



Microsoft

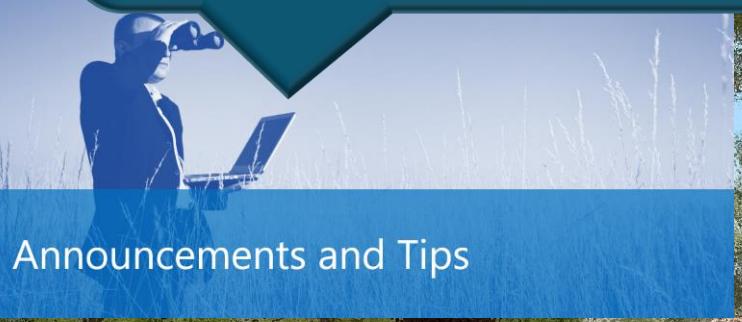
Monthly Tech Briefing

AUGUST 2024



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

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10 AI terms everyone should know

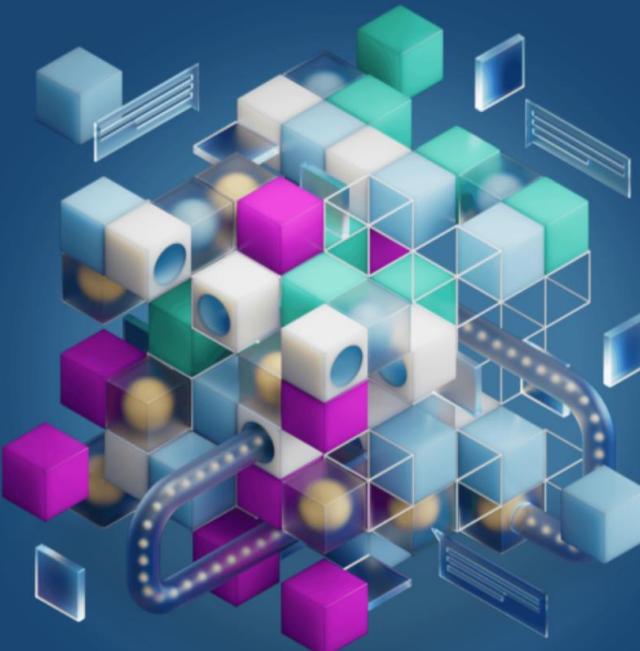
By Susanna Ray

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 outlines of a face on the moon and began saying there was an actual man in the moon. Developers try to resolve these issues through "grounding," which is when they provide an AI system with additional information from a trusted source to improve accuracy about a specific topic. Sometimes a system's predictions are wrong, too, if a model doesn't have current information after it's trained.

10 (more) AI terms everyone should know

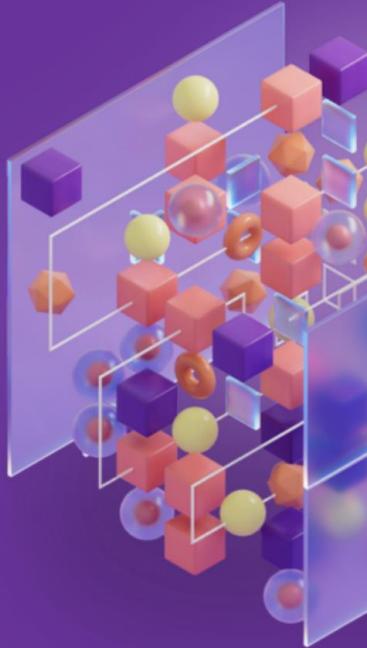
by Susanna Ray

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



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WELCOME TO BLACK HAT USA 2024

Black Hat USA returns to the Mandalay Bay Convention Center in Las Vegas with a 6-day program. The event will open with four days of specialized [cybersecurity Trainings](#) (August 3-6), with courses for all skill levels. The two-day main conference (August 7-8) will feature more than 100 selected [Briefings](#), dozens of open-source tool demos in Arsenal, a robust Business Hall, networking and social events, and much more. [View Pass Options »](#)

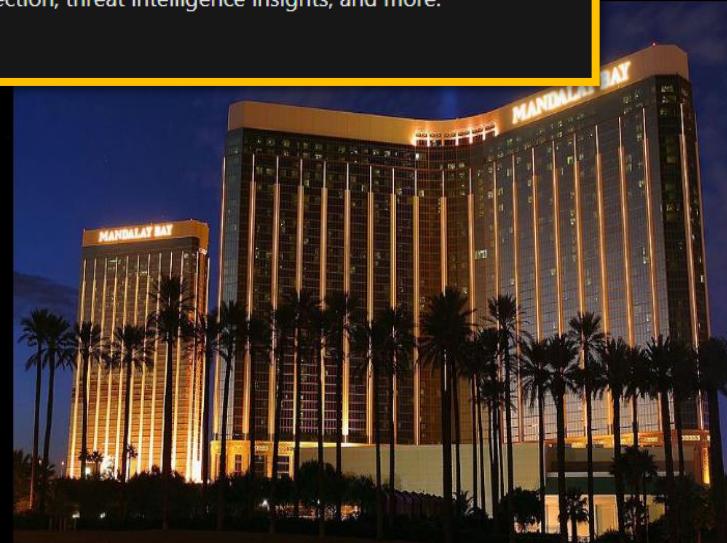
REGISTER NOW

AUGUST 3-8, 2024
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Events [AI and machine learning](#) · Jul 17 · 7 min read

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Join Microsoft Security leaders and other security professionals from around the world at Black Hat USA 2024 to learn the latest information on security in the age of AI, cybersecurity protection, threat intelligence insights, and more.





10th anniversary

UNIVERSE24

Global developer event

• San Francisco, CA

• October 29-30

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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

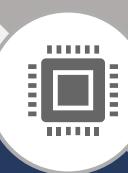
In Chicago and online: November 18–22, 2024

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.

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Updates of Security and Compliance





[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

[Incident response](#) · Jul 27 · 16 min read

Windows Security best practices for integrating and managing security tools >

We examine the recent CrowdStrike outage and provide a technical overview of the root cause.

[Events](#) [Zero Trust](#) [Microsoft Entra](#) · Jul 24 · 3 min read

Zero Trust in the Age of AI: Join our online event to learn how to strengthen your security posture >

Register for the "Zero Trust in the Age of AI" webcast to learn more about how our new capabilities in identity and network access and security operations make it easier to implement Zero Trust across your entire environment.

[News](#) [Zero Trust](#) [Microsoft Entra](#) · Jul 11 · 9 min read

Simplified Zero Trust security with the Microsoft Entra Suite and unified security operations platform, now generally available >

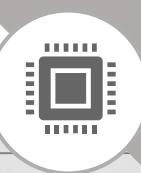
Microsoft is announcing the Microsoft Entra Suite and the unified security operations platform, two innovations that simplify the implementation of your Zero Trust security strategy.

[Best practices](#) [AI and machine learning](#) [Microsoft Purview](#) · Jul 30 · 3 min read

New Microsoft whitepaper shares how to prepare your data for secure AI adoption >

In our newly released whitepaper, we share strategies to prepare for the top data challenges and new data security needs in the age of AI.

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

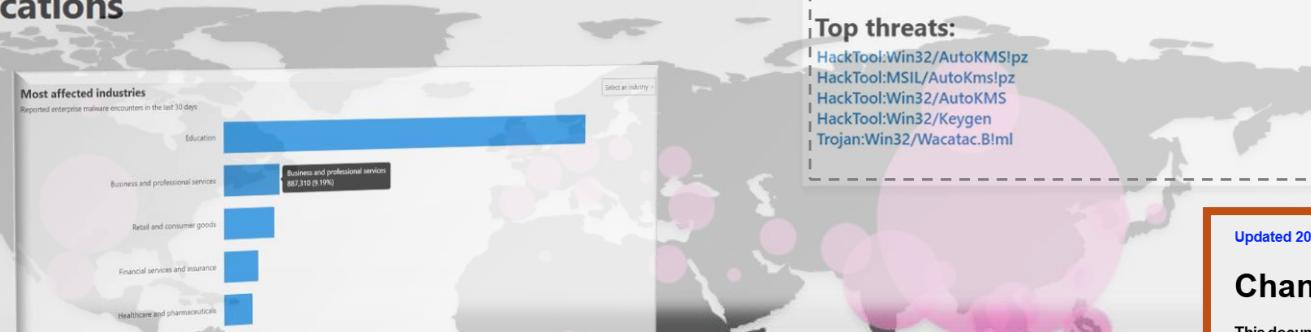
Reported enterprise malware encounters in the last 30 days

Telecommunications

Show all industries >

Devices with encounters:

143,827 (2.25%)



[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Vulnerabilities and exploits](#) · Aug 8 · 15 min read

Chained for attack: OpenVPN vulnerabilities discovered leading to RCE and LPE >

Microsoft researchers found multiple vulnerabilities in OpenVPN that could lead to an attack chain allowing remote code execution and local privilege escalation. This attack chain could enable attackers to gain full control over targeted endpoints, potentially resulting in data breaches, system compromise, and unauthorized access to sensitive information.

Microsoft Security Response Center

Worldwide

72,182,730 devices with encounters

Top threats:

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

Updated 2024-08-06 1600 UTC



Channel File 291 RCA Exec Summary

This document provides an executive summary of the findings of CrowdStrike's Root Cause Analysis (RCA) report. The full report elaborates on the information previously shared in our preliminary Post Incident Review (PIR), providing further depth on the findings, mitigations, technical details and root cause analysis of the incident.

[Download the Root Cause Analysis PDF](#)

Introduction

CrowdStrike was founded with a mission to protect customers against today's adversaries and stop breaches. On July 19, 2024, as part of regular operations, CrowdStrike released a content configuration update (via channel files) for the Windows sensor that resulted in a system crash. We apologize unreservedly.

We acknowledge the incredible round-the-clock efforts of our customers and partners who, working alongside our teams, mobilized immediately to restore systems and bring many back online within hours. As of July 29, 2024, at 8:00 p.m. EDT, ~99% of Windows sensors were online, compared to before the content update. We typically see a variance of ~1% week-over-week in sensor connections. To any customers still affected, please know we will not rest until all systems are restored.

[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Ransomware](#) · Jul 29 · 9 min read

Ransomware operators exploit ESXi hypervisor vulnerability for mass encryption >

Microsoft Security researchers have observed a vulnerability used by various ransomware operators to get full administrative access to domain-joined ESXi hypervisors and encrypt the virtual machines running on them. The vulnerability involves creating a group called "ESX Admins" in Active Directory and adding an attacker-controlled user account to this group.

