



Microsoft

Monthly Technical Briefing

AUGUST 2023

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



- [Microsoft Inspire 2023](#)
- [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](#)



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



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



Join us at Microsoft Inspire

Elevate your business by joining us for our largest partner event of the year July 18–19, 2023 PT.

[Register now](#)

Session catalog

Discover sessions

Browse our catalog, refine your results with filters, or use the search bar to find sessions specific to your interests. Shortly before the live event, sign in and plan your full schedule by adding impactful presentations and discussions that will help you grow your business.

Microsoft Inspire

July 18–19, 2023

Partner of the Year Awards

Celebrate with us as we honor our winning partners and highlight their achievements in delivering impactful solutions and services to customers around the globe.

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black hat® USA 2023

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AUGUST 5-10, 2023

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+ VIRTUAL[ATTEND ▾](#)[TRAININGS ▾](#)[BRIEFINGS ▾](#)[ARSENAL ▾](#)[FEATURES ▾](#)[SCHEDULE ▾](#)[BUSINESS HALL ▾](#)[SPONSORS ▾](#)[PROPOSALS ▾](#)

All times are Pacific Time (GMT/UTC -7h)

WELCOME TO BLACK HAT USA 2023

Now in its 26th year, Black Hat USA returns to the Mandalay Bay Convention Center in Las Vegas with a 6-day program. The event will open with four days of specialized cybersecurity Trainings (August 5–10), with courses for all skill levels. The two-day main conference (August 9–10) will feature more than 100 selected Briefings, dozens of open-source tool demos in Arsenal, a robust Business Hall, networking and social events, and much more. This year Black Hat is launching '[Certified Pentester](#)' program – a full day practical exam, covering pentesting topics. See the Conference Highlights below for more details.



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



Microsoft Ignite

Join us at the next Microsoft Ignite event November 15–16, 2023, to catch up on the latest industry innovations. Sign up to be one of the first to know when registration launches.

[Get notified >](#)

Explore key moments

Check out what you may have missed and discover new highlights from Satya Nadella's keynote.

[Session catalog](#)

Microsoft Learn

Spark possibility

Build skills that open doors. Find out all that you can do with interactive training and certifications from Microsoft Learn.



Dive into your next event

Check out the full lineup of upcoming event experiences to help you grow your skillset and community.

Updates of Security and Compliance



Monitoring Global Threats: Microsoft :: Threat Intelligence Blog



Global threat activity

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

Microsoft Security Response Center

Select a region ▾

Most affected industries

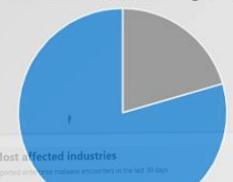
Reported enterprise malware encounters in the last 30 days

Education

Show all industries >

Devices with encounters:

6,802,438 (79.48%)



[Research](#) [Threat intelligence](#) [Social engineering / phishing](#)

Aug 2 · 6 min read

Midnight Blizzard conducts targeted social engineering over Microsoft Teams >

Microsoft Threat Intelligence has identified highly targeted social engineering attacks using credential theft phishing lures sent as Microsoft Teams chats by the threat actor that Microsoft tracks as Midnight Blizzard (previously tracked as NOBELIUM)....

Education ▾

Top threats:

[Adware:Win32/DealPly!MSR](#)

[Best practices](#) [Data protection](#) [Microsoft Purview](#) · Aug 8 · 6 min read

Microsoft Purview data security mitigations for BazaCall and other human-operated data exfiltration attacks >

Microsoft Defender is our toolset for prevention and mitigation of data exfiltration and ransomware attacks. Microsoft Purview data security offers important mitigations as well and should be used as part of a defense-in-depth strategy.

