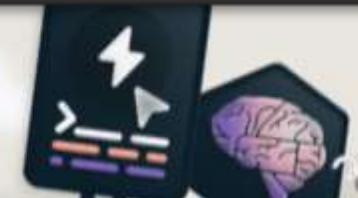
AI learning hub

Microsoft Learn is your trusted source to help you get skilled up and ready to power AI transformation with the Microsoft Cloud.



Security Operations Analyst

Protect your organization for security threats.



AI Engineer

Define and implement cutting-edge AI solutions.

MODULE

Automate development tasks by using GitHub Actions



⌚ 49 min

Beginner • DevOps Engineer • GitHub

⊕ Save



LEARNING PATH

Develop Generative AI solutions with Azure OpenAI Service

⌚ 5 hr 34 min

Azure • AI Engineer • Intermediate

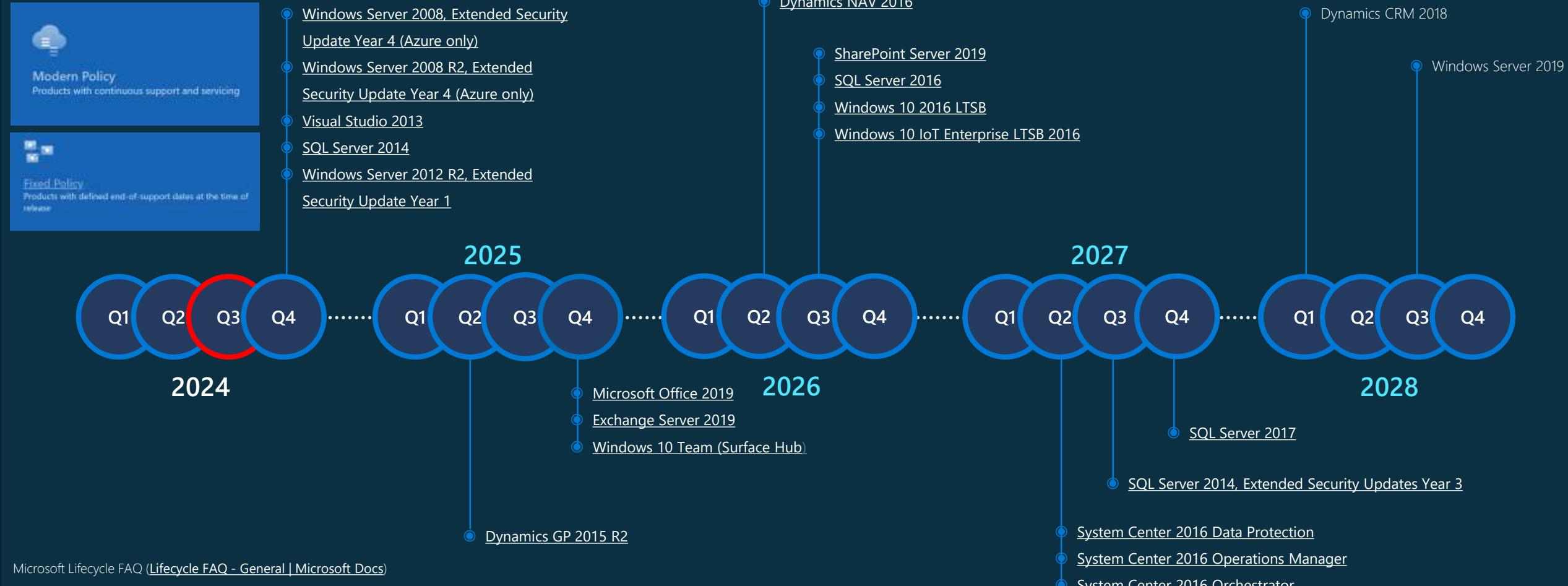
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Product Lifecycles