[Research](#) [Threat intelligence](#) [Microsoft Defender Threat Intelligence](#) [Threat actors](#) · Jul 25 · 11 min read

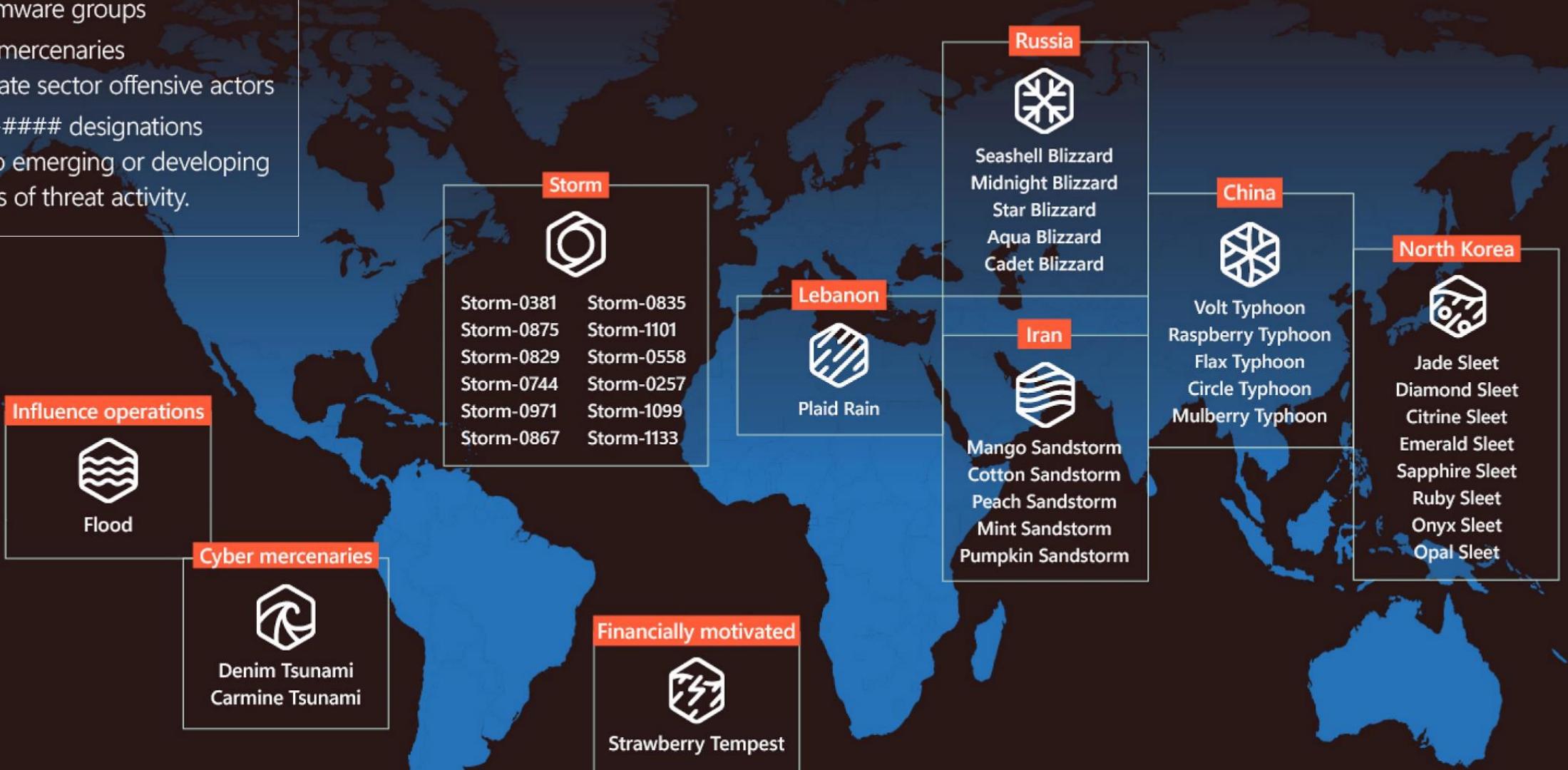
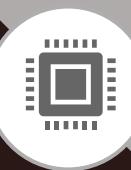
Onyx Sleet uses array of malware to gather intelligence for North Korea >

On July 25, 2024, the United States Department of Justice (DOJ) indicted an individual linked to the North Korean threat actor that Microsoft tracks as Onyx Sleet. Microsoft Threat Intelligence collaborated with the Federal Bureau of Investigation (FBI) in tracking activity associated with Onyx Sleet.

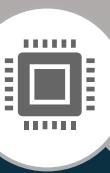
Tracked activity

- 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.

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.

Cadet Blizzard

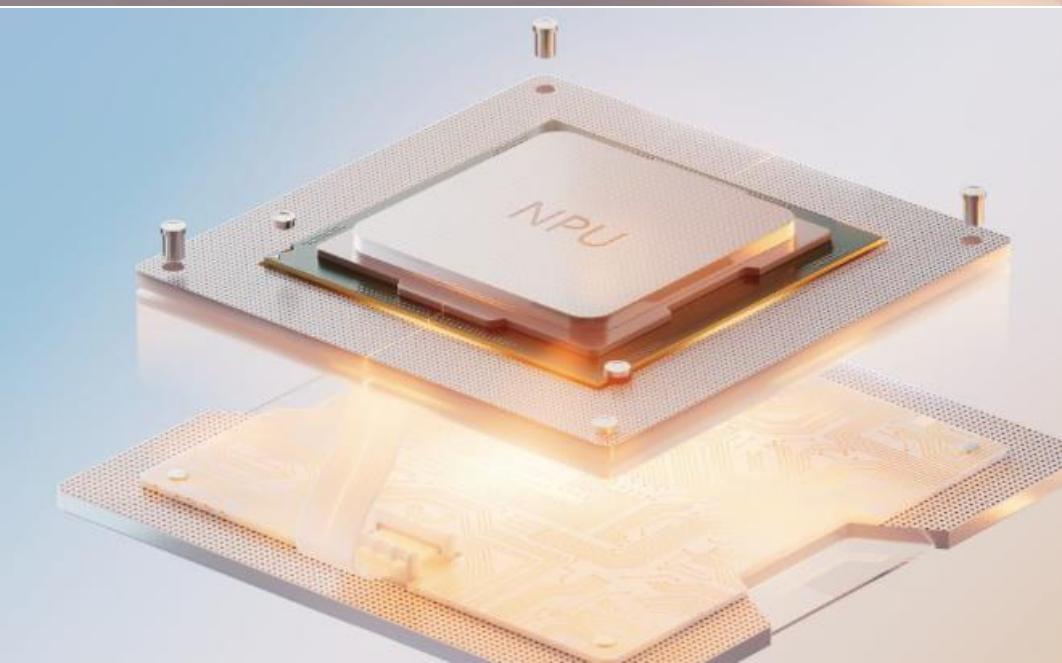
Microsoft tracks Cadet Blizzard (formerly DEV-0586) as a Russian GRU-sponsored threat group that Microsoft began tracking following disruptive and destructive events occurring at multiple government agencies in Ukraine in mid-January 2022.



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.	Generally Available	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	Generally Available	LINK	LINK
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	LINK
Data Professionals	Copilot in Microsoft Fabric	I want an AI assistant to help my data professionals analyze and visualize data using natural language.	Generally Available	LINK	LINK
	Copilot in Power BI	I want to use AI to illuminate hidden patterns, opportunities, and anomalies in my data.	Generally Available	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	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.	Generally Available	LINK	LINK

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.



Aug 5 • 4 min read

Build AI-enabled applications with Azure AI and NVIDIA ↗

Microsoft and NVIDIA have launched a collaborative resource for developers and organizations to experience the better together benefits.

Microsoft | Microsoft AI

Jul 31 • 7 min read

Microsoft Unveils Custom Silicon Chips to Boost AI and Cloud Performance ↗

Category: AI Microsoft Unveils Custom Silicon Chips to Boost AI and Cloud Performance By Robert Ciurus July 31, 2024 Tucked away on Microsoft's...

Jul 25 • 8 min read

'The only way': How Copilot is helping propel an evolution at Lumen Technologies ↗

'The only way': How Copilot is helping propel an evolution at Lumen Technologies Written by Deborah Bach Published July 25, 2024 Category Digit...

Jul 25 • 3 min read

Get AI ready: Build skills with Microsoft Learn ↗

A skills-first approach to AI leads to skill building for every role, with Microsoft Learn as a trusted partner.

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 photograph of a woman with voluminous, curly, reddish-brown hair. She is looking slightly upwards and to her left with a thoughtful expression. The background is a soft-focus indoor setting.

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 photograph of a person with short, dark 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
- ❖ [Go Cloud-First with Windows Device Management](#)
- ❖ [Windows 365 GPU-enabled CloudPCs](#) :: Generally Available
- ❖ [Introducing the content pane in SharePoint pages and news](#)
- ❖ [Windows IT Pro Blog](#)
- ❖ [Microsoft Entra \(Azure AD+\)](#) [Blog](#)
- ❖ [Microsoft OneDrive Blog](#)
- ❖ [Microsoft SharePoint Blog](#)
- ❖ [M365 Technical Documentation](#)

AI-driven insights reduce TCO for Windows 365 Cloud PCs

[Ben Murphy](#) on Aug 01 2024 09:01 AM

AI-powered Cloud PC recommendations are now available for Windows 365 admins.

Public preview: Microsoft Entra ID FIDO2 provisioning APIs

[Alex Weinert](#) on Aug 07 2024 09:00 AM

Simplify secure employee onboarding with on behalf of FIDO 2 registration.

SharePoint roadmap pitstop: July 2024

[Mark Kashman](#) on Jul 31 2024 09:59 AM

July 2024 brought some great new offerings—New SharePoint content pane, co-authoring in SharePoint, OneDrive: Additional...