Worldwide

76,100,205 devices with encounters

Top threats:

[HackTool:Win32/AutoKMS](#)
[Trojan:Win32/Wacatac.H!ml](#)
[HackTool:Win64/AutoKMS](#)
[HackTool:Win32/Keygen](#)
[Trojan:Win32/Wacatac.B!ml](#)

[Research](#) [Threat intelligence](#)

[Attacker techniques, tools, and infrastructure](#)
Jul 25 · 13 min read

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

[Attacker techniques, tools, and infrastructure](#)

Jul 25 · 13 min read

Cryptojacking: Understanding and defending against cloud compute resource abuse >

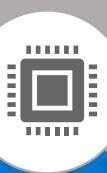
Cloud cryptojacking, a type of cyberattack that uses computing power to mine cryptocurrency, could result in financial loss to targeted organizations due to the compute fees that can be incurred from the abuse....

[Research](#) [Threat intelligence](#)

[Attacker techniques, tools, and infrastructure](#)
Jul 14 · 10 min read

Analysis of Storm-0558 techniques for unauthorized email access >

Analysis of the techniques used by the threat actor tracked as Storm-0558 for obtaining unauthorized access to email data, tools, and unique infrastructure characteristics. ...



[News](#) [Security management](#) [Microsoft Security Experts](#) · Aug 3 · 3 min read

Cyber Signals: Sporting events and venues draw cyberthreats at increasing rates >

Today we released the fifth edition of Cyber Signals spotlighting threats to large sporting events, based on our learnings and telemetry from delivering cybersecurity support to critical infrastructure facilities during the State of Qatar's hosting of the FIFA World Cup 2022™.

[News](#) [SIEM and XDR](#) [Microsoft Security Experts](#) · Jul 10 · 5 min read

Meet unprecedented security challenges by leveraging MXDR services >

Microsoft is excited to announce the general availability of Microsoft Defender Experts for XDR, a first-party MXDR offering that gives security teams air cover with end-to-end protection and expertise....

Microsoft compliance offerings

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

[News](#) [Data protection](#) [Microsoft Purview Audit](#) · Jul 19 · 3 min read

Expanding cloud logging to give customers deeper security visibility >

Today we are expanding Microsoft's cloud logging accessibility and flexibility even further. Over the coming months, we will include access to wider cloud security logs for our worldwide customers at no additional cost.

| CLOUD PROVIDER ASSESSMENTS | REGULATORY GROUPS |
|--|--|
| CyberGRX | SOC 1 |
| ISO 20000-1:2011 | SOC 2 |
| ISO 22301 | SOC 3 |
| ISO 27001 | WCAG |
| | |
| Industry | Industry |
| 23 NYCCR Part 500 | FERPA |
| AFM + DNB (Netherlands) | FFIEC (US) |
| APRA (Australia) | FINMA (Switzerland) |
| AMF and ACPR (France) | FINRA 4511 (US) |
| CDSA | FISC (Japan) |
| CFTC 1.31 (US) | FSA (Denmark) |
| DPP (UK) | GLBA (US) |
| | |
| | MPA |
| CS (Germany) | NBB + FSMA (Belgium) |
| Canadian Privacy Laws | NEN-7510 (Netherlands) |
| CCPA (US-California) | NERC |
| Cyber Essentials Plus (UK) | OSFI (Canada) |
| IRAP (Australia) | |

[Best practices](#) [Security operations](#) · Jul 25 · 6 min read

How to build stronger security teams >

Jayson Street of Truesec talks about security awareness training and building a foundation of cybersecurity.

| | |
|--|----------------------------------|
| CS (Germany) | ENISA IAF (EU) |
| Canadian Privacy Laws | ENS (Spain) |
| CCPA (US-California) | EU Model Clauses |
| Cyber Essentials Plus (UK) | GB 18030 (China) |
| IRAP (Australia) | GDPR (EU) |
| | G-Cloud (UK) |

[News](#) [Cloud security](#) [Microsoft Defender](#) · Aug 9 · 8 min read

New Microsoft Security innovations expand multicloud visibility and enhance multiplatform protection >

Gain greater visibility into your multicloud environments to better understand your security posture, minimize risk, and detect and respond to threats in real time.

| | |
|--|--------------------------|
| CS (Germany) | SOX |
| Canadian Privacy Laws | TISAX |
| CCPA (US-California) | TruSight |
| Cyber Essentials Plus (UK) | |
| IRAP (Australia) | |

[News](#) [Identity and access management](#) [Microsoft Entra](#)