End of Service Roadmap to 2028



Microsoft Lifecycle FAQ ([Lifecycle FAQ - General | Microsoft Docs](#))

Microsoft Lifecycle Policy Details (<https://support.microsoft.com/en-us/lifecycle>)

** IE11 support ends for connection to Microsoft 365 (<https://docs.microsoft.com/en-us/lifecycle/announcements/m365-ie11-microsoft-edge-legacy>)

^ Microsoft 365 Apps, Office 2016, Office 2019 supported as clients for Microsoft 365 (<https://docs.microsoft.com/en-us/deployoffice/endofsupport/office-365-services-connectivity>)

~ TLS 1.0/1.1 Deprecated (<https://docs.microsoft.com/en-us/microsoft-365/compliance/tls-1-0-and-1-1-deprecation-for-office-365?view=o365-worldwide>)

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
Xamarin Community Toolkit Xamarin.Android Xamarin.Essentials Xamarin.Forms Xamarin.iOS Xamarin.Mac	May 1, 2024
Virtual WAN hubs running on Cloud Services	July 1, 2024
Azure Kinect SDK	August 16, 2024
API Management stv1 App Service Environment version 1 and 2 Azure Cache for Redis on Cloud Services (Classic) Azure Classic Administrator Roles Azure Cloud Services (classic) Classic Application Gateway Classic ExpressRoute Gateway Classic Reserved IP Addresses Classic Storage Accounts Classic Virtual Network Classic VPN Gateway HPC Pack burst to Cloud Services Integration Services Environment Machine Learning Studio (classic) Visual Studio for Mac	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



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
Microsoft Configuration Manager, Version 2211	June 5, 2024
Windows 10 Enterprise and Education, Version 21H2 Windows 10 IoT Enterprise, Version 21H2	June 11, 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 10, 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
Dynamics 365 Business Central on-premises (Modern Policy), 2023 release wave 2, version 23.x	April 2, 2025
Microsoft Configuration Manager, Version 2309	April 9, 2025
Dynamics 365 Business Central on-premises (Modern Policy), 2024 release wave 1, version 24.x	October 7, 2025
Windows 11 Enterprise and Education, Version 22H2 Windows 11 IoT Enterprise, Version 22H2	October 14, 2025
Microsoft Configuration Manager, Version 2403	October 22, 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
Dynamics CRM 2013 Microsoft Host Integration Server 2013 Visual Studio 2022 , Version 17.2 (LTSC channel) Windows Server 2008, Extended Security Update Year 4 (Azure only) Windows Server 2008 R2, Extended Security Update Year 4 (Azure only)	January 9, 2024
Microsoft Deployment Agent 2013 Microsoft Diagnostics and Recovery Toolset 8.1 Test Agent, Controller User Experience Virtualization (UE-V) 2.0 Visual Studio 2013 Visual Studio Team Foundation Server 2013	April 9, 2024
Microsoft SQL Server 2012, Extended Security Update Year 2 SQL Server 2014 Visual Studio 2022 , Version 17.4 (LTSC channel)	July 9, 2024
Microsoft SQL Server 2012 Parallel Data Warehouse (Analytics Platform System) Windows Embedded POSReady 7, Extended Security Update Year 3* Windows Server 2012, Extended Security Update Year 1 Windows Server 2012 R2, Extended Security Update Year 1	October 8, 2024
Dynamics CRM 2013 Microsoft Host Integration Server 2013 Visual Studio 2022 , Version 17.2 (LTSC channel) Windows Server 2008, Extended Security Update Year 4 (Azure only) Windows Server 2008 R2, Extended Security Update Year 4 (Azure only)	January 9, 2024
Microsoft Deployment Agent 2013 Microsoft Diagnostics and Recovery Toolset 8.1 Test Agent, Controller User Experience Virtualization (UE-V) 2.0 Visual Studio 2013 Visual Studio Team Foundation Server 2013	April 9, 2024
Microsoft SQL Server 2012, Extended Security Update Year 2 SQL Server 2014 Visual Studio 2022 , Version 17.4 (LTSC channel)	July 9, 2024