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](#)

- Microsoft Teams: Reactions in Town halls (Premium)
Rollout Start: August 2024
- Microsoft Teams: Teams Town Hall Graph APIs
Rollout Start: August 2024
- Microsoft Teams: Teams Webinar Creation and Registration APIs
Rollout Start: August 2024
- Microsoft Teams: Avatar interaction improvements in Immersive space view
Rollout Start: August 2024
- > ■ ■ ■ SharePoint: Copilot in SharePoint
Preview Available: July 2024
Rollout Start: August 2024
- > ■ ■ ■ Microsoft Purview compliance portal: Data Loss Prevention - Enhancements to the device onboarding page
Preview Available: July 2024
Rollout Start: August 2024
- > ■ ■ ■ Microsoft Teams: Show/hide discover feed
Rollout Start: August 2024
- > ■ ■ ■ Microsoft Teams: Administrative Units for Teams Administration
Rollout Start: August 2024
- > ■ ■ ■ Outlook: Meeting recap and meeting artifacts available in Microsoft Outlook
Rollout Start: August 2024
- Microsoft Teams: Rename general channel
Rollout Start: August 2024
- Microsoft Teams: Support for Exchange On-Premises Servers
Rollout Start: July 2024
- Microsoft Teams: Hiding of inactive channels
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: 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: Custom emojis and reactions
Rollout Start: July 2024
- > ■ ■ ■ Microsoft Purview compliance portal: Microsoft Purview portal now supports user search functionality
Rollout Start: July 2024



Microsoft Teams Blog:



What's New in Microsoft Teams | July 2024

What's New in Microsoft Teams | July 2024

Pete_Daderko on Jul 31 2024 08:00 AM

Welcome to July's update on Microsoft Teams, where we share some of the new features and improvements that are making co...



Prompt Like a Pro: 8 Tips and tricks for working with Copilot in Teams

Prompt Like a Pro: 8 Tips and tricks for working with...

Luca_Valadares on Jul 18 2024 08:30 AM

Writing great prompts is the key to having better interactions with Microsoft Copilot in Teams. Just like talking to a c...

Pre-pin Microsoft Teams meeting apps using Teams Admin Center

August 9, 2024



Vikramjit Singh Chug

We are thrilled to announce that tenant admins can now pin apps to Microsoft Teams meetings organized in their organization.

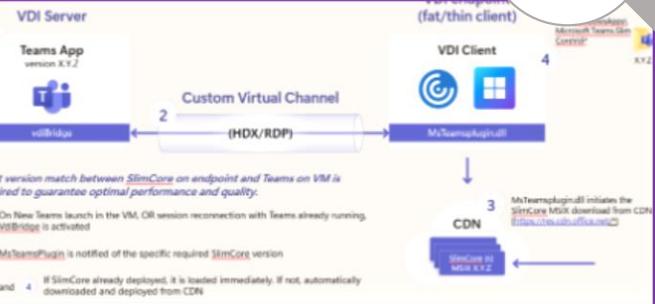
Retirement of Office 365 connectors within Microsoft Teams

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.



The future of Microsoft Teams in VDI

MSFT_Ferk 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...

Bring your custom engine copilot from Azure OpenAI Studio to Microsoft Teams: now in public preview

July 25, 2024



Linda Li, Ayca Bas, Joey Glocke

Azure OpenAI now offers a Deploy to a Teams app option in public preview, providing a new way to connect enterprise data with custom engine copilots in Microsoft Teams.



Get the most out of any Teams Rooms meeting with speaker...

Christian.Schacht on Jul 09 2024 08:00 AM

AI-powered speaker recognition technology has now expanded to all Teams Rooms on Windows devices, regardless of the micr...

Teams Toolkit for Visual Studio Code update – July 2024

July 23, 2024



Junjie Li

Learn about the latest Teams Toolkit for Visual Studio Code updates including a faster and more reliable way to debug your Teams applications.



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

Viva Glint Blog

Updates for the July 27, 2024 release

Product updates, new guidance, training, and upcoming events

Viva Insights Blog

The Microsoft Copilot Dashboard is now included with Co...

As previously announced, the Microsoft Copilot Dashboard is now a...

Viva Connections Blog

Mid-Year Viva Connections Recap and Highlights

Viva Connections serves as a gateway to a modern employee experie...

Viva Engage Blog

What's new in July - Copilot Community is available to ...

Network admins and corporate communicators can enable a Viva Enga...

Viva Amplify Blog

Viva Amplify Roadmap Blog

As we continue to innovate and enhance Microsoft Viva, we're exci...

Microsoft Power Platform :: Power Platform Blog



August 06, 2024 · 4 min read

Fast track development with AI and low-code >

AI is driving unprecedented opportunities for businesses. With advancements in AI and low-code development platforms, organizations are finding new ways to accelerate their growth and efficiency.

Jul 25 · 5 min read

Litera and Accenture transform business processes with Microsoft Copilot connectors >

Using Copilot Connectors in Microsoft Copilot Studio, organizations can create, extend, enrich, and customize Copilot with knowledge and actions that fit the unique way their customers work.

Jul 16 · 8 min read

2024 release wave 2 plans for Microsoft Dynamics 365 and Microsoft Power Platform now available >

On July 16, 2024, we published the 2024 release wave 2 plans for Microsoft Dynamics 365 and Microsoft Power Platform.

Product updates [Power Automate for desktop](#) · July 24, 2024 · 1 min read

July 2024 update of Power Automate for desktop >

Power Automate for desktop comes with new great additions in 2024 July's release, including a new Excel automation action, environment routing capabilities, as well as a more flexible use of labels for flow control!

Jul 15 · 5 min read

5 ways IT departments can get started with low-code and AI >

With vast, built-in app-building knowledge and conversational language prompts that guide beginners and turbo-boost pros, AI can speed the time to build solutions for the unique needs of your IT department.

New Features · Published August 2, 2024 · 6 min read

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

A summary of product, community, and learning updates from throughout the month so you can access it in one easy place. This month we're excited to share Copilot updates, GA of some key features for our makers and a huge set of Learning and Documentation updates.

[Building Power Apps](#) [canvas components](#) · Published July 30, 2024 · 2 min read

Use Copilot to filter to quickly filter, sort, and search canvas app galleries with SharePoint lists >

Use natural language queries with Copilot for filter to fine tune the records you see in your canvas galleries at runtime.

Announcing general availability of Tabular Model Definition Language (TMDL)

[Analysis Services](#) [Announcements](#) [Developers](#) [Power BI](#)

August 2, 2024 by [Rui Romano](#)

We are happy to announce that the Tabular Model Definition Language (TMDL) has now reached General Availability (GA):

Copilot Studio · Jul 1 · 5 min read

Improving customer and employee experiences with Microsoft Copilot Studio >

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

Visit our product blogs

[Power BI](#)

[Power Automate](#)

[Microsoft Copilot Studio](#)

[Power Apps](#)

[Power Pages](#)

Power Platform and Dynamics

Roadmaps and Release plans:



IT Professionals · Aug 02 · 3 min read

Enhancing and Streamlining Financial Reporting with Dynamics 365 Finance >

Discover the latest update to Dynamics 365 Finance featuring the powerful financial reporting add-in. Streamline financial reporting processes, enhance data accuracy, and gain comprehensive business insights. Enjoy flexible report design, real-time data integration, secure access, and collaboration tools. With 22 pre-built templates, setup is quick and consistent across environments. Available now for all supported regions.



Request manager approval for a selected file

By Microsoft

Instant
213775



Save Office 365 email attachments to specified OneDrive for Business folder

By Microsoft Power Automate Community

Automated
245326

Business Decision Makers Events

• Jul 22 · 5 min read

5 steps for becoming AI-ready in field service >

The era of AI came upon us quickly, and many business leaders are scrambling to determine AI strategies that provide the best way forward for their employees and customers alike. The 2024 Microsoft Work Trend Index shows that 79% of leaders agree that their company needs to adopt AI to stay competitive; however, 60% of leaders worry that their organization lacks a plan and a vision for implementing AI.



Send an email to responder when response submitted in Microsoft Forms

By Microsoft Power Automate Community

Automated
408171

IT Professionals News and product updates

Dynamics 365 Supply Chain Management

July 29, 2024 · 4 min read

Introducing Traceability add-in for Dynamics 365 Supply Chain Management >

Boost your business efficiency with the Traceability add-in for Dynamics 365 Supply Chain Management. Built on the Microsoft platform, this intuitive tool connects you to any source of traceability data, streamlining product lifecycle tracking, improving product quality, and reducing recall costs. Easily pass regulatory audits and use insights to drive actions.

IT Professionals News and product updates

Dynamics 365 Customer Service

August 9, 2024 · 1 min read

Use the modern rich text editor in Dynamics 365 Customer Service >

The modern rich text editor is now our advanced editor for an end-to-end enhanced authoring experience. As part of this advancement, we are phasing out the current rich text editor and integrating its capabilities into the modern rich text editor.

IT Professionals News and product updates

Dynamics 365 Field Service

July 8, 2024 · 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.

IT Professionals Tips and guides

Dynamics 365 Commerce

• Aug 5 · 4 min read

Announcing public preview of Dynamics 365 Store Commerce Self-checkout >

The self-checkout solution in Dynamics 365 Commerce utilizes the same Store Commerce app in self-checkout mode, allowing retailers to quickly enable self-checkout by leveraging their existing investments. It supports payment integrations, localization, hardware integrations, and extensions built for fixed tills. Key features include a simplified login for cashiers and shoppers, an intuitive interface displaying only self-checkout actions, and an out-of-box layout for scanning items, supporting loyalty, and accepting credit or debit payments.

Developer and GitHub

GitHub Blog and Changelog

- GitHub Copilot Enterprise on GPT-4o
- [Copilot Metrics API Organization Team Metrics](#)
- Metrics for push protection bypass requests are included in the [secret scanning metrics page](#)
- Enterprise Team Metrics Now Available on the Copilot Metrics API
- What's New in Mobile, July Update
- Revised release plan for Copilot subscription-based network routing
- App lock via Face ID or biometrics
- CSV exports for security alerts on the organization-level security overview dashboard
- Secret scanning alerts for non-provider patterns and passwords are retrievable with the REST API
- Improving GitHub Copilot Completions in VS Code for C++ Developers
- Copilot network requests are now routed based on subscription



Microsoft Developer Blogs:

- GitHub Copilot Extensions for C++ developers and beyond now available in VS Code
- [Introducing the revamped Attach to Process experience](#)
- [Three New Premium Visual Studio Subscriber Benefits Announced](#)
- [Creating Bindings for .NET MAUI with Native Library Interop](#)
- How use a Blazor QuickGrid with GraphQL
- Genetec uses Visual Studio, CMake, vcpkg, and Docker for remote Linux C++ development
- Improving GitHub Copilot Completions in VS Code for C++ Developers
- Announcing Public Preview of Managed DevOps Pools (MDP) for Azure DevOps
- [Visual Studio Code July 2024](#)

Beginner's guide to GitHub: Adding code to your repository

Take the next step in our GitHub for Beginners series and add code to your repository. Learn how to create branches and upload changes into a pull request.

Kedasha Kerr · July 29, 2024

How to use AI coding tools to learn a new programming language

Explore how AI coding tools like GitHub Copilot can accelerate your journey to learn new programming languages.

Sara Verdi · August 7, 2024

Developer skills

How to use AI coding tools to learn a new programming language

Explore how AI coding tools like GitHub Copilot can accelerate your journey to learn new programming languages.