6 min read

New Microsoft identity and data security capabilities to accelerate CMMC compliance for the Defense Industrial Base

By [Steve Faehl](#), Federal Security Chief Technology Officer, Microsoft

May 23, 2023

Bringing the power of AI to Windows 11 – unlocking a new era of productivity for customers and developers with Windows Copilot and Dev Home

By Panos Panay, Chief Product Officer, Windows and Devices

Microsoft 365 update information

Microsoft Copilots

Bing



Edge



Word



Outlook



M365 Copilot

Excel



PowerPoint



Teams



Business Chat



Windows Copilot



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

Better interaction with OS, apps, and files

Copilot for Everyday

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

What's New in Microsoft 365

7 min read

Introducing Bing Chat Enterprise, Microsoft 365 Copilot pricing, and Microsoft Sales Copilot >

Today, at Microsoft Inspire 2023, we announced the next steps in our journey to empower every person on the planet to work in a new AI-powered way.

[News](#) [Analyst reports](#) [Microsoft Defender for Office 365](#) · Aug 1 · 3 min read

Microsoft Defender for Office 365 gets highest rating in SE Labs Enterprise Email Security Services test for Q1 2023 >

In Q1 2023 Q1, Microsoft was once again part of an evaluation of email security platforms conducted by SE Labs. We are thrilled to announce that Microsoft Defender for Office 365 has once again received an AAA Protection Award, the highest possible that a vendor can achieve in this test....

[News](#) [Enterprise](#) · Published July 31, 2023 · 4 min read

Introducing Microsoft Clipchamp: Unlock the power of video at work >

With Clipchamp as part of Microsoft 365, it's easy to know where to turn to make videos and get started. Anyone can confidently create and publish videos, using an intuitive interface and harnessing useful tools. Clipchamp empowers anyone to produce high-quality videos they can be proud of.

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

- ❖ [Bing Chat Enterprise FAQ](#)
- ❖ [Azure AD becomes Microsoft Entra ID](#)
- ❖ [July 2023 :: Office Updates : Excel, Word, Office Suite](#)
- ❖ [Cloud Policy update to group targeting options](#)
- ❖ [Microsoft 365 Admin Monthly Digest – July 2023](#)

Microsoft 365 roadmap

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

[Using this roadmap](#)

[Roadmap improvements](#)



| | |
|---|--|
| Microsoft Defender for Office 365: Security Threat Submission API | Preview Available: June 2022 Rollout Start: October 2023 |
| Microsoft Purview compliance portal: Information Protection - New Credentials SITs (U.S. Government clouds) | Rollout Start: August 2023 |
| Microsoft Teams: Live Translated Captions in Meetings on Android and iOS | Rollout Start: August 2023 |
| > Microsoft Purview compliance portal: Endpoint DLP - Authorized network share paths (U.S. Government clouds) | Rollout Start: August 2023 |
| > OneDrive: Recommended Files | Rollout Start: August 2023 |
| > Outlook: SMS on Outlook Lite | Preview Available: July 2023 Rollout Start: August 2023 |
| > Minecraft Education: Trails & Tales Update | Rollout Start: August 2023 |
| > Microsoft Teams: Allow participants to join public webinars with three concurrent devices | Rollout Start: August 2023 |
| > SharePoint Syntex: Image tagging | Rollout Start: July 2023 |
| > Microsoft Purview Communication Compliance Empower end users to report inappropriate messages in Teams | Rollout Start: July 2023 |
| > Outlook: Outlook for Android - Schedule send | Rollout Start: July 2023 |
| > Microsoft Teams: Simulcast for Teams on AVD and Citrix VDI | Rollout Start: July 2023 |
| > Microsoft Purview eDiscovery (Premium) Collections enhancement – Collect to Export (U.S. Government clouds) | Preview Available: May 2023 Rollout Start: July 2023 |
| > Power BI: Power BI content in Microsoft 365 Graph | Preview Available: November 2022 Rollout Start: July 2023 |
| > Microsoft 365 admin center: Email notifications for "Issues in your environment that require action" | Rollout Start: July 2023 |
| > Microsoft Purview compliance portal: eDiscovery (Standard) to eDiscovery (Premium) case migration tool (U.S. Government clouds) | Preview Available: May 2023 Rollout Start: July 2023 |
| > Whiteboard: Start new whiteboards with templates | Rollout Start: July 2023 |
| > PowerPoint: present local files from PowerPoint app to PowerPoint Live in Teams | Preview Available: July 2023 Rollout Start: July 2023 |
| > Microsoft Defender for Office 365: DMARC policy handling | |
| > Microsoft Defender for Office 365: Teams Security | |

