



Microsoft

Monthly Tech Briefing

OCTOBER 2023



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

Microsoft

- [Microsoft Power Platform Conference 2023](#)
- [Microsoft Ignite 2023](#)
- [Microsoft and OpenAI Announcements](#)
- [Microsoft Tech Community Blog depot](#)
- [Microsoft Official Blog](#)
- [TechCommunity Events](#)
- [Microsoft Technical Documentation Hub](#)



Announcements and Tips

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



Security and Compliance

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



Microsoft 365 update information



New trends with Microsoft Technology

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



Showcase of the month



Product Lifecycles

Acquisitions and Announcements

- [Products Reaching End of Support in 2023 and 2024](#)
- [Companies and Technologies Acquired Since 2018](#)

OCTOBER 3RD-5TH, 2023

Microsoft Power Platform Conference

Oct 3-5, 2023 in Las Vegas, Nevada at the MGM Grand Conference Center.

Register Today!



emPOWER everyone

October 3 - 5

Workshops 1, 2 and 6 **2023**

Las Vegas • Nevada • #MPPC23

Power BI

Power Apps

Power Automate

Power Virtual Agents

Power Pages



Microsoft Power Platform Conference

Produced by Power Platform Conf | Sponsored by Microsoft

We are excited to announce the second annual **Microsoft Power Platform Conference 2023**! This event is sponsored by Microsoft and will be held in-person on October 3-5 in Las Vegas, Nevada.

Come and get inspired by Microsoft's senior thought leaders, software engineers, and community experts who are focused on uniting humanity and technology. You'll also have the chance to hear from users that solve real business problems daily. Our fantastic speakers are ready to share their insights on how to accelerate and transform your business with Power Platform.

This one-of-a-kind event is **dedicated** to Microsoft Power Platform products including Power Apps, Power Automate, Power BI, Power Pages, and Power Virtual Agents.

You'll have insider access to all the information, opportunities, and connections you need to further your Power Platform journey.

- **Understand how your peers** are using the Power Platform and putting them to work
- **Get new ideas** on how you can utilize the tools in more useful ways
- **Meet new #PowerAddicts** just like you!
- **Learn about** all the tools in the platform
- **Give your organization the edge it needs** to provide a more productive and exciting work environment
- **Ask product experts** your questions during the live Q&A



Experience AI transformation in action at Microsoft Ignite

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

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

[Register now](#)

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

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

[Join us in Seattle >](#)

Sold out

Join online from anywhere
November 15–16, 2023 PT

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

[Join us online >](#)

Microsoft Envision

The Tour

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

Register for a tour
location today



London, UK

October 18, 2023

[Register today >](#)



Mumbai, India

January 31, 2024

[Registration details coming soon](#)



Sydney, Australia

February 7, 2024

[Registration details coming soon](#)



Mexico City, Mexico

February 20, 2024

[Registration details coming soon](#)



Paris, France

March 12, 2024

[Registration details coming soon](#)



Tokyo, Japan

March 14, 2024

[Registration details coming soon](#)

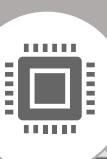
Oct 4, 2023 | [Judson Althoff - Executive Vice President and Chief Commercial Officer](#)

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

Updates of Security and Compliance



Monitoring Global Threats: Microsoft :: Threat Intelligence Blog



Select a region ▾

Global threat activity

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

Most affected industries

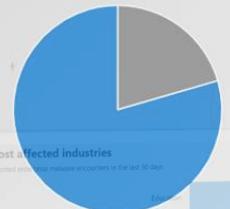
Reported enterprise malware encounters in the last 30 days

Education

Show all industries >

Devices with encounters:

6,802,438 (79.48%)



[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Cloud threats](#) · Oct 3 · 9 min read

Defending new vectors: Threat actors attempt SQL Server to cloud lateral movement >

Microsoft security researchers recently identified an attack where attackers attempted to move laterally to a cloud environment through a SQL Server instance. The attackers initially exploited a SQL injection vulnerability in an application within the target's environment to gain access and elevated permissions to a Microsoft SQL Server instance deployed in an Azure Virtual Machine...

Microsoft Security Response Center

Worldwide

77,904,674 devices with encounters

Top threats:

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

[Research](#) [Threat intelligence](#) [Microsoft Defender Vulnerability Management](#) [Vulnerabilities and exploits](#) · Sep 14 · 13 min read

Uncursing the ncurses: Memory corruption vulnerabilities found in library >

A set of memory corruption vulnerabilities in the ncurses library could have allowed attackers to chain the vulnerabilities to elevate privileges and run code in the targeted program's context or perform other malicious actions....

[Research](#) [Threat intelligence](#) [Microsoft Defender](#) [Threat actors](#) · Sep 14 · 10 min read

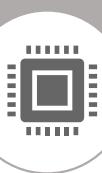
Peach Sandstorm password spray campaigns enable intelligence collection at high-value targets >

Since February 2023, Microsoft has observed a high volume of password spray attacks attributed to Peach Sandstorm, an Iranian nation-state group. In a small number of cases, Peach Sandstorm successfully authenticated to an account and used a combination of publicly available and custom tools for persistence, lateral movement, and exfiltration....

Microsoft's Response to Open-Source Vulnerabilities - CVE-2023-4863 and CVE-2023-5217

Monday, October 02, 2023

Microsoft is aware and has released patches associated with the two Open-Source Software security vulnerabilities, CVE-2023-4863 and CVE-2023-5217. Through our investigation, we found that these affect a subset of our products and as of today, we have addressed them in our products as outlined below: CVE-2023-4863 Microsoft Edge Microsoft Teams for Desktop Skype for Desktop Webp Image Extensions (Released on Windows and updates through Microsoft Store) CVE-2023-5217



Microsoft compliance offerings

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

Azure, Dynamics 365, and Microsoft 365 compliance offerings

Information for Azure, Dynamics 365, Microsoft 365, and Power Platform, and other services to help with national, regional, and industry-specific regulations for data collection.

Global

- ISO 27017
- CSA-STAR attestation
- CSA-STAR certification
- CSA-STAR self-assessment
- CyberGRX
- ISO 20000-1:2011
- ISO 22301
- ISO 27001

Global

- ISO 27018
- ISO 27701
- ISO 9001
- SOC 1
- SOC 2
- SOC 3
- WCAG

Industry

- 23 NYCCR Part 500
- AFM + DNB (Netherlands)
- APRA (Australia)
- AMF and ACPR (France)
- CDSA
- CFTC 1.31 (US)
- DPP (UK)
- EBA (EU)
- FACT (UK)
- FCA + PRA (UK)
- FDA CFR Title

Industry

- FERPA
- FFIEC (US)
- FINMA (Switzerland)
- FINRA 4511 (US)

[News](#) [AI and machine learning](#) [Microsoft Intune](#) · Sep 26 · 6 min read

New security features in Windows 11 protect users and empower IT >

Windows 11 is designed to simplify security with features from the chip to the cloud that are on by default. Since its launch, we've seen a 58 percent reduction in security. Learn more about the new features.

Regional

- ABS OSMPAR (Singapore)

Regional

- DJCP (China)

Regional

- IDW PS 951 (Germany)

Regional

- National Information Assurance (Qatar)
(New Zealand)

ization (Russia)

[Events](#) [AI and machine learning](#) [Microsoft Security Copilot](#) · Sep 28 · 4 min read

Join the new Microsoft Security experience at Microsoft Ignite 2023 >

Join Microsoft Security at Microsoft Ignite 2023 for the latest security insights, hands-on skilling, product innovations, in-person networking, and more.

[News](#) [Analyst reports](#) · Sep 19 · 3 min read

Forrester names Microsoft a Leader in the 2023 Zero Trust Platform Providers Wave™ report >

Microsoft is proud to be recognized as a Leader in The Forrester Wave™: Zero Trust Platform Providers, Q3 2023 report.

[News](#) [Endpoint security](#) [Microsoft Defender for Endpoint](#) · Oct 11 · 5 min read

Microsoft Defender for Endpoint now stops human-operated attacks on its own >

Today, we're pleased to announce that Microsoft Defender for Endpoint customers will now be able automatically to disrupt human-operated attacks like ransomware early in the kill chain without needing to deploy any other capabilities. Now, organizations only need to onboard their devices to Defender for Endpoint to start realizing the benefits of attack disruption.

[Events](#) [AI and machine learning](#) · Sep 21 · 6 min read

New Microsoft security tools to protect families and businesses >

Today, Microsoft announced several major innovations to empower people across work and life and redefine how we live and work with AI.