 Sara Verdi · August 7, 2024



What's new with GitHub Copilot: July 2024

To enhance your coding experience, AI tools should excel at saving you time with repetitive, administrative tasks, while providing accurate solutions to assist developers. Today, we're spotlighting three updates designed to increase efficiency and boost developer creativity.

Elle Shwer & Stella Yang · July 31, 2024

How GitHub harnesses AI to transform customer feedback into action

Learn how we're experimenting with open source AI models to systematically incorporate customer feedback to supercharge our product roadmaps.

 Mariana Borges · July 30, 2024

Configure GitHub Artifact Attestations for secure cloud-native delivery

Introducing the generally available capability of GitHub Artifact Attestations to secure your cloud-native supply chain packages and images.

 April Yoho · July 30, 2024

How GitHub supports neurodiverse employees (and how your company can, too)

Teams with neurodivergent employees can be up to 30 percent more productive. Discover tips on how best to support them in your workplace.

 Lou Nelson & Owen Niblock · July 29, 2024

How researchers are using GitHub Innovation Graph data to estimate the impact of ChatGPT

An interview with economic researchers who are applying causal inference techniques to analyze the effect of generative AI tools on software development activity.

Kevin Xu · July 17, 2024

Office Developer Blogs and Microsoft 365 Dev Center



Microsoft

Now available
Pre-pin Microsoft Teams meeting apps using
Teams Admin Center



Pre-pin Microsoft Teams meeting apps using Teams Admin Center

August 9, 2024



Vikramjit Singh Chug

We are thrilled to announce that tenant admins can now pin apps to Microsoft Teams meetings organized in their organization.

Microsoft

Microsoft 365
Certification control
spotlight: Security
awareness training



Microsoft 365 Certification control spotlight: Security awareness training

August 8, 2024



Krishna Mawani

Discover how Microsoft 365 Certification validates compliance for enterprise-ready apps with security awareness training.

Microsoft

Deprecation of the
isPasscodeRequired
property on the Microsoft
Graph online meeting API



Announcing the deprecation of the isPasscodeRequired property on the Microsoft Graph online meeting API

August 2, 2024



AW Annie Wang

As part of Microsoft's secure future initiative, we're announcing the deprecation of the Microsoft Graph API to create an online meeting without a passcode. This API will be removed on September 30, 2027.

Microsoft

Public preview
Bring your custom engine
copilot from Azure OpenAI
Studio to Microsoft Teams



Bring your custom engine copilot from Azure OpenAI Studio to Microsoft Teams: now in public preview

July 25, 2024



Linda Li, Ayca Bas, Joey Glocke

Azure OpenAI now offers a Deploy to a Teams app option in public preview, providing a new way to connect enterprise data with custom engine copilots in Microsoft Teams.

Microsoft

Azure Fluid Relay:
Leveraging Azure Blob
Storage to scale Git



Azure Fluid Relay: Leveraging Azure Blob Storage to scale Git

July 15, 2024



ZN Zach Newton

Learn how to leverage Git as a storage mechanism behind the globally available Azure Fluid Relay (AFR) service.

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

- [Integrate an Azure Function with your Excel custom function](#)
- [Join the Microsoft 365 Developer Program](#)
- [Resource specific consent with Graph API](#)
- [Dev Proxy v0.19 with simulating LLM APIs and new Azure API Center integrations](#)
- [Build your custom copilot for Microsoft Teams using Azure OpenAI Studio and your data](#)
- [Microsoft Entra External ID: Secure, scalable external identity management for your apps and resources](#)
- [Use a shared library to migrate your Visual Studio Tools for Office add-in to an Office web add-in](#)
- [Get OneDrive data using Microsoft Graph and MSAL.NET in an Office Add-in](#)

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



[Healthcare](#) • Aug 8 • 5 min read

DAX Copilot: New customization options and AI capabilities for even greater productivity >

DAX Copilot, part of the Microsoft Cloud for Healthcare ecosystem, offers advanced AI-powered capabilities—enhancing clinician and patient experiences by improving productivity and efficiency.

[Retail](#) • Jul 9 • 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 based on access to real-time data and intelligent insights.

[Sustainability](#) • Jul 25 • 5 min read

Sustainable by design: Transforming datacenter water efficiency >

In our datacenter operations, one of the essential engineering questions we ask each day is: how can we continue to conserve water while meeting growing customer demand for cloud and AI innovation?

[Sustainability](#) • Aug 8 • 4 min read

AI in the fields: Copilot powers smarter farming >

Microsoft is endeavoring to empower the 600 million smallholder farmers around the world by providing access to crucial technologies. With tools like Azure Data Manager for Agriculture and generative AI, Microsoft is helping farmers adopt smarter, more sustainable farming practices.

[Government](#) • Jul 15 • 6 min read

How Microsoft and AI work to reduce government benefit fraud and error >

Governments are increasingly challenged to protect benefits programs from fraud, abuse, and waste. Here's how generative AI and Microsoft are helping agencies respond in ways that can mitigate loss and help improve trust in government.

[Financial services](#) • Jul 17 • 6 min read

Unlock generative AI value in private equity: AI use cases and prompts >

Helping private equity firms to navigate effective strategies to adopt generative AI and modern cloud solutions is our primary focus and a tenet of our work with Microsoft Cloud for Financial Services.



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.

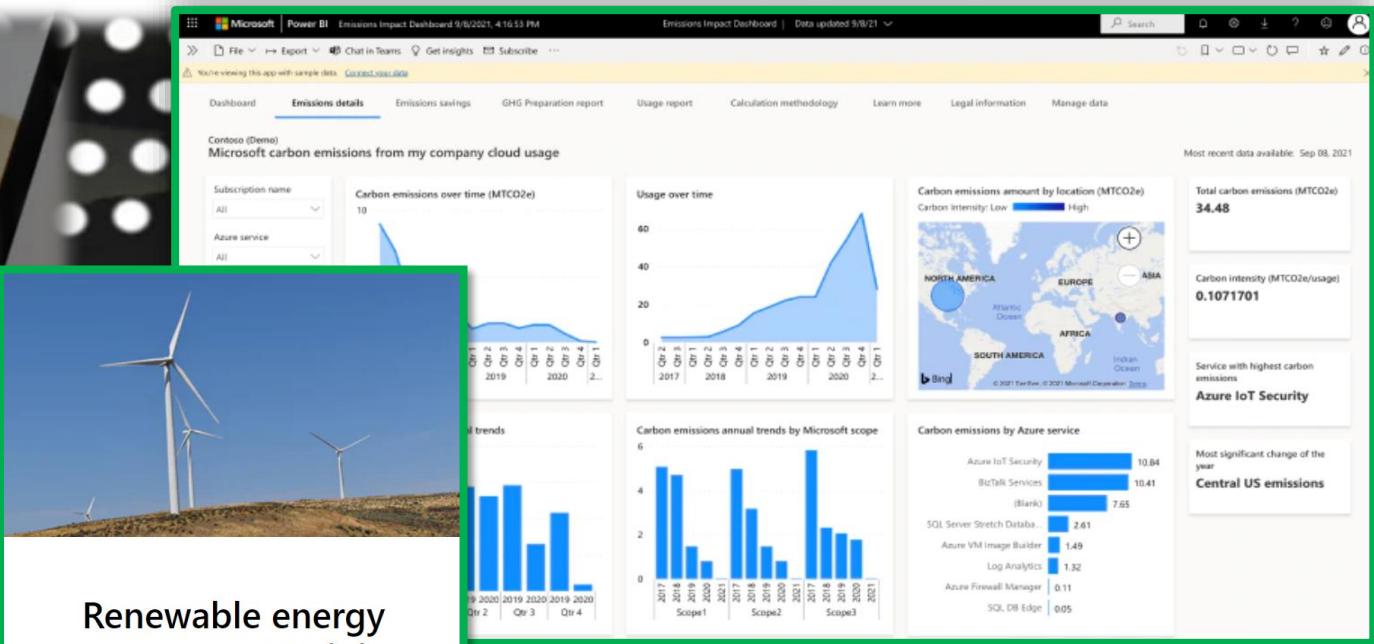
[Get started >](#)

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 >](#)



August 07, 2024 · 5 min read

Streamline ESG disclosures with new and expanded reporting solutions >

With the new project ESG reporting (preview) tool in Microsoft Sustainability Manager, organizations can streamline the ESG reporting process by collaborating on various ESG standards and frameworks at the same time.

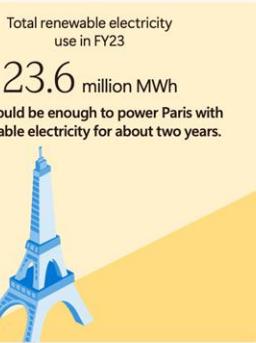
How can we advance sustainability?

2024 Environmental Sustainability Report

Reporting on our 2023 fiscal year

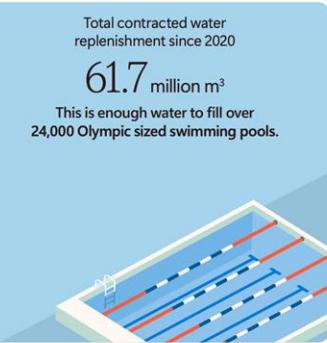
2023 highlights

Carbon



- ✓ 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



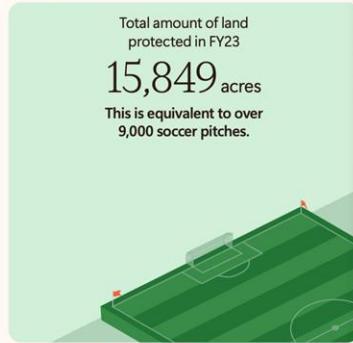
- ✓ We met our water access target by providing more than 1.5 million people with access to clean water and sanitation solutions.
- ✓ Our new datacenters are designed and optimized to support AI workloads and will consume zero water for cooling.

Waste



- ✓ 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



- ✓ 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



[Announcements](#) · Jul 25 · 7 min read

Announcing Phi-3 fine-tuning, new generative AI models, and other Azure AI updates to empower organizations to customize and scale AI applications >

By [Asha Sharma](#), Corporate Vice President, AI Platform

[AI + machine learning](#) · Jul 23 · 5 min read

Harnessing the full power of AI in the cloud: The economic impact of migrating to Azure for AI readiness >

By [Omar Khan](#), General Manager, Azure Product Marketing

[Announcements](#) · Jul 18 · 4 min read

OpenAI's fastest model, GPT-4o mini is now available on Azure AI >

By [Asha Sharma](#), Corporate Vice President, AI Platform

GPT-4o mini, announced by OpenAI today, is available simultaneously on Azure AI, supporting text processing capabilities with excellent speed and with image, audio, and video coming later.