What's new in your favorite Microsoft 365 app

Access Excel OneNote Outlook PowerPoint Project Visio Word

Teams OneDrive

Preview Available: June 2022
Rollout Start: October 2023

Rollout Start: August 2023

Rollout Start: August 2023

Rollout Start: August 2023

Preview Available: July 2023
Rollout Start: August 2023

Rollout Start: August 2023

Preview Available: July 2023
Rollout Start: August 2023

Rollout Start: July 2023

Preview Available: July 2023
Rollout Start: July 2023

Rollout Start: July 2023

Preview Available: July 2023
Rollout Start: July 2023

Preview Available: May 2023
Rollout Start: July 2023

Preview Available: November 2022
Rollout Start: July 2023

Rollout Start: July 2023

Preview Available: May 2023
Rollout Start: July 2023

Rollout Start: July 2023

Preview Available: July 2023
Rollout Start: July 2023

Rollout Start: July 2023

Preview Available: March 2023
Rollout Start: July 2023

Microsoft Teams Blog:



What's New in Microsoft Teams | Microsoft Inspire 2023

What's New in Microsoft Teams | Microsoft Inspire 2023

Steve_Stein on Jul 18 2023 08:30 AM

Welcome to the July 2023 edition of What's New in Teams! We are publishing this month's edition early to cover the annou...

New for This Month:

- [Microsoft 365 Copilot in Microsoft Teams Phone :: Early Access Program](#)
- [Microsoft 365 Copilot in Microsoft Teams chat :: Early Access Program](#)
- [Spatial Audio in Teams Meetings](#)
- [Collaborative Notes in Microsoft Teams Meetings :: Public Preview](#)
- [Find your content faster when you search in a specific chat or channel](#)
- [Chat embedded in Microsoft Edge browser](#)
- [Create up to 1000 channels per team](#)
- [Shared channels external collaboration requests](#)
- [New Microsoft Teams Phone solutions in India :: Airtel, Tata Communication Ltd, Tata Tele Business Services](#)
- [Teams Phone Mobile availability expands to new markets](#)
- [Teams session at Inspire 2023 : AI-powered flexible workplaces](#)
- [Teams Breakout Rooms participant Shuffle](#)
- [Express yourself in Teams meetings on VDI](#)

Chat and Collaboration:

- Copy Links to group chat messages
- Video enhancements in Teams chat
- Teams calendar enhancements

Mobile

- Extended Directory People search in Teams mobile app for iOS
- Enable "People + Keyword" search in iOS
- Make calls through speed dial and call history on Apple CarPlay



Emergence of AI Personal Assistants for Teams Meetings and Data Privacy and Security Considerations...

SanjayKumar_Pendyala in
Microsoft Teams Community Blog

08-03-2023

A screenshot of the Microsoft Dynamics 365 Sales Hub showing a trip summary for a sales route. The map displays a route from New York City to Staten Island, listing stops at various locations like Bayou Welding Works Inc. and Admiralty Arch Company. The interface includes a calendar view for scheduling and a work list for tracking tasks and leads.

Microsoft Dynamics 365 CRM and Maps with Teams integration...

Sam.InLogic on Jul 20 2023 08:00 AM

The changing face of daily global and local web communication cannot be defined more evidently than this. Work From Anyw...