[News](#) [Analyst reports](#) [Microsoft 365 Defender](#) · 8 min read

Microsoft 365 Defender demonstrates 100 percent protection coverage in the 2023 MITRE Engenuity ATT&CK® Evaluations: Enterprise

By Tanmay Ganacharya, Partner Director, Security Research, Microsoft 365 Defender



Microsoft 365 update information



Copilot

Your everyday AI companion

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

Announcing Microsoft Copilot, your everyday AI companion >



Microsoft Copilots

Bing



Edge



Word



Outlook



M365 Copilot

Excel



PowerPoint



Teams



Business Chat



Windows Copilot



Better interaction with OS, apps, and files

Copilot for Everyday

Better Q&A and task completion
Better interaction with web content

Copilots for Web

Better reading and writing assistance

Better e-mail management

Better data analysis

Better presentations

Better Meetings

Better knowledge management

Copilots for Productivity

Dynamics Copilot



Better sales and customer support

Fabric Copilot



Better data analytics and business intelligence

Copilots for Business

Security Copilot



Better threat detection, identification, and mitigation

GitHub Copilot



Better code development

Power Platform Copilot



Better creation of apps, workflows, and agents

Copilots for Analytics

Copilot for Security

Copilot for Development

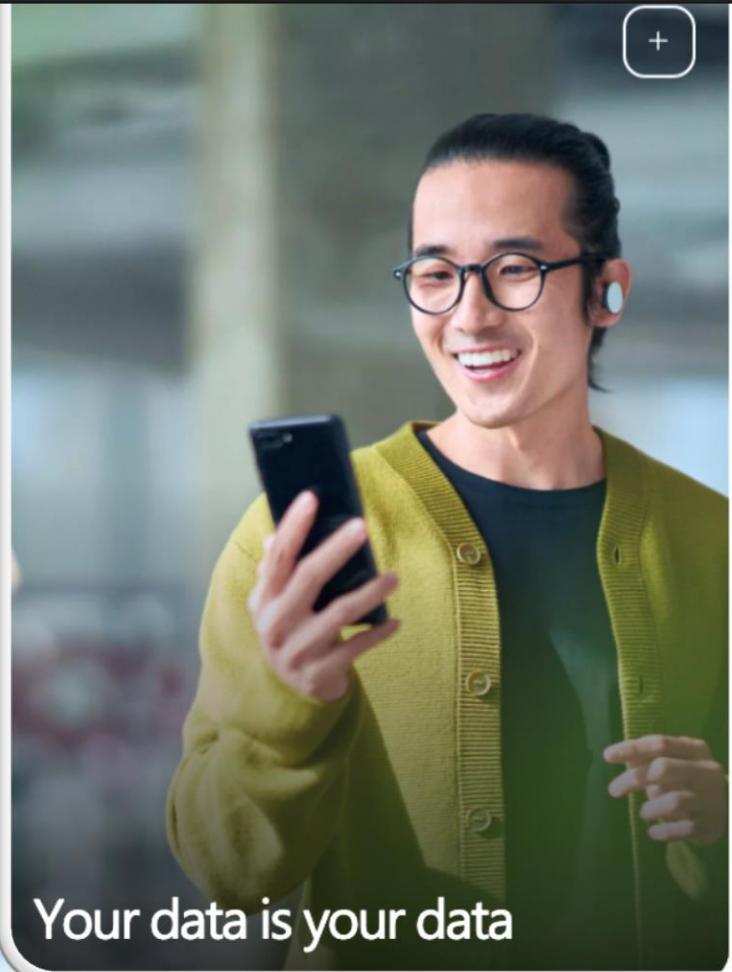
Copilot for Low/No Code Development

Microsoft AI runs on Trust

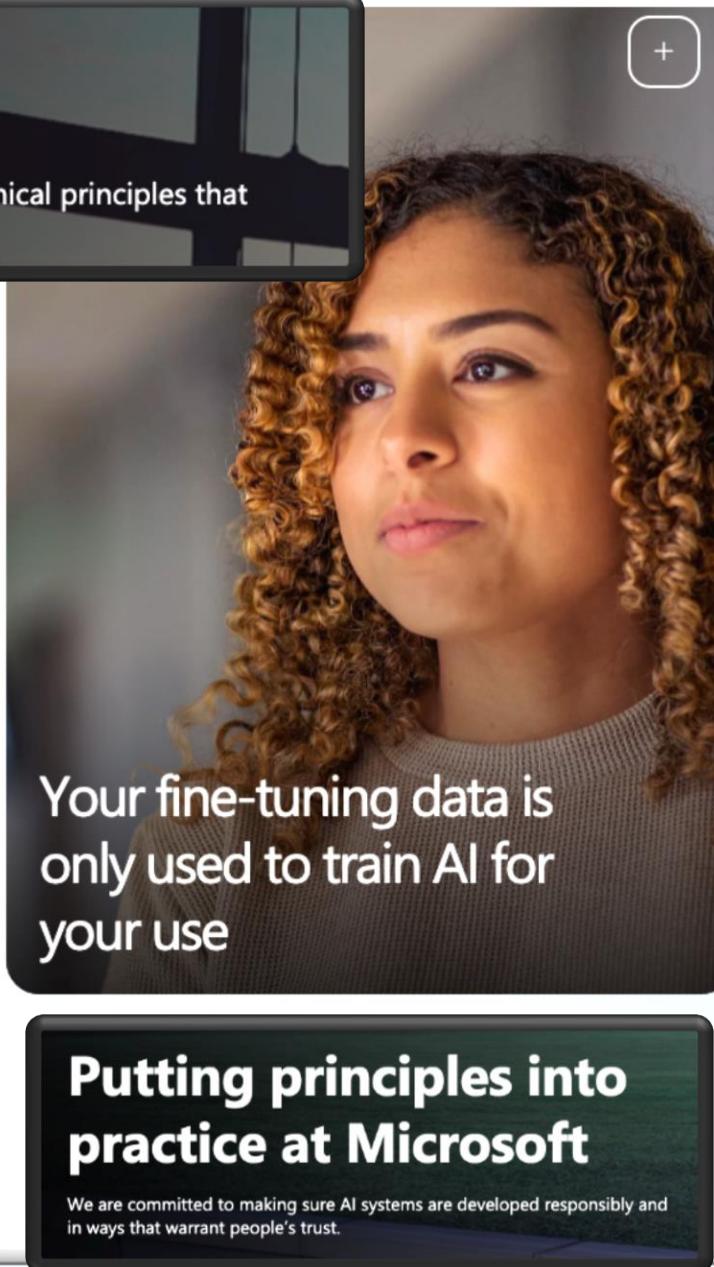


Responsible AI

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



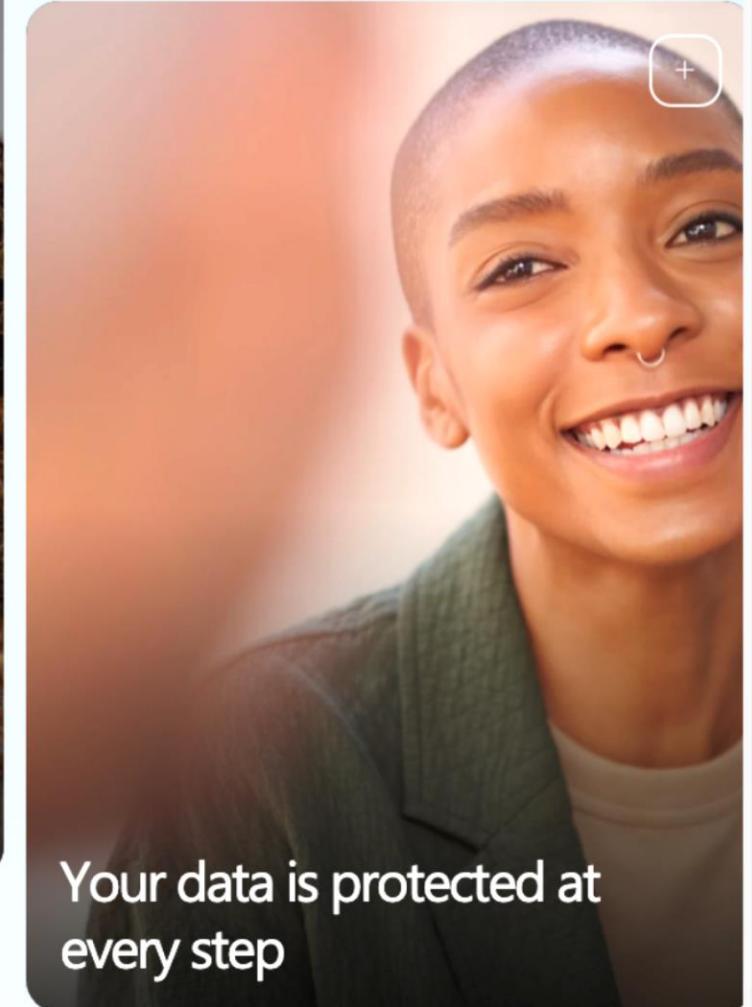
Your data is your data



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.



Your data is protected at every step

Bing Chat:



Understanding the AI Options

	ChatGPT	Bing Chat	Bing Chat Enterprise	Microsoft 365 Copilot
Personal	✓	✓	✓	✓
Work		✓	✓	✓
GPT Large Language Model	✓	✓	✓	✓
AI-Powered Web Search, Answers & Content Generation		✓	✓	✓
Commercial Data Protection			✓	✓
Microsoft 365 Enterprise Security, Compliance & Privacy			✓	✓
Microsoft 365 Graph (content & context)			✓*	✓
Business Chat				✓
Microsoft 365 Apps				✓

*) Subject to be changed – work in progress and only relevant for M365 Copilot EAP customer so far.

Not an official Microsoft slide!

Privacy and protections

Access to Organizational Data

- Bing Chat Enterprise, by default, has no access to your organizational data
- There are 3 exceptions
 - 1. If you're using M365 copilot, then Bing Chat Enterprise is included and can access data that copilot has access to
 - 2. or if you provide organizational data in your prompt
 - 3. or if you check the box "Allow access to any webpage or PDF" + have a tab open with organizational data in your browser

Bing Chat Enterprise

Business data is protected



User and business data is protected and will not leak outside the organization.