[AI + machine learning](#) · Aug 7 · 3 min read

Announcing a new OpenAI feature for developers on Azure >

By [Steve Sweetman](#)

[Storage](#) · Aug 7 · 4 min read

New Azure Data Box capabilities to accelerate your offline data migration >

By [Manu Aery](#), Principal Program Manager, Azure Storage

[Management and governance](#) · Jul 18 · 7 min read

Latest advancements in Premium SSD v2 and Ultra Azure Managed Disks >

By [Sirius Kuttian](#), Principal Group PM Manager



Updates & Announcements

- ❖ [support on Apple Silicon Macs :: Generally Available](#)
- ❖ [Azure NetApp Files cross-zone replication :: Generally Available](#)
- ❖ [Pre-release version - Azure API Center Visual Studio Code extension now adding a pre-release version](#)
- ❖ [Model fine-tuning support for Kubernetes AI Toolchain Operator \(KAITO\) :: Generally Available](#)
- ❖ [OS SKU in-place migration for AKS](#)
- ❖ [Azure NetApp Files volume encryption key transition :: Public Preview](#)
- ❖ [Azure Carbon Optimization :: Public Preview](#)
- ❖ [Azure Container Storage for Ephemeral \(Local NVMe/Temp SSD\) and Azure Disk](#)
- ❖ [IT Service Management Connector \(ITSMC\) is now certified with ServiceNow Washington version](#)
- ❖ [vCore-based Azure Cosmos DB for MongoDB integration with Semantic Kernel \(.NET\)](#)
- ❖ [Long-term retention for CMK-enabled Azure Database for PostgreSQL - Flexible Server :: Public Preview](#)
- ❖ [Vaulted backup for Azure Blob Storage](#)
- ❖ [Retirement: Upgrade from Azure API Management stv1 to stv2 by Aug. 31, 2024](#)

[AI + machine learning](#)

· Aug 5 · 4 min read

Build AI-enabled applications with Azure AI and NVIDIA >

By [Seth Juarez](#)

[Azure API Management WordPress plugin enables customers to build highly customizable developer portals :: Public Preview](#)

[6th generation Intel-based VMs – Dv6/Ev6 :: Public Preview](#)

[Delete or Reset Azure Site Recovery replication appliance](#)

Azure Services Directory

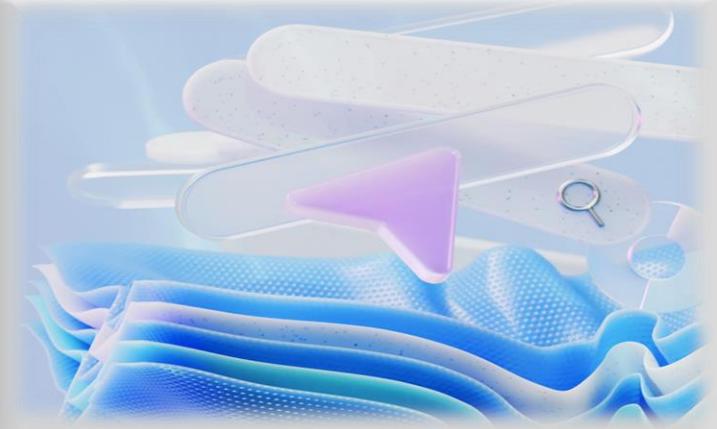


Azure AI Content Safety

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 Pipelines

Continuously build, test, and deploy to any platform and cloud

Azure Pipelines

- ❖ [Build, test, and deploy Node.js, Python, Java, PHP, Ruby, C/C++, .NET, Android, and iOS apps](#). Run in parallel on Linux, macOS, and Windows.
- ❖ Implement continuous delivery (CD) of your software to any cloud, including Azure, AWS, and GCP. Visualize deployment to any number of interdependent stages.
- ❖ Powerful workflows with native container support
- ❖ Deploy to Kubernetes, VMs, Azure Functions, Azure Web Apps, or any cloud.
- ❖ [See how the .NET infrastructure team at Microsoft](#) relies on Azure Pipelines to run millions of automated tests a day
- ❖ [Build, test, and deploy everything you create on GitHub](#)

Azure Services Directory

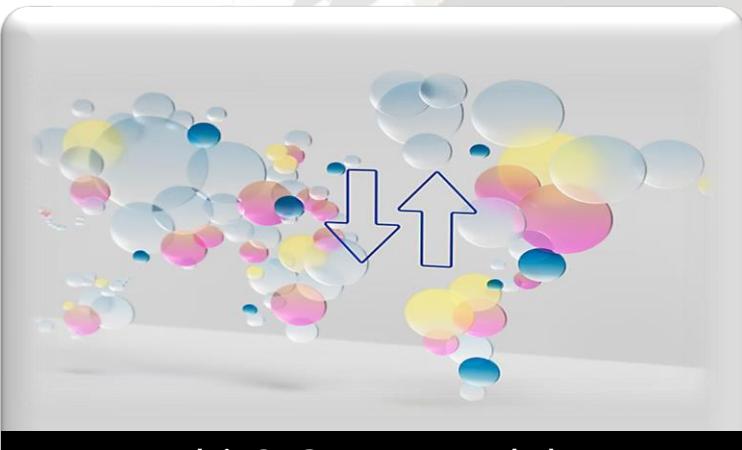


Azure AI Model Catalog

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.

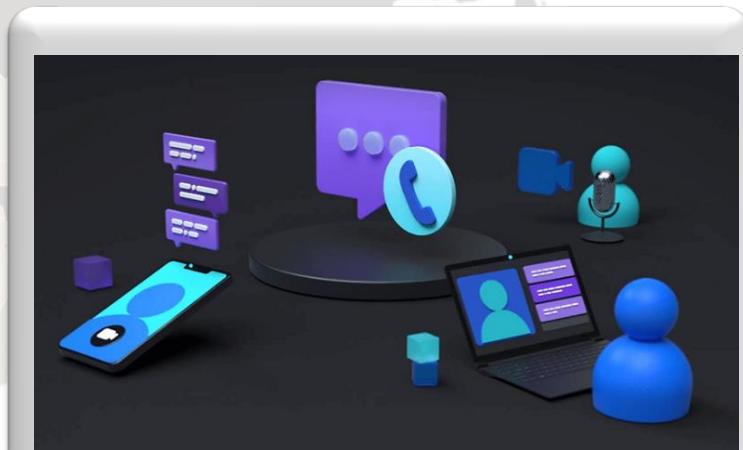


Phi-3 Open Models

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.



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 Microsoft Purview hub interface for Microsoft Fabric data. It displays a dashboard with various data items and metrics. Key sections include:

- Microsoft Fabric data**: A circular chart showing the distribution of data items across different types: Datasets (70), Dataflows (66), Workbooks (32), Reports (29), Dashboards (27), Notebooks (11), and SQL endpoints (49).
- Your Microsoft Fabric items**: A list of items categorized by type: Dataset, Dataflow, SQL endpoint, Notebook, Lakehouse, Report, Workbook, Data pipeline, Experiment, Dashboard, Model, QLQ database, and QLQ Queryset.
- Endorsed items by workspace**: A table showing endorsed items by workspace, including Admin monitoring, Contoso Finance, Contoso HR, Contoso IT, Contoso Marketing, Contoso Operations, Contoso Sales, fabrico, MFPWorkspace, MUDC Demo, Microsoft Fabric, Capacity Metrics, and Microsoft Fabric Capacity Metrics.
- Items by workspace**: A table showing items by workspace, including Contoso Sales, Contoso Finance, Contoso HR, Contoso IT, Contoso Marketing, Contoso Operations, Contoso Sales, fabrico, MFPWorkspace, MUDC Demo, Microsoft Fabric, Capacity Metrics, and Microsoft Fabric Capacity Metrics.
- Endorsed items by type**: A bar chart showing the count of endorsed items by type: 16 Workspaces and 332 total.
- Certified vs Promoted items**: A table comparing certified and promoted items across various categories.

DIFFERENTIATORS

Experience the next generation in analytics

Complete data platform Lake-centric and open Built for a data culture Powered by AI

Overview ▾

Single experience ▾

Governance and security ▾

Unified capacity ▾

Simplify billing and help reduce costs with a single pool of capacity and storage that can be used for every workload.

Data engineering
Design systems to help you organize and analyze large volumes of data.
[Learn how](#)

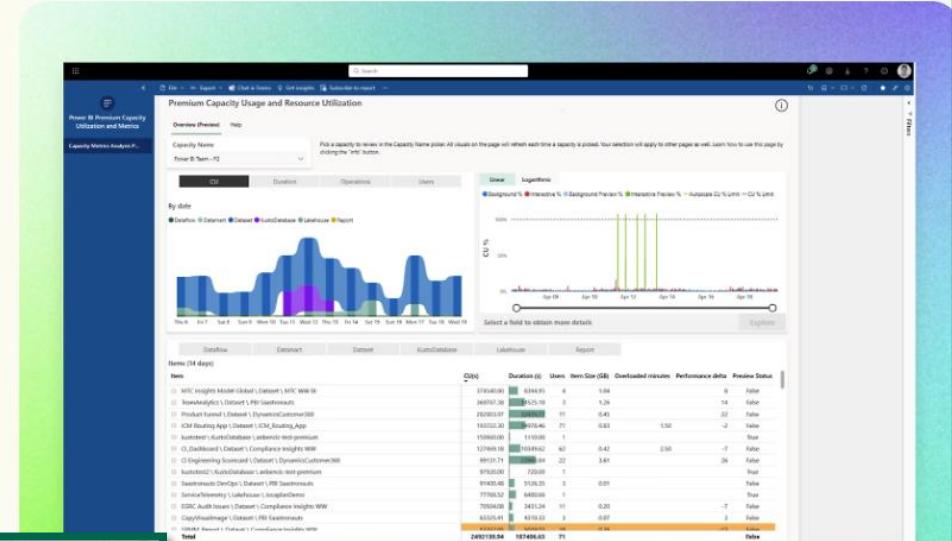
Data science
Use AI tools to build end-to-end workflows, enrich data, and improve insights.
[Learn how](#)

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](#)



Showcase Blog



Microsoft Showcase Series



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.

August 9, 2024 | Jason Kellington

Evolving our culture with Microsoft Viva

We're learning a lot from deploying Microsoft Viva here at Microsoft, lessons we want to share with you. Microsoft Viva is a digital employee-experience platform that brings together essential capabilities such as communications, knowledge, learning, and workplace insights in the...

July 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...