Rooms and Devices:

- [Jabra PanaCast 50 Video Bar System with Remote Control for Teams Rooms on Android](#)
- [Yamaha CS-500 and CS-800 Video Collaboration Systems for Microsoft Teams Rooms on Windows](#)
- [ThinkSmart One + Lenovo IP Controller for Microsoft Teams Rooms on Windows](#)
- [AudioCodes RXPad for Microsoft Teams Rooms on Android](#)

Admin and Security:

- Management of external call routing settings in Teams admin center
- Ability to block meeting chat access in external, non-trusted meeting joins

Platform

- [Ratings and Reviews for Apps](#)
- [App Suggestions by task in "in-context" Stores](#)
- [MINDZEIT Bot](#)
- [UPWARD AGENT app](#)

Teams Premium

- [Intelligent Meeting Recap :: Generally Available](#)

The next wave of Copilot in Microsoft Teams

Pete_Daderko on Jul 18 2023 08:30 AM

From the time Microsoft Teams was launched in 2017, we've always had a unique point of view - that communication and col...

Microsoft Viva: & Viva Blog:

The employee experience platform for the new world of work



[Viva Connections](#)

Employee Communications, Culture, & Collaboration



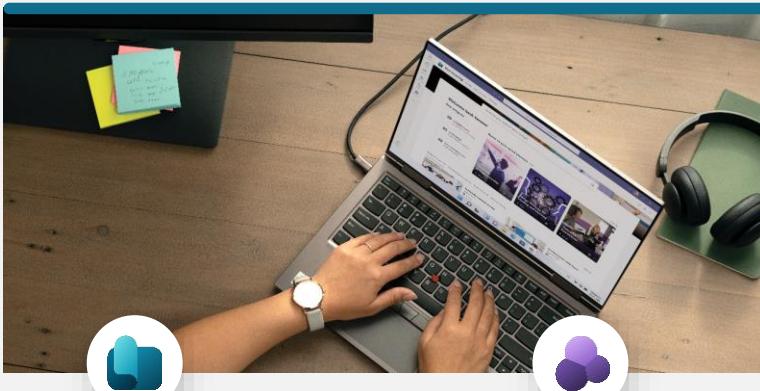
[Viva Insights](#)

Workplace Analytics & Employee Feedback



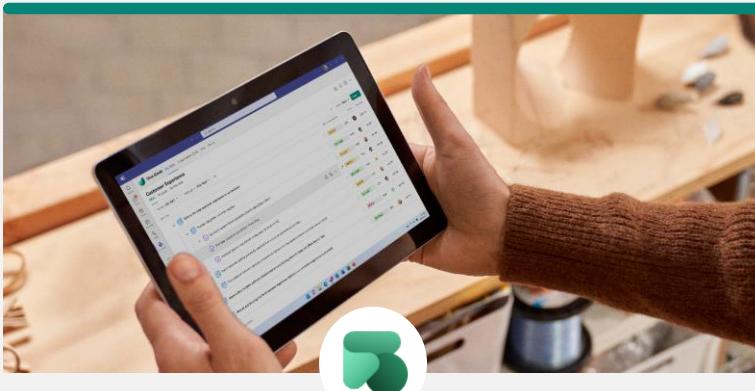
[Viva Pulse :: Preview](#)

Goals and OKR (Objectives and Key Results) Management



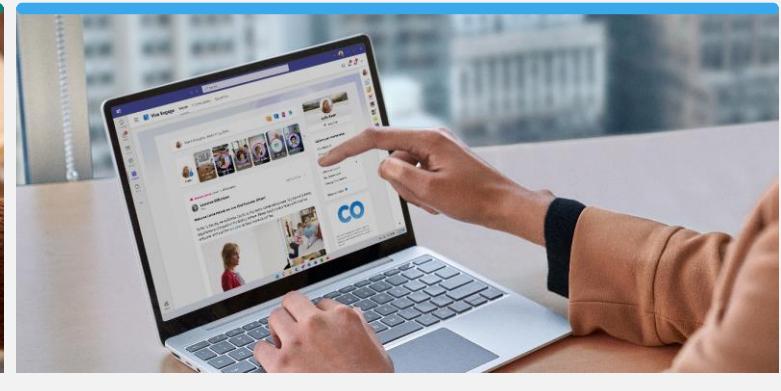
[Viva Learning](#)

Learning and Knowledge



[Viva Topics](#)

Learning and Knowledge



[Viva Sales](#)

Role-based Experiences and engagement

Microsoft Viva: & Viva Blog:

The employee experience platform for the new world of work



Microsoft Viva Connections



Microsoft Viva Engage



Microsoft Viva Insights



Microsoft Viva Pulse (Public Preview)



Microsoft Viva Goals



Microsoft Viva Learning



Microsoft Viva Topics



Microsoft Viva Sales



Getting Started with Microsoft Viva Series | Live...