Chat data is not saved



Chat data is not saved, and no one at Microsoft can view customer data.

Data is not used to train the model



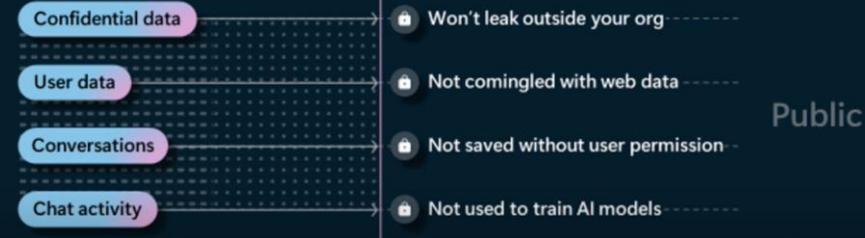
Chat data is not used to train the Large Language Models used by AI.

Bing Chat Enterprise

AI-powered chat for work

Commercial Data Protection

Private



Microsoft Fasttrack M365 Copilot Workshop



Roles assisting the M365 Copilot experience



Utilize your assistance

Copilot CSA

- Deliver M365 Copilot workshop and secure business intent
- Build customer trust in M365 Copilot and AI value addressing data & security concerns
- Help customers setup center of excellence
- Start: Automatically **after** Copilot contract is signed

FastTrack

- Guide deployment of most of the prerequisites
- Assist deployment of highly recommended services and features
- Main contact: FastTrack Architect
- Start: Assistance possible **before** Copilot contract is signed, usually engaged already

Support

- Support tickets and technical issues for M365 Copilot, various technical workshops
- Main contact: CSAM
- Start: Via Unified, preparations in progress

What's New in Microsoft 365

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

- ❖ [Enhancing Windows 11 Security, accessibility and Management for Enterprises](#)
- ❖ [Windows 365 Switch](#) :: Generally Available
- ❖ [Application Deployment in Windows 365 : Recommended Practices](#)
- ❖ [Windows IT Pro Blog](#)
- ❖ [Microsoft Entra \(Azure AD+\) Blog](#)
- ❖ [Microsoft OneDrive Blog](#)
- ❖ [Microsoft SharePoint Blog](#)

9 min read

Announcing Microsoft 365 Copilot general availability and Microsoft 365 Chat >

Today at an event in New York, we announced our vision for Microsoft Copilot—a digital companion for your whole life—that will create a single Copilot user experience across Bing, Edge, Microsoft 365, and Windows.

Day 1 with Windows 11: a quick tour

[Thomas Trombley](#) on Sep 27 2023 03:01 PM

Part of any successful upgrade is making sure people can be productive on day one. We're here to help!

How Tenant Restrictions v2 Can be Used to Prevent Data...

[annabarh](#) on Sep 13 2023 09:00 AM

Cross-tenant security protections to restrict access and prevent data exfiltration without inhibiting collaboration.

Windows 365 Switch is now generally available!

[Christiaan Brinkhoff](#) on Sep 26 2023 10:40 AM

Learn how to configure Windows 365 Switch for your Windows 11 endpoints in Intune.

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](#)



Purview compliance portal: Insider Risk Management - Sequence detections for obfuscation involving excluded events	Preview Available: September 2023 Rollout Start: February 2024
Purview compliance portal: Insider Risk Management – Cumulative exfiltration detection tuning	Preview Available: September 2023 Rollout Start: January 2024
Purview compliance portal: Insider Risk Management - Sequence detection starting with downloads from third-party sites	Preview Available: September 2023 Rollout Start: December 2023
Defender for Office 365: Security Threat Submission API	Preview Available: June 2022 Rollout Start: October 2023
Teams: Graph API for Teams Meetings Transcripts	Rollout Start: October 2023
> Microsoft Teams: Ratings and Reviews for apps in Teams store	Rollout Start: October 2023
> Microsoft Teams: Town Halls	Rollout Start: October 2023
> OneNote: Stream (on SharePoint) is now supported in OneNote	Rollout Start: October 2023
> Microsoft Purview compliance portal: Audit - Granular scoping with role-based access control (RBAC)	Rollout Start: October 2023
> Microsoft Purview compliance portal: Insider Risk Management – new sequence indicators	Rollout Start: October 2023
> Microsoft Purview Information Protection: Secure collaboration on labeled and encrypted documents with user-defined permissions	Preview Available: July 2023 Rollout Start: September 2023
> Outlook: Apps for Teams meetings available in Classic Outlook for Windows	Preview Available: July 2023 Rollout Start: September 2023
> Microsoft Purview compliance portal: Data Lifecycle Management - Cloud attachments support file versions shared as links (U.S. Government clouds)	Rollout Start: September 2023
> Microsoft Purview compliance portal: Data Lifecycle Management - Retention support for files shared as cloud attachments or links (U.S. Government clouds)	Rollout Start: September 2023
> Microsoft Purview Information Protection: Sensitivity label required to restrict permissions for labeling-enabled users	Preview Available: August 2023 Rollout Start: September 2023
> Microsoft Defender for Office 365: Tenant Allow/Block List - Support for URL top level domain block	Rollout Start: September 2023
> Microsoft Viva: Amplify Campaign Creation & Management	Rollout Start: September 2023
> Microsoft Viva: Amplify Author Publications & Distribute to Multiple Destinations	Rollout Start: September 2023
> Microsoft Viva: Amplify Reporting & Analytics	Rollout Start: September 2023

[News](#) [Microsoft 365 Enterprise](#) · Published September 26, 2023 · 7 min read

Microsoft Mesh enters preview in October, including a new Teams experience >

We are re-imagining the way employees come together with Microsoft Mesh, a new three-dimensional (3D) immersive experience and, we are excited to announce Mesh public preview availability in October.



Microsoft Teams Blog:



New for This Month:

- On-demand recording
- Shared Calling
- SIP Gateway is now compatible for more analog devices
- Teams Phone Mobile now available in Denmark and UK

Chat and Collaboration:

- Create up to 1,000 channels per team
- Teams Cross Cloud guest access
- Video Clip messages enhancements
- SOTI and VMware Workspace ONE support shared device mode on Android

Admin and Security:

- Configuration of hotline phones via the Teams Admin Center
- Configuration of virtual front desk via the Teams Admin Center



What's New in Microsoft Teams | September 2023

What's New in Microsoft Teams | September 2023

Steve Stein on Sep 29 2023 01:30 PM

Welcome to the September 2023 edition of What's New in Teams! This month we are bringing you 52 new features and devices...

A screenshot of the Microsoft Teams desktop application. It shows a video call in progress with multiple participants. To the left of the video call, there is a message board with several posts. One post from "Marketing Update" discusses a recent survey and encourages users to share their feedback. Another post from "Steve Stein" discusses the general availability of the new Microsoft Teams app. The interface includes standard Microsoft Teams navigation elements like file, home, and search.

Announcing general availability of the new Microsoft Teams...

Anupam Pattnaik on Oct 05 2023 08:00 AM

Today, we are excited to announce general availability of the new Microsoft Teams app for Windows and Mac including educ...

Rooms and Devices:

- Microsoft Teams Rooms, Display, and Panel solutions
- DTEN Mate Touch Console for Microsoft Teams Rooms on Android
- Aver CAM570 Camera for Microsoft Teams Rooms on Windows
- Yamaha ADECIA Wireless Solution for Microsoft Teams Rooms on Windows
- Poly TC10 certified for Microsoft Teams Panel on Android

Mobile

- Remove Teams call and meeting details from mobile device log

Teams Premium

- Intelligent Meeting Recap :: Generally Available

Platform

- Auto install approved apps

Collaborative Apps

- Workday
- Workday Peakon Employee Voice
- ServiceNow Virtual Agent
- Ambr
- Gloat app
- Lucidchart for Microsoft Teams
- VioletLMS
- GiveBack
- Limeade Well-Being
- Streamline

Microsoft Viva: & Viva Blog:

The employee experience platform for the new world of work



Microsoft Viva Connections



Microsoft Viva Engage



[Viva Amplify](#)



Microsoft Viva Insights



[Viva Pulse](#)



[Viva Glint](#)



Microsoft Viva Goals



Microsoft Viva Learning



Microsoft Viva Topics



Microsoft Viva Sales

Employee
Communication
& Communities

Workplace Analytics
& Feedback

Goal Setting &
Management

Learning and
Knowledge Management

Customer &
Sales Insights

Present your goals with ease with Export to PowerPoint....

Export to PowerPoint gives Viva Goals users the ability to export...

[What is People Science?](#)

Learn about what People Science is and how it can support yo...

Empowering and Enabling your Managers through Employee....

Watch the recording from the Empowering and Enabling your Ma...