July 18, 2024 | Cristine Jung-Fassnidge

Enhancing space management internally at Microsoft with Wi-Fi data

Space management and employee engagement are two critical aspects of any modern workplace, including internally here at Microsoft. Figuring out how to get both right leads to important questions: How can organizations understand the best use of their building spaces,...

August 1, 2024 | Alex Fleck

Driving Copilot for Microsoft 365 adoption with our Copilot Champs Community

Nobody helps employees adopt a new tool like their peers—the people who know their responsibilities, their organizational culture, and their day-to-day tasks. In the initial stages of our Copilot for Microsoft 365 adoption, a technology that brings many new possibilities...

Microsoft Research Blog

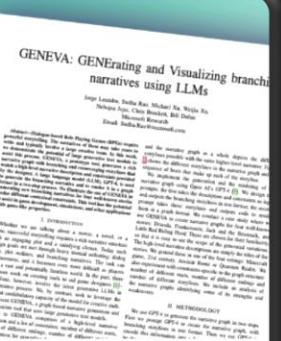
Large-scale pathology foundation models show promise on a variety of cancer-related tasks >

August 8, 2024 | [Kristen Severson](#) and [Philip Rosenfield](#)

Microsoft researchers collaborated to release new pathology foundation models. Their report shows models benefit from diverse data, increased model size, and specialized algorithms to...



IEEE · 2024
CONFERENCE
ON GAMES



GENEVA uses large language models for interactive game narrative design >

August 5, 2024 | [Sudha Rao](#), [Chris Brockett](#), and [Bill Dolan](#)

Designed for interactive storytelling in games, GENEVA lets users explore narrative paths and adapt stories to diverse contexts. It uses LLMs to generate and visualize branching narratives from high-level descriptions, representing them as graphs.



Players, creators, and AI collaborate to build and expand rich game narratives >

August 5, 2024 | [Sudha Rao](#), [Chris Brockett](#), and [Bill Dolan](#)

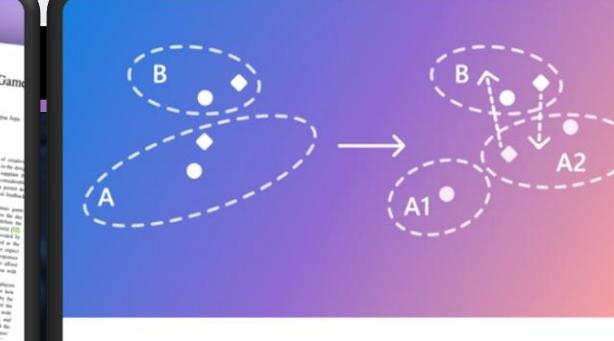
Integrating LLMs in video game development can create dynamic and interactive narratives. By involving players in the narrative design process, LLMs can generate unique player-driven strategies and provide valuable feedback for game designers.



Tracing the path to self-adapting AI agents >

July 25, 2024 | [Ching-An Cheng](#), [Adith Swaminathan](#), and [Allen Nie](#)

Introducing Trace, Microsoft and Stanford University's novel AI optimization framework, now available as a Python library. Trace adapts dynamically and optimizes a wide range of applications from language models to robot control.



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 and are poised to drive innovation in underlying hardware, laying the foundation for data-enhanced AI.



Data-driven model improves accuracy in predicting EV battery degradation >

July 16, 2024

Microsoft Research and Nissan Motor Corporation have collaborated to develop a machine learning model that improves the accuracy of predicting EV battery degradation by 80%. Learn how this collaboration supports long-term sustainability goals.

RESEARCH FOCUS JULY 15, 2024

Research Focus: Week of July 15, 2024 >

July 17, 2024

Advancing time series analysis with multi-granularity guided diffusion model; An algorithm-system co-design for fast, scalable MoE inference; What makes a search metric successful in large-scale settings; learning to solve PDEs without simulated data.



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

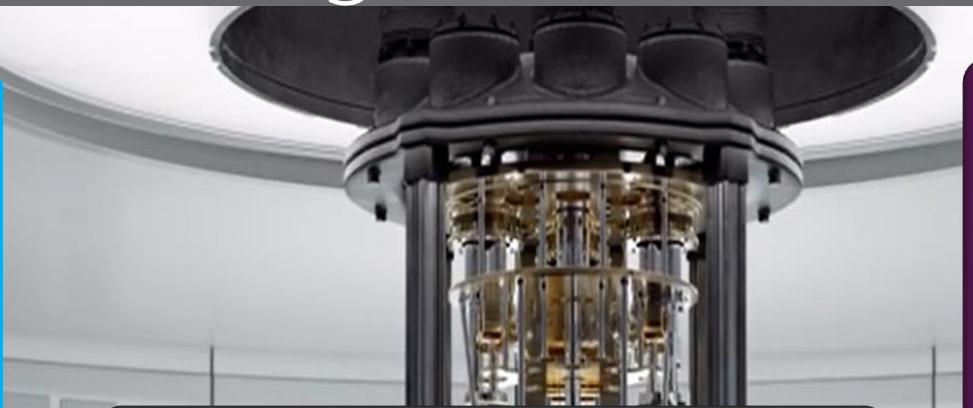
by Dr. Nathan Baker, Product Leader, Azure Quantum Elements, Microsoft

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:

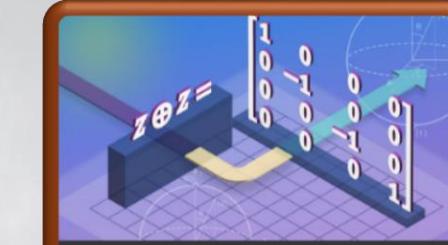
- "Explain the MResetZ operation"
- "Write Q# code that entangles two qubits"
- "Explain quantum interference"



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.

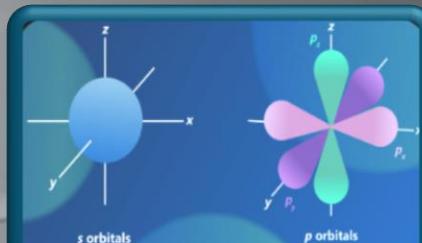
[Try now >](#)



Quantum tutorials

Try the Azure Quantum "katas": free, self-paced quantum programming exercises that teach the elements of quantum computing and the Q# programming language.

[Try now >](#)



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.

[Try now >](#)



Quantum & crypto

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

[Try now >](#)



A woman with long brown hair tied in a braid, wearing a white ribbed sweater, sits in a black airport-style chair. She is looking down at a dark tablet or notebook she is holding in her lap, writing with a silver pen. In front of her is a dark grey laptop. The background shows large windows and other airport seating. The bottom half of the image has a blue gradient overlay.

Learning and Training

Microsoft Events and Training: Updates



Microsoft Virtual Training Days

Gain new skills by attending a free technical skilling event with Microsoft

[Register now >](#)

Browse all courses, learning paths, and modules

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

Further your goals with Microsoft events

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

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

Dashboard in a Day - IronEdge Group - United States

08/29/2024 | 09:00 - 17:00 (CDT)

Digital
English (United States)
Training



Azure

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

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

Date & Time: Thu 29 Aug 2024, 12:00 PM - 03:30 PM

Timezone: EDT
Country: United States
Skill Level: Intermediate

Copilot Studio in a Day - SkyPoint Cloud - United States

08/28/2024 | 11:00 - 19:00 (CDT)

Digital
English (United States)
Training

Azure

Microsoft Azure Virtual Training Day: Generative AI Fundamentals

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

Date & Time: Fri 06 Sep 2024, 12:00 PM - 02:30 PM

Timezone: EDT
Country: United States
Skill Level: Beginner

Security

Microsoft Security Virtual Training Day: Implement Data Security with Microsoft Purview

Gain insights into recognizing sensitive data, identifying data security risks, and developing a comprehensive data strategy.

Date & Time: Wed 21 Aug 2024, 12:00 PM - 03:00 PM

Timezone: EDT
Country: United States
Skill Level: Intermediate



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](#)

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

ESI Training Journey

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



The slide features the Microsoft logo at the top left. The background is white with abstract grey line art on the right side. A large, bold title 'Microsoft Azure Training Journey' is centered. Below it is a horizontal blue line. At the bottom left, there's a callout with the URL 'aka.ms/ESAzureTrainingJourney' and the text 'Last updated March 2023'. On the right side, there are three overlapping photographs showing people working on computers. One photo shows two women, another shows a woman and a man, and the third shows a person's hands on a keyboard.

<https://aka.ms/ESIAzureTrainingJourney>

Azure AI Engineer Learning Pathway

www.aka.ms/pathways

Getting started

Additional St

Cognitive Services

- What are Cognitive Services?
- Quickly Create a Cognitive Services resource using the Azure portal
- Provision and manage Azure Cognitive Services
- Azure Cognitive Services – Privacy Policy
- Manage Cognitive Services keys
- Authenticate requests to Azure Cognitive Service
- Computer Vision
- What is Computer Vision?
- Optical Character Recognition (OCR)
- What is Face Recognition API?
- What is Emotion Recognizer?
- Cognitive Service Containies
- Process and classify images with the Azure Cognitive Vision Services
- Quickstart: Build a classifier with the Custom Vision website
- Quickstart: Build object detector with the Custom Vision website
- Deploy a model to Azure Container Instances

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Computer Vision

- New to the Cloud or Azure? Start with [Azure Fundamentals](#)
- New to AI on Azure? Check out our [Azure AI Fundamentals certification](#)
- Watch the [Azure AI Essentials](#) video series to get familiar with Azure AI products and services and learn how to bring these components together to build AI applications > [HERE](#)

Getting Started:

- Build your Tech resilience
- Get started with artificial intelligence on Azure
- Microsoft Business School
- Microsoft Cognitive Services Blog
- Azure Developer Guide
- Responsible AI Principles
- Choose a bot-building tool
- Computer Vision
- Cognitive Service for Language
- Azure Cognitive Services
- Speech-to-text documentation
- Anomaly Detector API
- Documentation

Microsoft Learn

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- Responsible AI Principles
- Choose a bot-building tool
- Computer Vision
- Cognitive Service for Language
- Azure Cognitive Services
- Speech-to-text documentation
- Anomaly Detector API
- Documentation

DOWNLOAD

Zero to hero in 4 weeks with Azure AI

A guide to achieving artificial intelligence expertise on Azure

With cloud AI services and tools, new developers can leverage AI to create innovative applications that solve complex problems.

Use this guide to learn how to build a conversational application using Azure AI in only 4 weeks by: completing less than one hour each week; writing code in C# or Python; and learning how to use AI services in your app accordingly with the tools and frameworks of choice.