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2025



Products Release End of Support for 2025

Products Moving to End of Support (Fixed Policy)	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
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 Visual Studio 2022 , Version 17.8 (LTSC channel)	July 8, 2025

Products Moving to End of Support (Fixed Policy)	End of Servicing Date
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 2 Windows Server 2012 R2, Extended Security Update Year 2 Word 2016 Word 2019	October 14, 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	January 9, 2024
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 Server 2019	
Windows Server IoT 2019	
Windows Server IoT 2019 for Storage	
Azure DevOps Server 2019	April 9, 2024
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	

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

Microsoft Product Lifecycle: Azure Changes 2024



Azure Item	Retirement	Azure Item	Retirement	Azure Item	Retirement
Select Batch images	January 9, 2024	Built-in Qualys vulnerability assessment solution for Defender for Containers	May 1, 2024	Azure Storage for Go blob Track 1 SDK	September 13, 2024
Azure Active Directory Connect version retirement (2021)	February 29, 2024	Built-in Qualys vulnerability assessment solution for Defender for Servers		Azure Storage for Go file Track 1 SDK	
Azure Application Gateway analytics solution		consumption.azure.com API retirement		Azure Storage for Go queue Track 1 SDK	
Azure Batch rendering VM images & licensing		.NET 7 on App Service	May 13, 2024	Microsoft Azure Storage Track 1 SDK for Java	
Azure Batch Transcription and Customization Rest API v2		Azure Functions - .NET 7 community EOS	May 14, 2024	Retirement of Azure Storage Android Track 1 SDK	
Azure Data Lake Analytics		Azure Object Anchors	May 20, 2024	Retirement of Azure Storage Ruby Track 1 SDK	
Azure Data Lake Storage Gen 1		FCM legacy migration to FCM v1 in Azure Notification Hub	June 20, 2024	Azure database for MySQL Single Server	September 16, 2024
Azure Media Services v2 API		Azure Functions for Node 14	June 30, 2024	Azure Maps Data V1 & Data V2 API	
Azure Network Watcher Connection Monitor (classic)		Azure Functions for Node 16		.NET Standard user-defined functions	September 30, 2024
Azure Stack Edge Pro FPGA		Azure Media Services		Automatic configuration of LVM for CycleCloud	
AzureRM Powershell modules		Azure Video Indexer adjustments due to Azure Media Services retirement		Volume mounts	
Classic alerts in Azure Monitor for Gov cloud		Azure OpenAI Service 7.5.24 model retirements	July 5, 2024	Azure Monitor Application Insights Python	
Classic alerts in Azure Monitor for Mooncake		Azure Time Series Insights	July 7, 2024	OpenCensus SDK	
Classic Application Insights		Azure Synapse Runtime for Apache Spark 3.2	July 8, 2024	Azure Sphere CLI V1	
Classic Azure Migrate		Azure HDInsight A Series	August 30, 2024	Batch CLI extensions	
Cognitive Services Text Analytics v2.x		ADF Data Flows Compute Optimized SKU	August 31, 2024	BeeGFS filesystem cluster type	
Jenkins plug-ins for Azure		Azure Automation Agent-based user Hybrid Runbook Worker		C# custom deserializer for Azure Stream Analytics	
Legacy Azure Kubernetes Services AAD integration		Azure Automation Update Management		Grafana 9 End of Support for Azure Grafana Services	
Standard version of Custom Voice	March 6, 2024	Azure Functions Azure Cosmos DB V3 Extension		HTCondor scheduler cluster type	
Virtual Machines NC Series		Azure Monitor Log Analytics Agent		MFA Server Retirement	
Virtual Machines NCv2 Series		Azure Monitor Multi Step WebTest		Pool list usage metrics API	October 1, 2024
Virtual Machines ND Series		Azure Monitor Release Annotations using API keys		Task authentication token	
Virtual Machines NVv1 Series		Azure Site Recovery (Hard coded IP addresses)		Python 3.8 on App Service	October 1, 2024
Azure Container Apps preview API version 2023-04-01-preview	March 6, 2024	Basic and Standard A-series VM families support		Azure Cache for Redis TLS 1.0/1.1	October 31, 2024
Azure Farmbeats	March 14, 2024	Change Tracking with LA (Log Analytics) Agent		Azure-wide TLS 1.0/1.1 support announcement	
Custom metric alerts in Azure monitor for container insights		Classic Resource Providers		Flexible Server PostgreSQL 11 retirement	November 9, 2024
Internet Analyzer Decom	March 15, 2024	Cognitive Search Skills for Text Analytics v2		Single Server PostgreSQL 11	
Retirement of Azure Storage PHP SDK	March 17, 2024	RDFF networking resources (classic)		.NET 6 LTS on App Service	November 12, 2024
Azure Cosmos DB's built-in Jupyter notebooks	March 30, 2024	Retirement of Azure Cosmos DB .NET SDK (Cosmos DB)		Azure Functions - .NET 6 community EOS	
Azure AI Content safety (preview)	March 31, 2024	Retirement of Java ASync v2.x (Cosmos DB)		Azure Spatial Anchors	November 20, 2024
Azure RTOS transition to open source under Eclipse Foundation		Retirement of Java V3 SDK (Cosmos DB)		PHP 8.1 on App Service	November 25, 2024
Changes to My Groups admin controls		Synapse Analytics Data Flows Compute Optimized SKU			
IoT Edge on K8s on Azure Stack Edge		Text To Speech (Standard Voice)			
Select Batch Pool Autoscale Statistics		Virtual Machines Basic and Standard A-series AV1			
Traversal Using Relays Around NAT (TURN)		Virtual Machines HB Series			
Trouble Shooting Guides Retirement					