Viva Insights Blog

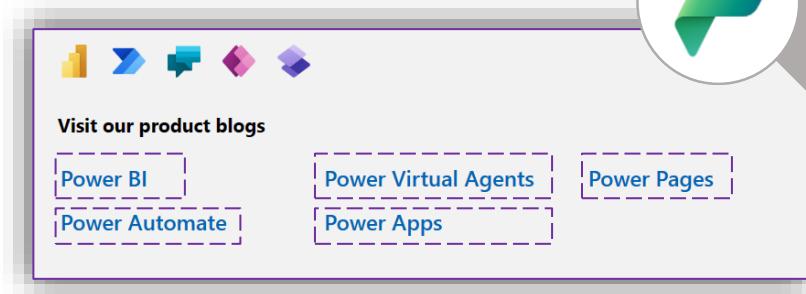
Combine insights with outside data and apps using data....

Egress via MGDC enables customers to build custom analytical scen...

Microsoft Power Platform :: Power Platform Blog



Microsoft Power Platform



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



Power BI
Business analytics



Power Apps
App development



Power Automate
Process automation



Power Virtual Agents
Intelligent virtual agents



Power Pages
External-facing websites

October 03, 2023 · 4 min read

**The AI revolution:
Supercharging low-code
with the Power Platform
community >**

Welcome to the second Microsoft Power Platform Conference! Since the first conference, there has been a seismic shift in how we build low-code solutions. With Copilot in Power Platform, we are now in the era of AI-assisted low-code development. As such, this year's conference is focused on helping the Power Platform community maximize their use.



**Data
connectors**



AI Builder



Dataverse

Oct 4 · 2 min read

**See new AI for Microsoft
Power Platform at our
tenth launch event >**

Join us for a first look at the latest innovations for Microsoft Power Platform and Dynamics 365 at the tenth Microsoft Business Applications Launch event on October 25. Hundreds of new features, plus tons of AI updates—it all adds up to one great opportunity to find out more about AI and what it can do for your organization.

Power Platform and Dynamics



Business Decision Makers

Customer stories

Dynamics 365 Field Service

• Sep 28 • 4 min read

Unlocking customer value with Microsoft Dynamics 365 Field Service through connected services >

In an age defined by single-click purchases, instant deliveries, and personalized experiences, customer expectations continue to rise, and frontline technicians are expected to meet these ever-changing demands. When a customer has a problem, they want it fixed fast and right the first time.



Business Decision Makers Events

Dynamics 365 Customer Service

• Oct 4 • 2 min read

Discover new AI for Microsoft Dynamics 365 at our tenth Business Applications Launch Event >

AI is ready for work—the question is: What will your business do with it? Join us at the Microsoft Business Applications Launch Event on October 25 and explore how to create an AI-powered business that helps people and teams be more productive, solve problems faster than ever, and focus more energy on building revenue.



Business Decision Makers

Analyst reports

Dynamics 365 Sales

• Sep 12 • 5 min read

Microsoft is named a Leader in 2023 Gartner® Magic Quadrant™ for Sales Force Automation Platforms >

Sellers are fundamental to any organization's success—and despite economic headwinds, business leaders are concerned about keeping the talent they have happy and productive at their jobs. Today, we're excited to share that Microsoft has been recognized again as a Leader within the 2023 Gartner Magic Quadrant for Sales Force Automation Platforms* for the thirteenth consecutive year. In this year's report, Microsoft is positioned highest in Completeness of Vision.

Roadmaps and Release plans:



Business Decision Makers

Analyst reports

Dynamics 365 Customer Insights

• Sep 25 • 6 min read

Microsoft is named a Leader in 2023 Gartner® Magic Quadrant™ for B2B Marketing Automation Platform >

In today's turbulent economic times, companies are facing critical business challenges such as customer acquisition, increasing customer loyalty, and maximizing lifetime value. Often, to save time, they follow a one-size-fits-all approach—resulting in impersonal marketing strategies with low customer engagement.

Developer and GitHub

GitHub Blog and Changelog

- [The GitHub Security Lab's journey to disclosing 500 CVEs in open-source projects](#)
- [Actions – Secure deployment rollouts to protected environments based on select tag patterns](#)
- [GitHub Actions: NODE_OPTIONS is now restricted from GITHUB_ENV](#)
- [MaxMind is now a GitHub secret scanning partner](#)
- [Secret scanning supports validation checks for select AWS, Google, Microsoft, and Slack tokens](#)
- [GitHub Actions: Apple silicon \(M1\) macOS runners are now available in public beta!](#)
- [Temporary private forks can now be deleted from repository advisories](#)
- [CodeQL code scanning deprecates ML-powered alerts](#)



Microsoft Developer Blogs:

- [Introducing the v1.0.0 Beta1 for the .NET Semantic Kernel SDK](#)
- [PSResourceGet:: Generally Available](#)
- [Building immersive experiences with Microsoft Mesh](#)
- [How Microsoft Empowers Developers with Disabilities: Celebrating NDEAM](#)
- [C# Dev Kit:: Generally Available](#)
- [New React TypeScript SPA Templates and More](#)
- [Arm64 Performance Improvements in .NET 8](#)
- [Announcing Microsoft Graph CLI v1.0.0 release candidate, now with beta support](#)

3 strategies to expand your threat model and secure your supply chain

How to get the security basics right at your organization.

Mike Hanley October 3, 2023

Introducing auto-triage rules for Dependabot

Make quick work of alerts with preset and custom rules.

Erin Havens & Eric Tooley September 14, 2023

Coordinated Disclosure: 1-Click RCE on GNOME (CVE-2023-43641)

CVE-2023-43641 is a vulnerability in libcue, which can lead to code execution by downloading a file on GNOME.



Kevin Backhouse October 9, 2023

Introducing the new, Apple silicon powered M1 macOS larger runner for GitHub Actions

Speed up your GitHub Actions jobs on macOS with all new, faster Apple silicon powered M1 macOS larger runner for arm64.



Stephen Glass October 2, 2023

A developer's guide to open source LLMs and generative AI

Open source generative AI projects are a great way to build new AI-powered features and apps.



Gwen Davis October 5, 2023

How GitHub uses GitHub Actions and Actions larger runners to build and test GitHub.com

Recently, we've been working to make our CI experience better by leveraging the newly released GitHub feature, Actions larger runners, to run our CI.

Max Wagner September 26, 2023

Prompting GitHub Copilot Chat to become your personal AI assistant for accessibility

GitHub Copilot Chat can help you learn about accessibility and improve the accessibility of your code. In this blog, we share a sample foundational prompt that instructs GitHub Copilot Chat to become your personal AI assistant for accessibility.



Ed Summers & Jesse Dugas October 9, 2023

Switching from Bitbucket Server and Bamboo to GitHub just got easier

Starting today, GitHub Enterprise Importer supports repository migrations from Bitbucket Server and Bitbucket Data Center, and GitHub Actions Importer offers CI/CD migrations from Bitbucket and Bamboo.



Melody Mileski & Tim Rogers September 18, 2023

Introducing secret scanning validity checks for major cloud services

Secret scanning now performs validity checks for select AWS, Microsoft, Google, and Slack tokens.

Zain Malik & Courtney Claessens October 4, 2023



Office Developer Blogs and Microsoft 365 Dev Center



Build immersive experiences with Microsoft Mesh



Microsoft Mesh

Building immersive experiences with Microsoft Mesh

October 5, 2023

Tyler Adams

Microsoft Mesh is a new 3D immersive experience for the workplace, helping virtual meetings and events feel more like face-to-face connections.



Find what you need with Microsoft Graph connectors



Microsoft Graph

Find what you need with Microsoft Graph connectors

October 3, 2023

Waldek Mastykarz, Majesty Uwagerikpe

Learn about Microsoft Graph connectors, how to build them, and how to ensure seamless integration of your data into Microsoft 365 Copilot.



September 2023
Top five AppSource validation errors for Office Add-ins submissions



September 2023

Top 5 AppSource validation errors for Office Add-ins submissions – September 2023

September 29, 2023

Elizabeth Samuel

AppSource validation ensures your Office Add-in submission follows Microsoft's quality standards. This blog post covers the five current most common validation pitfalls.



Now available
Microsoft 365 Developer Proxy v0.12



Microsoft 365 Developer Proxy v0.12 with new mocking capabilities

September 27, 2023

Waldek Mastykarz, Garry Trinder

Microsoft 365 Developer Proxy v0.12 features new mocking capabilities to help develop and test your applications.



September 2023
Microsoft 365 Developer Program updates



Microsoft 365 Developer Program: September 2023 updates

September 26, 2023

Kelly Bowen-McCombs (She/Her)

Here, we highlight the recent updates to the Microsoft 365 Developer Program and share ideas for new features and benefits.

[Global Developer Updates and Bootcamps :: M365 Developer Blog :: Office Developer :: DevBlog](#)

- [Top 5 AppSource validation errors for Office Add-ins submissions – September 2023](#)
- [Teams Conversation Bot](#)
- [Microsoft 365 Developer Proxy v0.12 with new mocking capabilities](#)
- [Staggered permission sample](#)
- [Teams File Upload Bot](#)
- [Deploying the Microsoft Teams UI templates sample app](#)
- [New Office Add-ins entry point available online](#)
- [Announcing Microsoft Graph CLI v1.0.0 release candidate, now with beta support](#)
- [Teams Personal Tab SSO Authentication Sample Node.js](#)
- [Interact with Calendar, Mail, Profile, geolocation from Personal Tabs App](#)



Develop apps with Microsoft Graph Toolkit

[Learn more >](#)

[Microsoft Graph PowerShell v1 to v2 migration toolkit](#)

Create a spreadsheet from your web page, populate it with data, and embed you...