This guide is designed for software engineers who want to learn AI concepts, a step-by-step training, and try what you learned with a hands-on exercise. This will help you to build a solid foundation to successfully complete your AI Fundamentals certification.

[Learn more!](#)

Audience Profile

Software engineers concerned with building, managing and deploying AI solutions that leverage Azure Cognitive Services, Azure Cognitive Search, and Microsoft Bot Framework. They are familiar with C# or Python and have knowledge on using REST-based APIs to build computer vision, language analysis, knowledge mining, intelligent search, and conversational AI solutions on Azure.

Getting Started:

- New to the Cloud or Azure? Start with [Azure Fundamentals](#)
- New to AI on Azure? Check out our [Azure AI Fundamentals certification](#)
- Watch the [Azure AI Essentials](#) video series to get familiar with Azure AI products and services and learn how to bring these components together to build AI applications > [HERE](#)

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Microsoft Learn

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- Computer Vision
- Cognitive Service for Language
- Azure Cognitive Services
- Speech-to-text documentation
- Anomaly Detector API
- Documentation

DOWNLOAD

Microsoft Security Operations Analyst

www.aka.ms/pathways

Getting started

- New to the Cloud or Azure? Start with Azure Fundamentals
- New to Security? Continue with Microsoft Security, Compliance, and Identity Fundamentals

Cloud-native Security Operations with Microsoft Sentinel

Explore basic architecture, core capabilities, and primary use cases of its products.

- Introduction to Microsoft Sentinel
- Deploy Sentinel and connect data sources
- Threat detection with Sentinel analytics
- Security incident management
- Threat hunting with Microsoft Sentinel
- Threat response with Sentinel playbooks
- Query, visualize, and monitor data

Mitigate threats using Microsoft 365 Defender:

- Learn about common threats
- Microsoft 365 Defender Suite
- Introduction to Microsoft Defender for Office 365
- Automate, investigate, and remediate
- Configure, protect, and detect
- Describe data loss prevention alerts
- Investigate data loss prevention alerts in Microsoft 365 compliance
- Investigate data loss prevention alerts in Microsoft Cloud App Security
- Insider risk management overview
- Introduction to managing insider risk policies
- Explain security operations in Microsoft Defender for Endpoint
- Understand attack surface reduction
- Enable attack surface reduction rules
- Configure advanced features
- Configure alert notifications
- Manage custom detections
- Manage and investigate incidents

Additional Study

- Manage and investigate alerts
- Configure automated investigation and remediation capabilities
- Explore vulnerabilities on your devices
- Understand threat intelligence concepts
- Track emerging threats with threat analytics
- Azure AD Identity Protection overview
- Detect risks with Azure AD Identity Protection policies
- Building a Conditional Access policy
- Investigate and remediate risks detected by Azure AD Identity Protection
- Microsoft Secure Score
- Create an access review of Azure AD roles in Privileged Identity Management
- Azure Active Directory Identity Protection notifications
- Introduction to Microsoft Defender for Identity
- Review compromised accounts or data
- Understand the Cloud App Security Framework
- Classify and protect sensitive information
- Detect Threats
- Microsoft 365 Defender
- Manage incidents
- Use the action centre
- Hunt for threats across dev/test apps, and identities

Mitigate threats using Microsoft Azure Sentinel:

- Define the concepts of SIEM, SOAR, XDR
- Describe how Sentinel provides integrated threat protection
- Plan for the Microsoft Sentinel workspace
- Permissions in Microsoft Sentinel
- Archive data from Log Analytics workspace to Azure Log Analytics
- Log Analytics workspace Logic App
- Log Analytics workspace data export in Azure Monitor
- Azure security baseline for Microsoft Sentinel
- Connect data to Microsoft Sentinel using data connectors
- Collect log Analytics data sources with Log Analytics agent
- Collect data from Linux-based sources

Role Based Certification

Security Operations Analyst

Exam SC-200: Microsoft Security Operations Analyst

Skills Measured:

- Mitigate threats using 365 Defender
- Mitigate threats using Defender for Cloud
- Mitigate threats using Microsoft Sentinel

Microsoft Learn

- Mitigate threats using 365 Defender
- Mitigate threats using Microsoft Purview
- Mitigate threats using Defender for Endpoint
- Mitigate threats using Defender for Cloud
- Create queries for Sentinel using Kusto Query Language (KQL)

Fabric Learning Companion

www.aka.ms/pathways

Getting started with Microsoft Fabric

September 2023

Reshape how everyone accesses, manages, and acts on data and insights by connecting every data source and analytics service together—on a single, AI-powered platform.

Discover how Microsoft Fabric can meet your enterprise's analytics needs in one platform. Learn about Microsoft Fabric, how it works, and identify how you can use it for your analytics needs.

The slide features the Microsoft logo in the top left corner. The background is white with a decorative graphic of overlapping rounded rectangles in light gray, white, and blue. Overlaid on this graphic are several small, semi-transparent circular images showing people in various training scenarios: a man in a suit, a woman in a white shirt, a person at a computer, and hands on a keyboard. The main title 'Microsoft Security, Compliance, and Identity Training Journey' is centered in large, bold, black font. Below the title is a horizontal line with a color gradient from purple to green. At the bottom left, there is a callout box containing the URL 'Find the most recent version at aka.ms/ESITrainingJourney' and the text 'Last updated March 2023'. The bottom right corner contains the copyright notice '© Microsoft Corporation. All rights reserved.'.

<https://aka.ms/ESISecurityTrainingJourney>

September 2023

Fabric Learning Companion

www.aka.ms/pathways

The diagram illustrates the Microsoft Fabric Learning Companion, organized into several main sections:

- Getting started with Microsoft Fabric**: Reshape how everyone accesses, manages, and acts on data and insights by connecting every data source and analytics service together—on a single, AI-powered platform.
- Discover how Microsoft Fabric can meet your enterprise's analytics needs in one platform.** Learn about Microsoft Fabric, how it works, and identify how you can use it for your analytics needs.
- Introduction to end-to-end analytics using Microsoft Fabric**: Ingest Data with Dataflows Gen2 in Microsoft Fabric, Get started with data warehouses in Microsoft Fabric, Use Apache Spark in Microsoft Fabric, Work with Delta Lake tables in Microsoft Fabric, Use Data Factory pipelines in Microsoft Fabric.
- Implement a Lakehouse with Microsoft Fabric**: A Lakehouse combined the flexible and scalable storage of a data lake with the analytical querying and modelling capabilities of a data warehouse. Microsoft Fabric provides a lakehouse solution that powers end-to-end data analytics in a single software-as-a-service platform. This learning path introduces the foundational components of implementing a data lakehouse with Microsoft Fabric.
- Organise a Fabric lakehouse using medallion architecture design**: Explore the potential of the medallion architecture design in Microsoft Fabric. Organize and transform your data across Bronze, Silver, and Gold layers of a lakehouse for optimized analytics.
- Microsoft Fabric Documentation** (Central Hub):
 - Get Started**: What is Fabric?, Microsoft Fabric licenses, Buy a Microsoft Fabric subscription, Navigate the Fabric portal, Workspaces in Fabric, See more.
 - Synapse Data Engineering**: What is Data Engineering?, Create a Lakehouse, Create a Spark job definition, See more.
 - Synapse Data Science**: What is Data science?, Machine learning experiment, Use end-to-end AI samples, See more.
 - Synapse Data Warehouse**: What is Data Warehouse?, Create a Warehouse, Query using SQL query editor, See more.
 - Synapse Real-Time Analytics**: What is Real-Time Analytics?, What is Event streams?, Create a database, See more.
 - Admin and Governance**: Buy a Microsoft Fabric subscription, Fabric administration, Data governance and compliance, Security, See more.
 - Developer Experience**: REST APIs, Deployment pipelines, Git integration, See more.
 - Troubleshooting**: Create a support ticket, Known issues, Troubleshoot issues, See more.
 - Training Modules**: End-to-end analytics using Fabric, Get started with lakehouses, Use Data Factory pipelines, Get started with Data science, See more.
- Other Fabric Resources**: Fabric, a unified software-as-a-service (SaaS) offering, reshapes how you use data. Data is now stored in a single open format in OneLake, accessible by all the analytics engines in the platform. Fabric offers scalability, cost-effectiveness, accessibility from anywhere with an internet connection, and continuous updates and maintenance provided by Microsoft.
 - Fabric website
 - Microsoft Fabric Documentation
 - End-to-end tutorials in Microsoft Fabric
 - Get the free e-book on getting started with Fabric
 - Microsoft Fabric Guided Tour
 - Webinar Series: Introduction to Microsoft Fabric
 - Join the Fabric Community