Microsoft Product Lifecycle: Azure Changes 2025



Azure Item	Retirement
HTTP Application Routing add-on for AKS	March 3, 2025
Azure pod identity v1 (public preview) Explainability and Fairness Dashboard	March 14, 2025
“Global ingestion endpoints” (resulting in Instrumentation Key deprecation) Every-write AOF on Redis Enterprise Git Repository - API Management 2	March 15, 2025
Azure Database for PostgreSQL - Single Server	March 28, 2025
Azure HDInsight 4.0 Azure HDInsight 5.0	March 30, 2025
Application Insights ‘instrumentation key’ based global ingestion Azure Functions Service Bus Extension v4 Azure Maps Creator Feature State APIs Azure Maps Native SDK Azure portal templates Chef Run_lists and Cookbooks in Azure CycleCloud Cluster-Init Projects Container Monitoring solution Cost Management - Connector for AWS Direct Management API Microsoft Azure Storage Track 1 SDK for C++ QnAMaker Service V1 Retirement of Platform Enabled DR for App Service Web Apps SQL's connector v1 operations Standard_NC24rs_v3 VM size Visual Studio App Center	March 31, 2025
Ubuntu 20.04 LTS support	April 23, 2025
Node 18 LTS on App Service	April 30, 2025

Azure Item	Retirement
Cluster Configuration Flux v1	May 24, 2025
SAP HLI SKU Retirement	June 30, 2025
Azure Database for MariaDB	September 19, 2025
App Insights API Key Retirement Application Insights Java 2.X SDK Retirement Azure Database for MySQL v5.7 end of support Azure Functions proxy support retirement Azure HPC Cache Azure ML CLI v1 retirement Azure vFXT Basic IP Basic Load Balancer Batch Low Priority VMs Default Outbound Access Default outbound access for Simplified node communication pool without public IP addresses Legacy MFA and SSPR policies - authentication methods Microsoft Defender for Cloud - Microsoft Actions and Compliance Offerings components Microsoft.SQL 2014-04-01 stable APIs retirement ServiceMap Standard_NC6s_v3, Standard_NC12s_v3, and Standard_NC24s_v3 VM sizes Unmanaged Disks VPN Gateway Standard and High-Performance SKUs	September 30, 2025
Azure Monitor legacy Log Analytics API for log alerts Language Understandings (LUIS) v1	October 1, 2025