[View code sample >](#)

New trends with Microsoft Technology



Updates from Microsoft Industry Blogs



Healthcare • Oct 10 • 5 min read

Unlock data value with healthcare data solutions in Microsoft Fabric >

Today, we are announcing the preview of Microsoft Cloud for Healthcare data solutions in Microsoft Fabric. These trusted and industry-tailored offerings unlock the power of healthcare data by bringing together disparate data sources into a single unified view that empowers you to glean actionable insights from your data.



Energy and resources • Sep 28 • 6 min read

The era of AI: Transformative AI solutions powering the energy and resources industry >

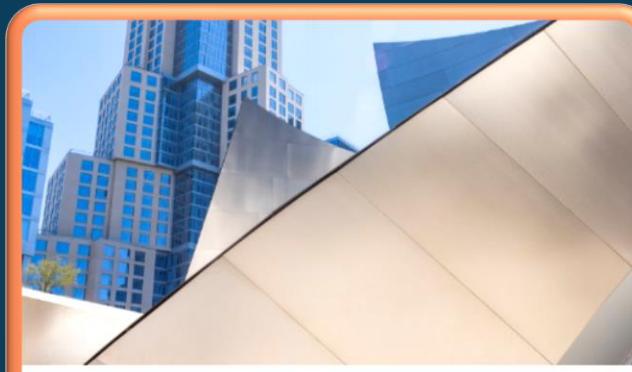
Microsoft partners with organizations across the energy and resources sector on solutions to drive workforce transformation, improve operational efficiencies, accelerate net-zero, and increase energy innovation and growth opportunities



Healthcare • Sep 25 • 5 min read

HLTH23: Learn how Microsoft Cloud for Healthcare uses data and AI to transform your organization >

At HLTH23, the global healthcare event that will take place in Las Vegas, NV from October 8 to 11, 2023, we will join leading experts and innovators from all sectors of healthcare to explore the latest developments and breakthroughs in their field.



Telecommunications • Sep 20 • 4 min read

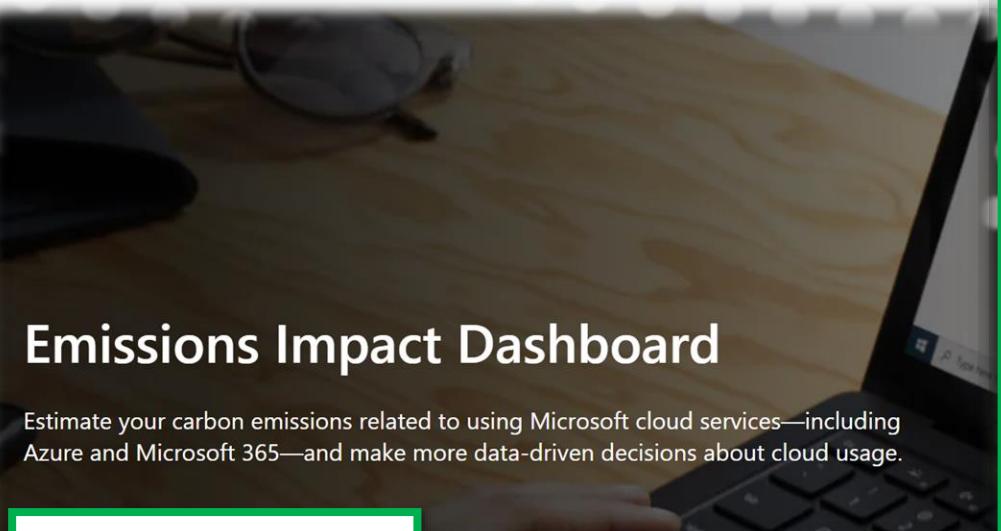
Microsoft at MWC Las Vegas 2023: Empowering telecom operators and enterprises with the power of AI >

Microsoft attended MWC Las Vegas 2023, the largest telecommunications event in North America, to engage with customers, partners, and thought leaders on the transformations that are shaping the future of the telecommunications industry.



Microsoft Cloud for Sustainability

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



Emissions Impact Dashboard

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

Emissions Impact Dashboard

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

[Explore the dashboard >](#)

GHG emissions reporting training

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

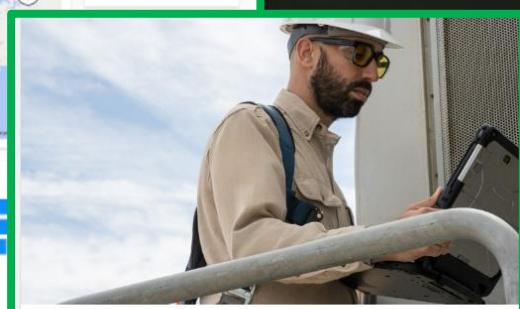
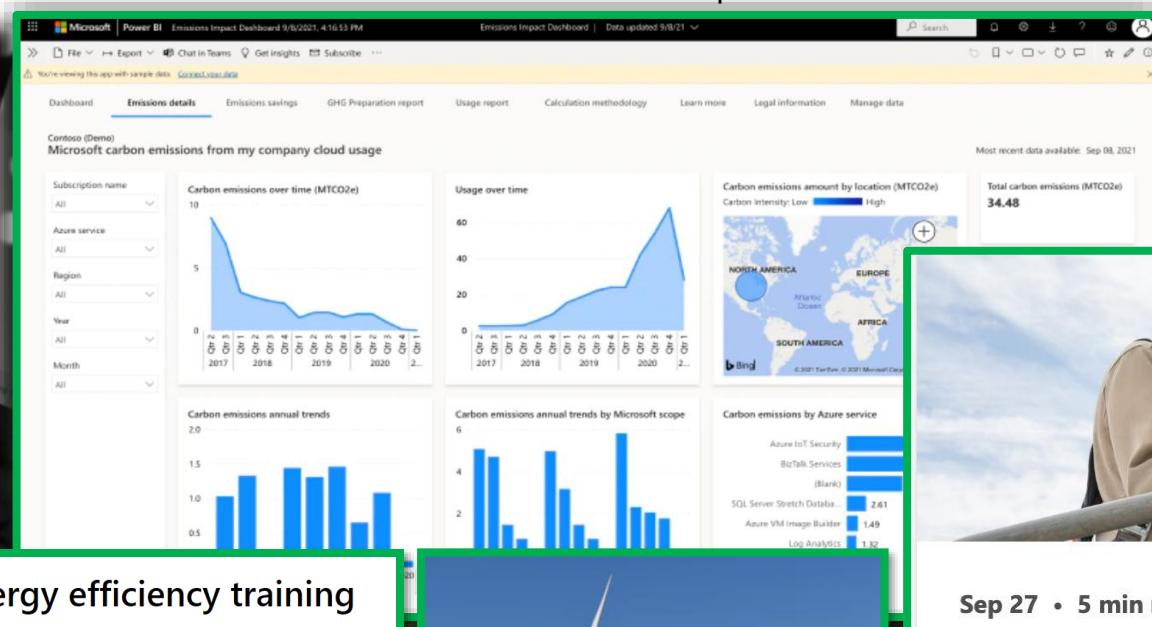
[Get started >](#)

Cloud carbon tracking for your path to net zero

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

[App for Azure >](#)

[App for Microsoft 365 >](#)



Sep 27 • 5 min read

Moving ahead with powerful waste data features—and new Tech Talks >



Renewable energy procurement training

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

[Get started >](#)

In this blog, we'll share details about this month's preview updates to Microsoft Cloud for Sustainability, enabling more powerful waste data management capabilities. We'll also introduce Tech Talks, a new discussion series aimed at helping organizations implement and drive value from Microsoft Cloud for Sustainability faster.

Microsoft Research Blog



Accelerate Foundation Models Research: Supporting a global academic research ecosystem for AI >

October 3, 2023

A diverse research ecosystem is essential to realizing the promise of AI. Accelerate Foundation Models Research aims to expand access to powerful models, engaging academics outside of computer science to pursue a broad range of important opportunities.

ICCV23
PARIS

AutoGen: Enabling next-generation large language model applications >

September 25, 2023

Microsoft researchers are introducing AutoGen, a framework for simplifying the orchestration, optimization, and automation of workflows for large language model (LLM) applications—potentially transforming and extending what LLMs can do.



HoloAssist: A multimodal dataset for next-gen AI copilots for the physical world >

October 5, 2023 | [Xin Wang](#) and [Neel Joshi](#)

HoloAssist is a new multimodal dataset consisting of 166 hours of interactive task executions with 222 participants. Discover how it offers invaluable data to advance the capabilities of next-gen AI copilots for real-world tasks.

ICCV23
PARIS

Efficient and hardware-friendly neural architecture search with SpaceEvo >

October 6, 2023

A persistent challenge in deep learning is optimizing neural network models for diverse hardware configurations, balancing performance and low latency. Learn how SpaceEvo automates hardware-aware neural architecture search to fine-tune DNN models for swift execution on diverse devices.

Neural Graphical Models

ECSQARU 2023



Neural Graphical Models >

September 20, 2023 | [Harsh Shrivastava](#) and [Urszula Chajewska](#)

This research paper was presented at the 17th European Conference on Symbolic and Quantitative Approaches to Reasoning with Uncertainty (opens in new tab), a premier forum for advances in the theory and practice of reasoning under uncertainty, probabilistic...