Microsoft Learning and Training :: Learning Blog



CAREER PATHS

Find your career path



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

Explore career paths

MODULE

Introduction to the Microsoft Azure Well-Architected Framework



⌚ 1 hr 4 min

Beginner • Solution Architect • Azure

MODULE

Build natural language solutions with Azure OpenAI Service



⌚ 57 min

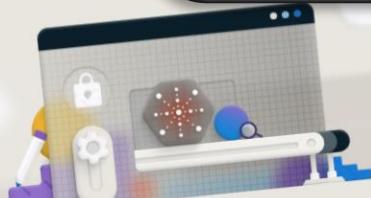
Azure • AI Engineer • Intermediate

⊕ Add

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

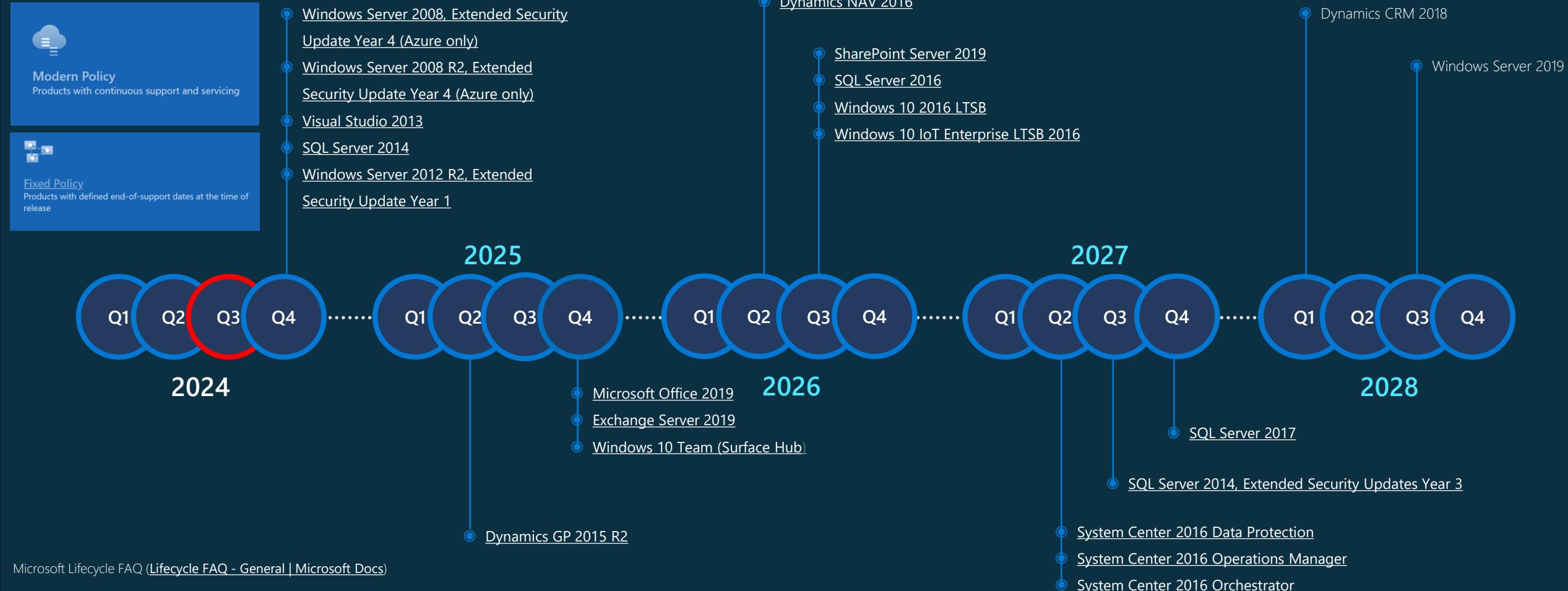
⊕ Add

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

Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

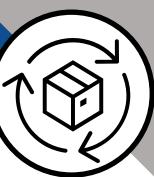
Announcements

- ➡ Windows 11, version 22H2 end of updates (Home, Pro)
- ➡ Windows 11, version 21H2 end of updates (Enterprise, Education)
- ➡ Azure Service Manager products retiring on August 31, 2024
- ➡ Support for TLS 1.0 and TLS 1.1 will end by October 31, 2024
- ➡ Update: Teams Live Events no longer retiring September 30, 2024
- ➡ Windows 10, version 21H2 end of updates (Enterprise, Education)

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

[See more >](#)

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

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	
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	
	January 9, 2024
Azure DevOps Server 2019	
System Center 2019 Data Protection Manager	
System Center 2019 Operations Manager	
System Center 2019 Orchestrator	
System Center 2019 Service Manager	
System Center 2019 Virtual Machine Manager	
Visual Studio 2019	
	April 9, 2024

Products Moving to Extended Support for 2025

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

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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- [Microsoft Defender Mind Map](#)

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Www.microsoft.com/en-us/security/blog (Live feed)

AgentSmith HIDS – Host Based Intrusion Detection

3 months ago – AgentSmith HIDS is a powerful component of a Host-based Intrusion Detection system, it has anti-rootkit functionalities and is a very performant way to collect information about a host.

padre – Padding Oracle Attack Exploiter Tool

6 months ago – padre is an advanced exploiter and Padding Oracle attack tool that can be deployed against CBC mode encryption.

MSrc-blog.microsoft.com/feed/report/list (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...

Microsoft Bug Bounty Program Year in Review: \$13.8...

Microsoft mitigates Power Platform Custom Code inf...

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MSRC & MSTIC (Live feed)

Microsoft guidance regarding credentials leaked to G...

Chromium: CVE-2023-6112 Use after free in Navigation

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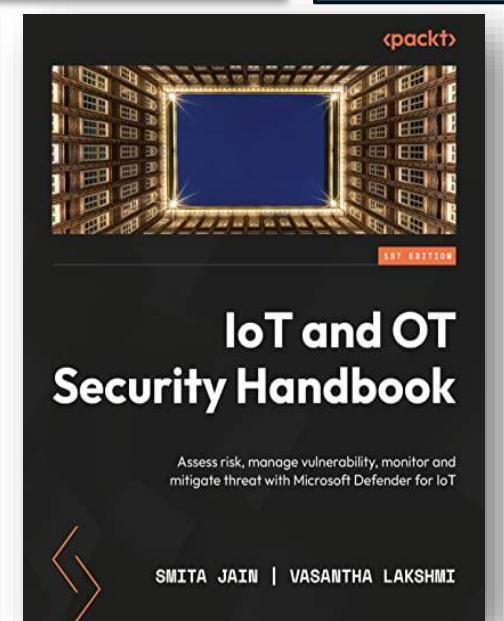
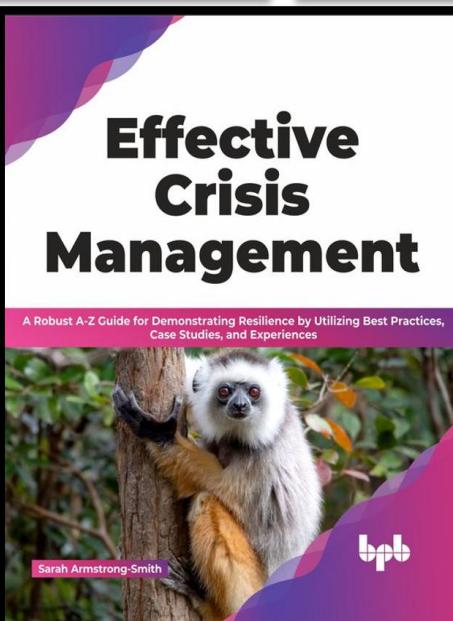
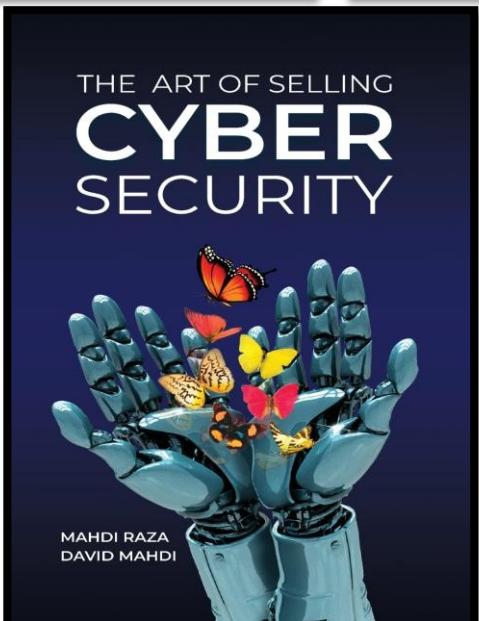
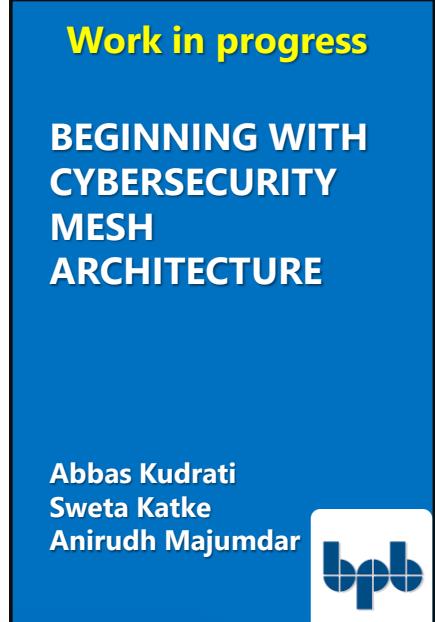
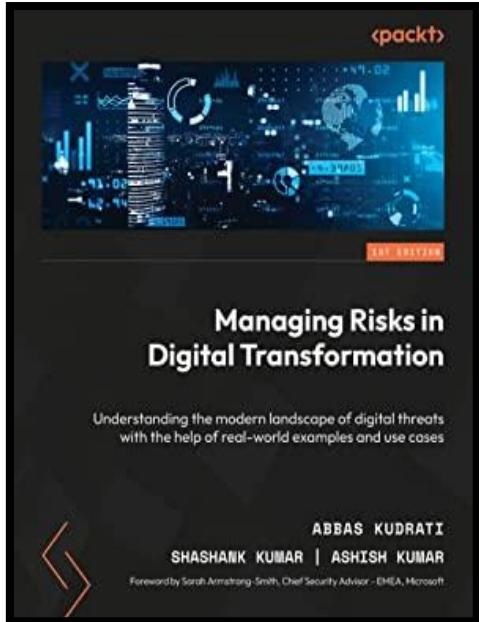
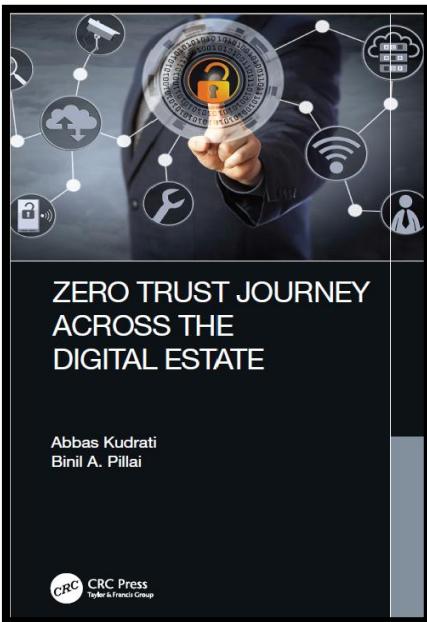
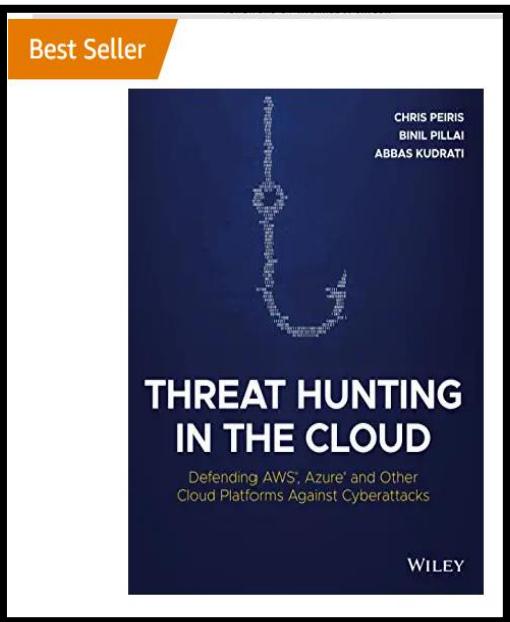
CVE-2023-36008 Microsoft Edge (Chromium-based) ...

CVE-2023-36026 Microsoft Edge (Chromium-based) ...

CVE-2021-1730 Microsoft Exchange Server Spoofing ...

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