Acquisitions and Announcements

Microsoft Acquisitions - 2024



Company	Date	Description
		No Acquisitions Yet for 2024

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).</p> <p>Fungible's technologies help enable high-performance, scalable, disaggregated, scaled-out datacenter infrastructure with reliability and security.</p> <p>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
<u>Lumenisity</u>	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 .
<u>Miburo</u>	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.
<u>Minit</u>	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 .
<u>Oribi</u>	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 .
<u>Activision Blizzard</u>	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."

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List of cool collections of interesting portals and links

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- [CISO Bookmarks](#)
- [John Savill's Technical Training](#)
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- [Microsoft Service Trust Portal](#)
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MSRC & MSTIC (Live feed)

Updating our Vulnerability Severity Classification for AI Systems 3 months ago – The Microsoft Security Response Center (MSRC) is always looking for ways to provide clarity and transparency around how we assess the impact of vulnerabilities...

Congratulations to the MSRC 2023 Most Valuable Security Researchers! 3 months ago – The Microsoft Researcher Recognition Program offers public thanks and recognition to security researchers who help protect our customers through discovering...

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Microsoft mitigates Power Platform Custom Code Inf...

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Microsoft Product Ninja Trainings

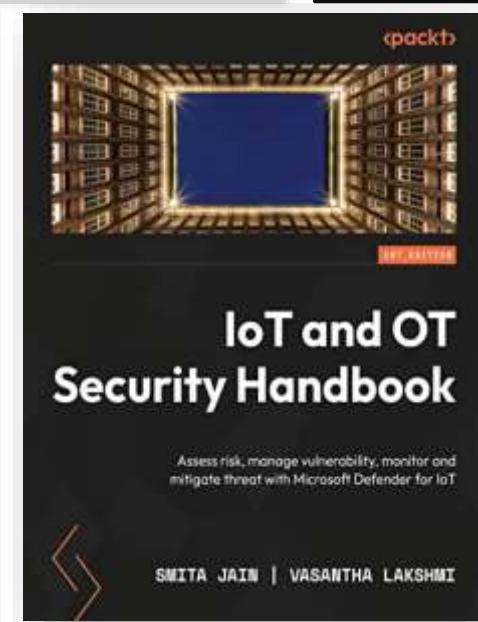
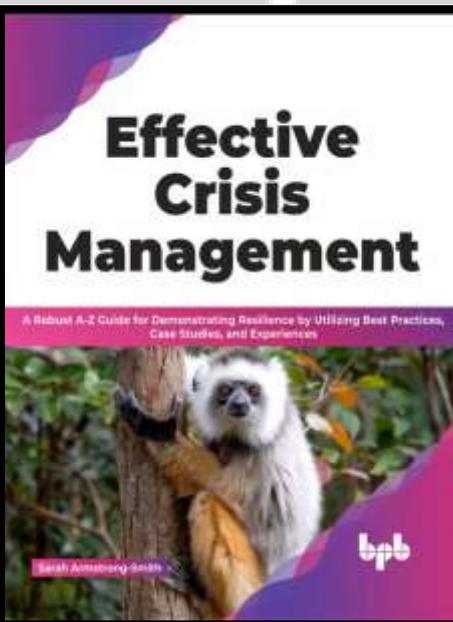
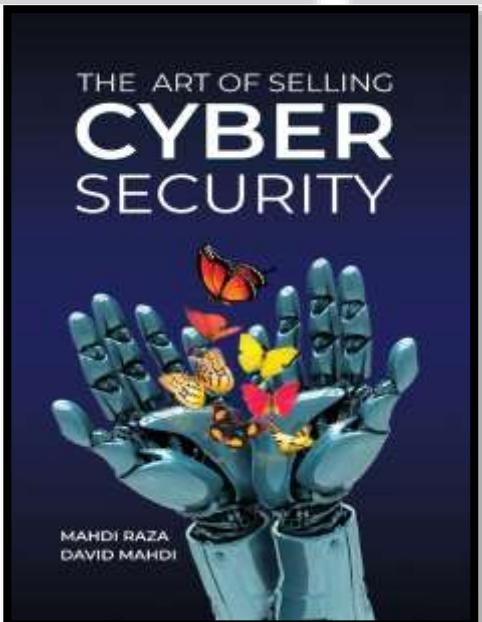
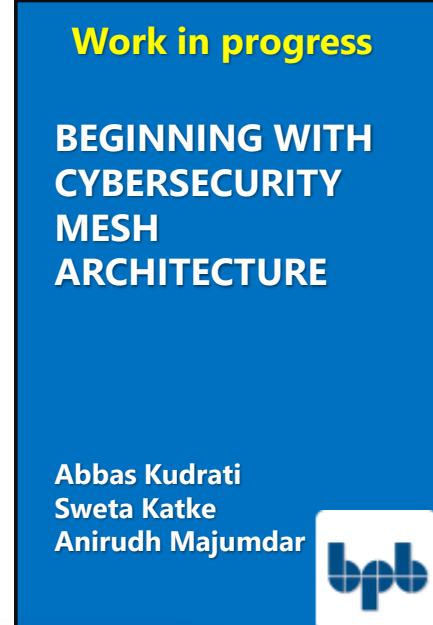
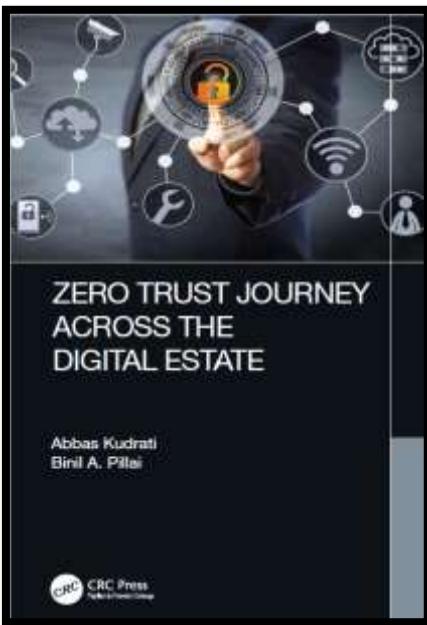
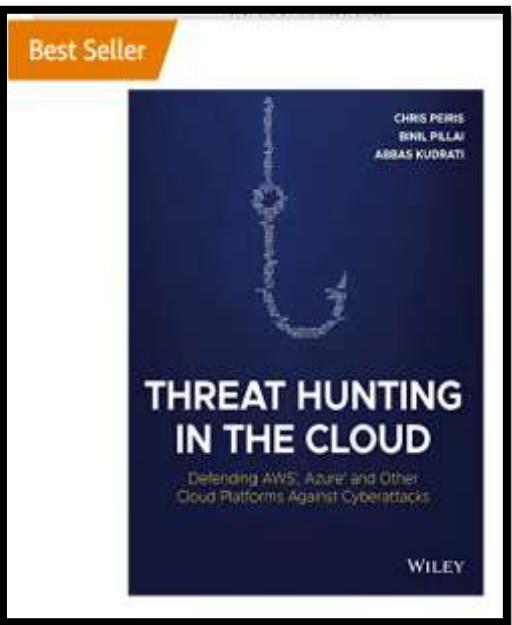
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