Microsoft Quantum Blog :: Innovation News



Azure Quantum learning resources enable getting ready for a quantum supercomputer >

September 18, 2023 • 5 min read

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

As an industry, we are all collectively committed to bringing scaled quantum computing to fruition. However, it can get hard to separate the signal from the noise. To help, we have offered quantum computing implementation levels to the industry to help frame the roadmap towards achieving this shared goal. [Read more](#)

AI-assisted learning

Quantum computing and programming

Tutorials, theory, and exercises

+ Technical docs

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

+ Quantum katas

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

[Try Copilot in Azure Quantum](#)

The path to a Quantum Supercomputer

For scientists to solve the hardest, most complex chemistry and materials science problems like reversing climate change and addressing food insecurity, a Quantum Supercomputer will be required. Yet, today, every known quantum machine on the planet is blocked from achieving the necessary reliable quantum operations performance of one million reliable quantum operations per second (rQOPS). After a major physics breakthrough, Microsoft is on the path to engineer a brand-new type of qubit and has identified the key hardware milestones for unlocking a scaled Quantum Supercomputer.

- Create & control Majorana**
- Hardware protected qubit**
- High quality hardware protected qubits**
- Multi-qubit system**
- Resilient quantum system**
- Quantum supercomputer**

Azure



Azure Updates

Azure Blog



[Azure Operator Nexus](#), [Hybrid + Multicloud](#), [Thought leadership](#) Published September 26, 2023 • 11 min read

AI for telecommunications with Azure for Operators >

By [Yousef Khalidi](#) Corporate Vice President, Azure for Operators

Recent advancements in generative AI are transforming how we interact with technology, as we embark on a new era of intelligence, working and co-reasoning with AI. This new era of AI and transformation brings enormous potential to impact every sector of the economy.

[AI + Machine Learning](#), [Azure OpenAI Service](#), [Best practices](#), [Partners](#) Published October 10, 2023 • 6 min read

Get Inspired: Five Microsoft partners using generative AI to enhance productivity >

By [Andy Beatman](#) Senior Product Marketing Manager, Azure AI

Generative AI has become a critical tool for businesses seeking to streamline tasks and enhance productivity. Today, generative AI can generate everything from written content and music to product designs and programming code, paving the way for unprecedented levels of automation.

[Announcements](#), [Azure Security](#), [Security](#) Published October 3, 2023 • 4 min read

Microsoft Azure achieves HITRUST CSF v11 certification >

By [Gavin Squire](#) Principal Technical Program Manager, Azure Core Trusted Platform

Azure is dedicated to helping healthcare organizations accelerate their digital transformation while ensuring security and compliance in the cloud. Azure provides a secure and compliant cloud platform that enables healthcare organizations to build innovative solutions that improve patient care, operational efficiency, and business agility.

[AI + Machine Learning](#), [Azure AI](#), [Thought leadership](#) Published September 28, 2023 • 7 min read

What's new in Data & AI: Expanding choices for generative AI app builders >

By [Jessica Hawk](#) Corporate Vice President Data, AI, and Digital Application Product Marketing

We have a lot of exciting news this month, much of it focused on providing developers and data science teams with expanded choice in generative AI models and greater flexibility to customize their applications.

[Azure Functions](#), [Azure IoT Edge](#), [Azure IoT Hub](#), [Azure Kubernetes Service \(AKS\)](#), [Azure Machine Learning](#), [Customer stories](#), [Internet of Things](#), [Thought leadership](#) Published September 14, 2023 • 4 min read

Updates & Announcements

- [ExpressRoute Traffic Collector](#) :: Generally Available
- [Azure Chaos Studio has Query-Based Dynamic Targets](#) :: Public Preview
- [Bing Speech will be retiring on 3-November-2023](#) :: Notice
- [Backup and Restore over Azure Virtual Network App Service](#) :: Preview
- [Upgrade your existing Azure Gen2 VMs to Trusted Launch](#) :: Generally Available
- [Multi-User Authorization for Backup vaults](#) :: Generally Available
- [Azure Data Explorer Add-On for Splunk](#) :: Public Preview
- [Custom partitioning in Azure Synapse Link for Azure Cosmos DB](#) :: Generally Available
- [Domain fronting update on Azure Front Door and Azure CDN](#) :: Generally Available

Real-world sustainability solutions with Azure IoT >

By [Adam Bogobowicz](#) Director of IoT and Digital Operations Marketing

With technologies like open industrial IoT, advanced analytics, and AI, Microsoft Azure ensures manufacturing organizations are well-equipped to understand, mitigate, and validate their environmental impacts.

[AI + Machine Learning](#), [Azure Active Directory Domain Services](#), [Industry trends](#), [Partners](#) Published September 20, 2023 • 4 min read

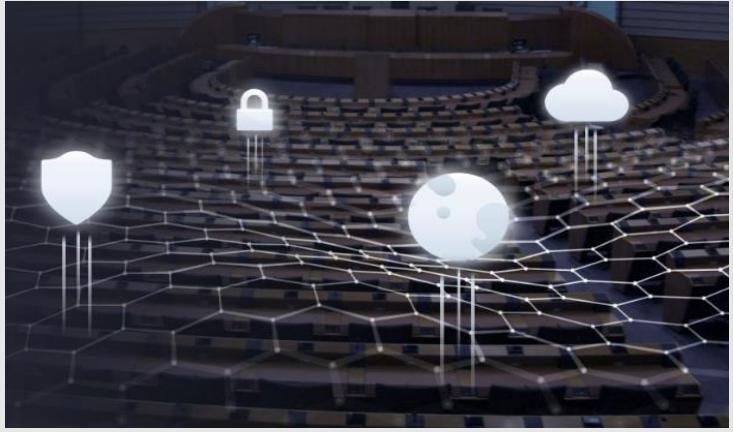
Microsoft and Adobe partner to deliver cost savings and business benefits >

By [Jeff Erbstein](#) General Manager, Adobe x Microsoft Partnership

The Total Economic Impact™ Of Adobe SaaS Solutions with Microsoft Cloud report provides a deep analysis of the key challenges organizations look to address when deploying Adobe SaaS solutions on Microsoft Cloud. Read the full study to understand why.



Azure Services Directory

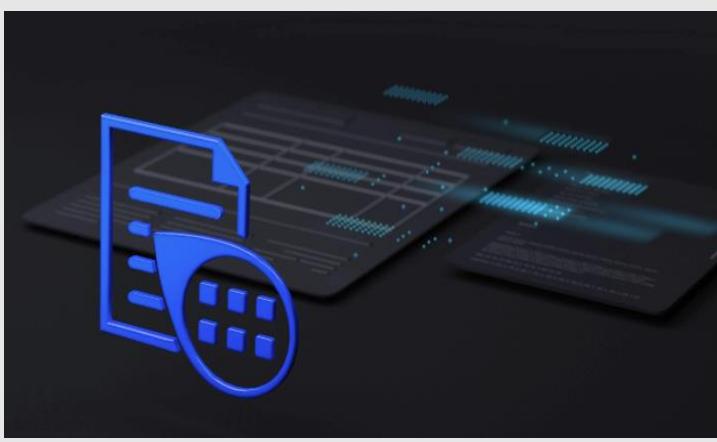


Cloud for Sovereignty

Unlocking Global Government Innovation

Cloud for Sovereignty : Preview

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

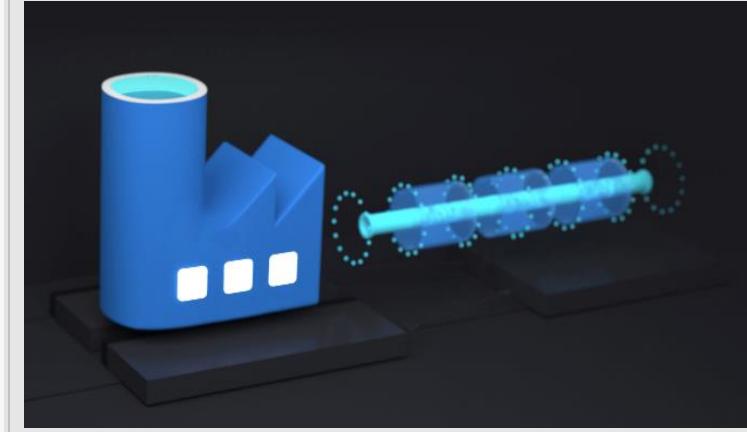


Azure AI Document Intelligence

Accelerate Information Extraction from documents

Azure AI Document Intelligence

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



Azure Data Factory

Simplify Hybrid Data Integration at Enterprise Scale

Azure Data Factory: Updates

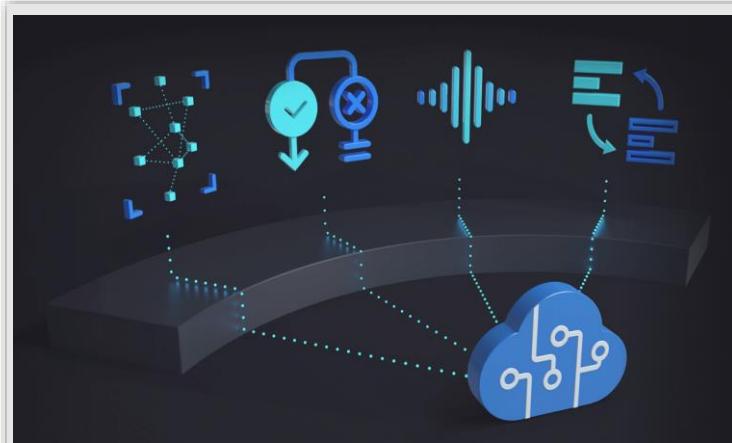
- ❖ Fully managed, serverless data integration service
- ❖ [Accelerate data transformation with code-free data flows](#): data integration and transformation layer works across ETL
- ❖ [Rehost and extend SSIS in a few clicks](#): Azure Data Factory can help organizations looking to modernize SSIS.
-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

Azure Services Directory



Azure AI

Drive business results and improve customer experiences with AI solutions



Azure Cognitive Services

Add cognitive capabilities to apps with APIs and AI services



Azure OpenAI Service

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

Azure AI

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

Azure Cognitive Services

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

Azure OpenAI Service : Updates

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

Showcase Blog



Microsoft Showcase Series



Oct 9, 2023 | India Rodgers

[Scaling contract reviews at Microsoft with Microsoft Azure AI Services](#)

At Microsoft, our Finance team is leveraging technology to simplify workstream prioritization and automate qualitative assessments. The Revenue team within our Finance division is composed of accounting professionals with product, industry, and region-specific expertise. These professionals review and document accounting conclusions on the company's major contracts with its customers, an activity that involves coordination across...

Sep 19, 2023 | Lukas Velush

[Transforming data governance at Microsoft with Microsoft Purview and Microsoft Fabric](#)

Data is an invaluable asset for all businesses. Over recent years, the exponential growth of data collection and ingestion has forced most organizations to rethink their strategies for managing data. Increasing compliance requirements and ever-changing technology prevent anyone from simply leaving their enterprise data in its current state. We're accelerating our digital transformation with an...

Oct 3, 2023 | Inside Track staff

[Using Microsoft Teams and ServiceNow to enhance end-user support at Microsoft](#)

Our Microsoft Digital Employee Experience team is improving our support experience by partnering with ServiceNow to incorporate modern support-agent functionality into our environment by using ServiceNow Virtual Agent and Microsoft Teams. As a result, our...

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.

Sep 26, 2023 | Inside Track staff

[Implementing strong user authentication with Windows Hello for Business](#)

Deploying Windows Hello for Business internally here at Microsoft has significantly increased our security when our employees and vendors access our corporate resources. This feature offers a streamlined user sign-in experience—it replaces passwords with strong two-factor authentication by combining an enrolled device with a PIN or biometric user input for sign in. Windows Hello was...

Sep 26, 2023 | Lukas Velush

[Culture, the cloud, and security: learning from Microsoft's digital transformation](#)

For a transcript, please view the video on YouTube: <https://www.youtube.com/watch?v=ifym9DmqatA>, select the "More actions" button (three dots icon) below the video, and then select "Show transcript." A lot has changed in Microsoft Digital Employee Experience—our internal IT organization—since CEO Satya Nadella's 2017 memo calling for the company to digitally transform. How do you get the...

Microsoft Partner News



↓ | 218.8 KB

Responsible AI Partner Program

1-page description of program.

2023-10-09 Business Leadership



New annual revenue requirement for CSP indirect resellers

Learn more about the minimum indirect reseller revenue requirement.

2023-10-05



CSP legacy commercial subscription migrations

Microsoft-led migrations begin in 2024 on customers' renewal dates.

2023-09-28



Changes to Microsoft 365 and Teams licensing in Europe

Changes for Europe will take effect on October 1, 2023.

2023-09-27 Stay Up to Date



CloudAscent helps you build customers for life with data-driven insights

CloudAscent: discover new opportunities with existing customers.

2023-10-03 Engage Customers



Sustainability Partner Industry Sales Kits

Find Sustainability To-Partner Industry Sales Kits.

2023-09-19 Build Your Practice



ESI Training Journey

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

Microsoft Azure Training Journey

ENTERPRISE SKILLS INITIATIVE

Find the most recent version at aka.ms/ESIAzureTrainingJourney
Last updated March 2023

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<https://aka.ms/ESIAzureTrainingJourney>

Microsoft Security, Compliance, and Identity Training Journey

ENTERPRISE SKILLS INITIATIVE

Find the most recent version at aka.ms/ESISecurityTrainingJourney
Last updated March 2023

© Microsoft Corporation. All rights reserved.

<https://aka.ms/ESISecurityTrainingJourney>

March 2023

Azure AI Engineer Learning Pathway

www.aka.ms/pathways

Getting started

Additional Study

Role Based Certification
Azure AI Engineer

AI-102: Designing and Implementing a Microsoft Azure AI Solution

Skills Measured (AI-102)

- Plan and manage an Azure AI solution (25–30%)
- Implement image and video processing solutions (15–20%)
- Implement natural language processing solutions (25–30%)
- Implement knowledge mining solutions (5–10%)
- Implement conversational AI solutions (15–20%)

Microsoft Learn:

- Prepare for AI engineering
- Provision and manage Azure Cognitive Services
- Process and translate text with Azure Cognitive Services
- Process and Translate Speech with Azure Cognitive Speech Services
- Create a Language Understanding solution
- Build a question answering solution
- Build custom text analytics solutions
- Create conversational AI solutions
- Create computer vision solutions with Azure Cognitive Services
- Extract text from images and documents
- Implement knowledge mining with Azure Cognitive Search

Exam Study Guide **Course Page** **Practice Test** **Exam Page**

Azure Connected Learning Experience

Microsoft Azure Connected Learning Experience (CLX) is an experiential training program that sets a trajectory for aspiring learners and working professionals to be Azure experts. The CLX program offers a personalized journey that aims to optimize learning experience while maximizing return on time invested.

Click Here

Microsoft Virtual Training Days

Build the technical skills you need with free Virtual Training Days.

Click Here

Microsoft Learning and Training :: Learning Blog



Browse all learning paths and modules

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

A grid of six learning cards arranged in two rows of three. Each card has rounded corners and a dark background.

- LEARNING PATH**
Microsoft Security, Compliance, and Identity Fundamentals: Describe the concepts of security, compliance, and identity management. (43 min)
Azure • Business User • Beginner
Icon: Computer monitor with a lock.
- MODULE**
Explore Microsoft Teams
Microsoft 365 • Administrator • Intermediate
(49 min) ★★★★★ 4.8 (4.7K)
Icon: Microsoft Teams logo.
- LEARNING PATH**
PL-900: Microsoft Power Platform Fundamentals
Dynamics 365 • Business User • Beginner
(7 hr 5 min)
Icon: Microsoft Power Platform logo.

MODULE
Introduction to Microsoft Power Platform
Microsoft Power Platform • Business Analyst • Beginner
(36 min) ★★★★★ 4.7 (24K)
Icon: Microsoft Power Platform logo.

MODULE
Get started with AI on Azure
Azure • AI Engineer • Beginner
(34 min) ★★★★★ 4.8 (46K)
Icon: Azure AI logo.

MODULE
Introduction to Power BI
Microsoft Power Platform • Business Analyst • Beginner
(46 min) ★★★★★ 4.8 (13K)
Icon: Microsoft Power BI logo.

A 3D perspective view of several learning modules represented as floating cards. The cards have rounded corners and a dark background, similar to the ones above.

- MODULE**
Write your first C# code
.NET • Developer • Beginner
(17 min) ★★★★★ 4.9 (20K)
Icon: C# logo.
- MODULE**
Get started with AI on Azure
Azure • AI Engineer • Beginner
(34 min) ★★★★★ 4.8 (46K)
Icon: Azure AI logo.
- MODULE**
Introduction to Power BI
Microsoft Power Platform • Business Analyst • Beginner
(46 min) ★★★★★ 4.8 (13K)
Icon: Microsoft Power BI logo.

Microsoft Virtual Training Days

Microsoft Events and Training: Updates



Microsoft Virtual Training Days

Events Catalog

Experience AI transformation action at Microsoft Ignite

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

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

[Register now](#)

TRAINING

Discover your path

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

[Browse the full catalog](#)

[Customize my path](#)

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.

Security

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

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

Date & Time: Wed 08 Nov 2023, 12:00 PM - Thu 09 Nov 2023, 12:00 PM

Timezone: EST

Country: United States

Skill Level: Beginner

[Register >](#)

Azure

Microsoft Azure Virtual Training Day: Azure for Developers

Learn how to deploy a simple web app and explore the different hosting options available on Azure.

Date & Time: Wed 08 Nov 2023, 12:00 PM - Thu 09 Nov 2023, 12:00 PM

Timezone: EST

Country: Canada

Skill Level: Intermediate

[Register >](#)

Power Platform

Microsoft Power Platform Virtual Training Day: Fundamentals

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

Date & Time: Tue 31 Oct 2023, 01:00 PM - 05:00 PM

Timezone: EDT

Country: Canada

Skill Level: Beginner

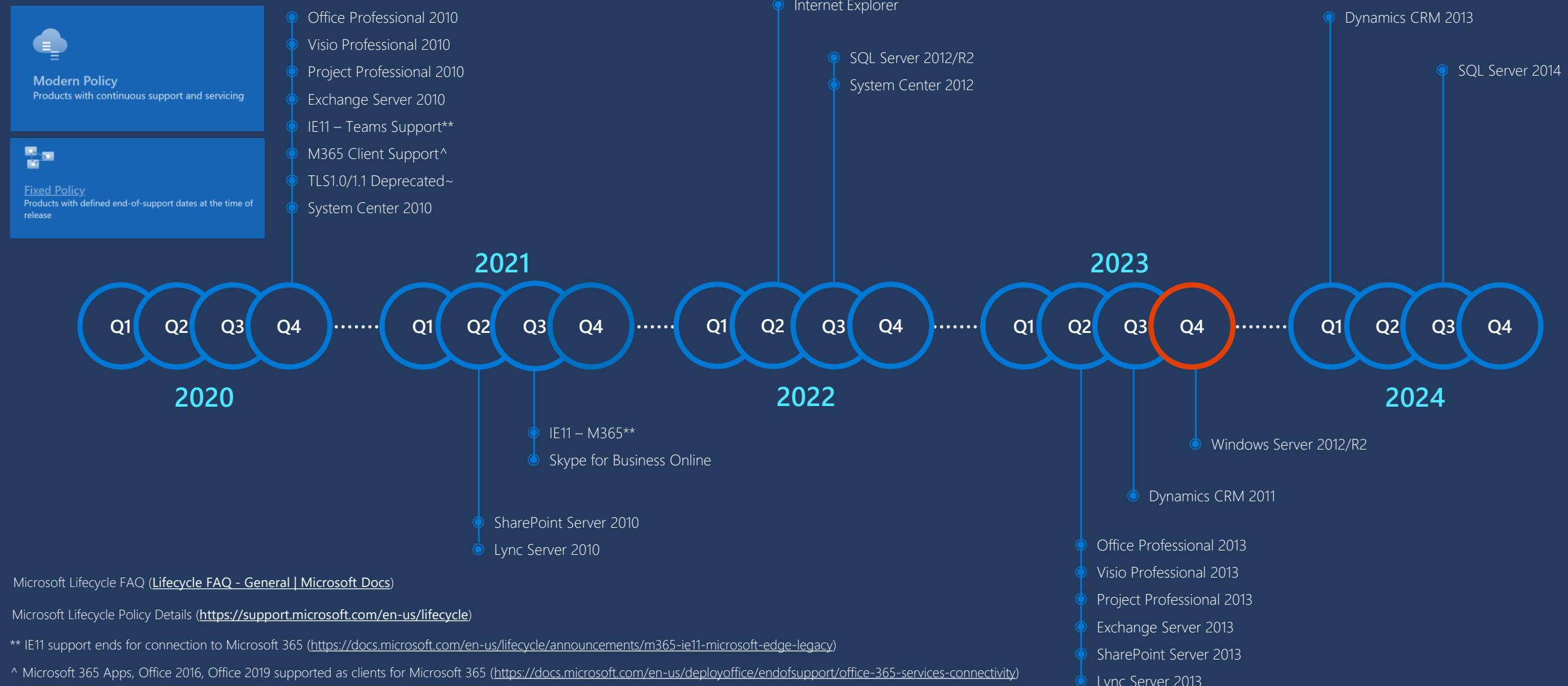
[Register >](#)

Product Lifecycles





End of Service Roadmap to 2024



Microsoft Product Lifecycle: Modern Policy Products that will Retire



Products under Modern Policy that will Retire in 2023

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

Products under Modern Policy that will Retire in 2024

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

Announcements

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

Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

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

[See more >](#)

Microsoft Product Lifecycle: Azure Changes



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

Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



Products Release End of Servicing for 2023

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

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

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



Products Reaching End of Support for 2023

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

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2024



Products Reaching End of Support for 2024

Products Moving to End of Support (Modern Policy)	End of Servicing 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	July 9, 2024
Visual Studio 2022 , Version 17.4 (LTSC channel)	July 11, 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: Products moving to Extended Support



Products Moving to Extended Support for 2023

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

Products Moving to Extended Support for 2024

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



Acquisitions and Announcements

Microsoft Acquisitions - 2023



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

Microsoft Acquisitions - 2022



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

Microsoft Acquisitions - 2021



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

Microsoft Acquisitions - 2021



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



Microsoft Acquisitions - 2020

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

Microsoft Acquisitions - 2019



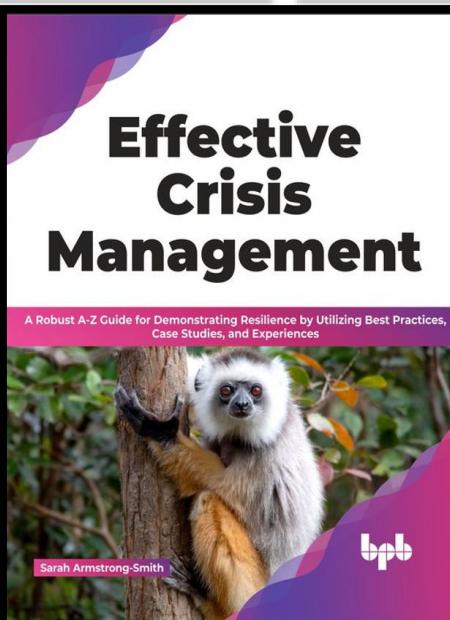
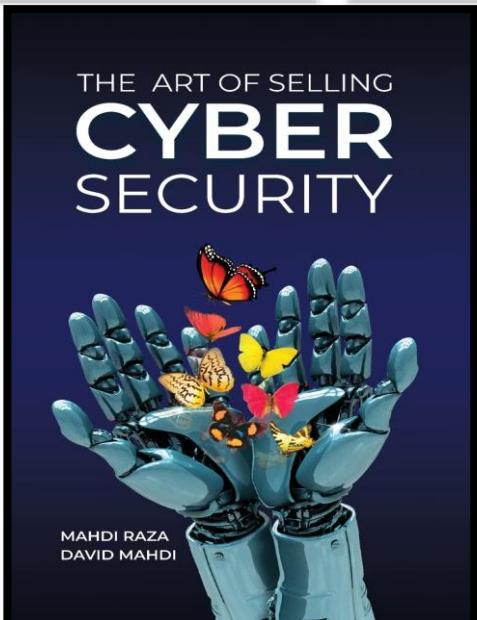
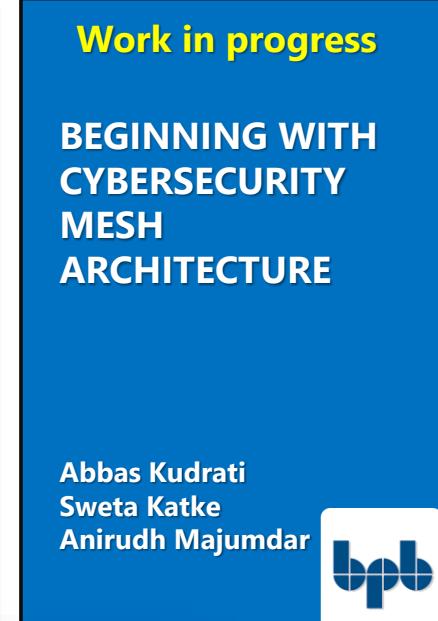
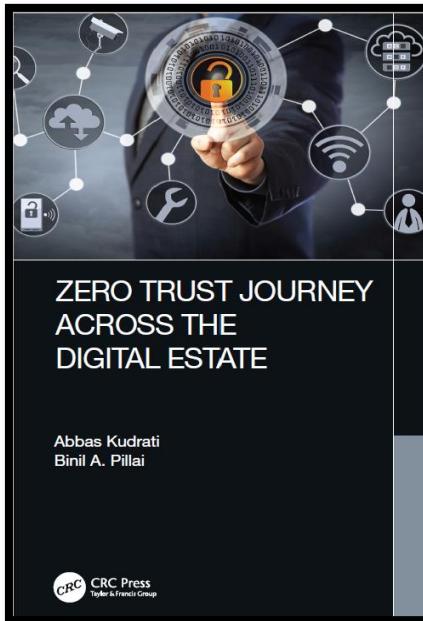
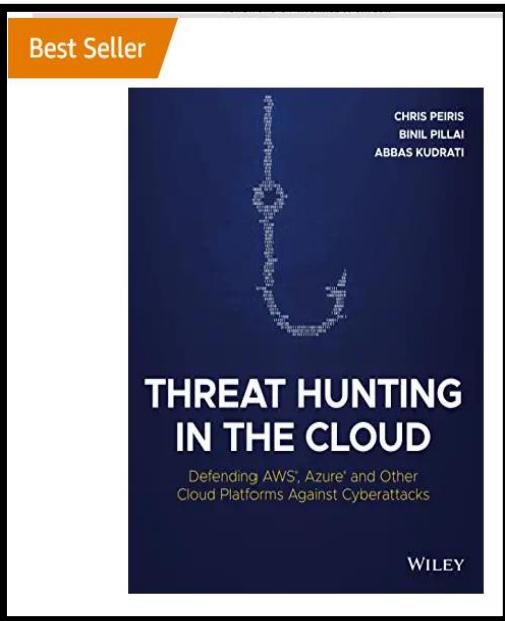
Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately presenting entire IT environments within a single day , providing enterprises with the confidence they need to have visibility and control of their environments regardless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



Microsoft Acquisitions – 2019 & late 2018

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

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