Microsoft Viva MVPs share proven strategies to drive Viva adoption & deployment in your organization!



Deploying Microsoft Viva Connections internally at...

Discover how Microsoft has deployed Viva Connections to bring employees together to connect with news, conversations, and organization...

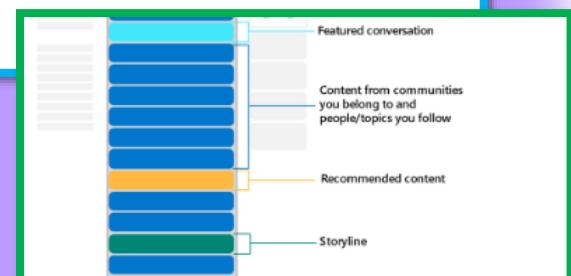
Survey name: Q1 Employee Signals
Open date: 02/03/2023
Close date: 04/03/2023
Number of responses: 11
Correlation analysis range: E1/Q4/2022 - E4/Q1/2023

Questions with strong relationships:

- 81 My team is effective at collaborating with other teams.
- 68 I know what I should be focusing on right now.
- 70 Do you work aligned to your career goals?
- 65 I feel included in my team.

What's new in Viva Insights - July 2023

Our July updates to Viva Insights include a new integration...



Viva Engage Explained: The Feed

The Viva Engage home feed drives discovery and engagement across...

Microsoft Viva Pulse is now generally available!

TranissaCreme_PMM on Jul 18 2023 08:30 AM

Today, we're excited to announce that Microsoft Viva Pulse is now generally available for customers worldwide.

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

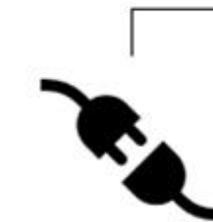


Power Pages
External-facing websites

July 18, 2023 · 4 min read

Microsoft launches Power Automate Process Mining and next-generation AI >

At Microsoft Inspire 2023 we're happy to announce that Power Automate Process Mining will become generally available on August 1, 2023. Process and task mining is changing the way businesses optimize their processes, save costs, and discover opportunities to run more efficient business operations.



Data connectors



AI Builder



Dataverse

Visit our product blogs

Power BI
Power Automate

Power Virtual Agents
Power Apps

Power Pages

Power Platform and Dynamics

AI · Jul 18 · 6 min read

Reshaping the future of business with Microsoft Sales Copilot, Dynamics 365 Customer Insights, and a new cloud migration program >



Tips and guides · Jul 31 · 4 min read

How to improve business KPIs with Connected Field Service >

How does connected field service improve your key performance indicators (KPIs), you ask? Let's discuss seven KPIs that will improve with a connected field service.



Tips and guides · Jul 24 · 5 min read

Deciphering consumer desires: Elevating customer journeys in retail CPG >

According to Gartner®, the top consumer goods technology trends in 2023 focus on customers, technology, and sustainability. Learn more.

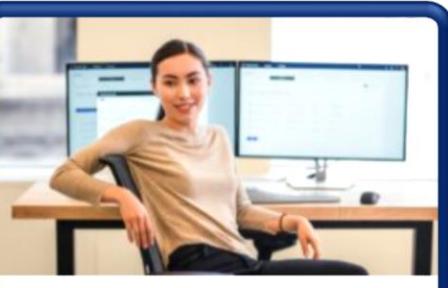


News and product updates · Jul 18

· 6 min read

2023 release wave 2 plans for Microsoft Dynamics 365 and Power Platform now available >

On July 18, 2023, we published the 2023 release wave 2 plans for Microsoft Dynamics 365 and Microsoft Power Platform, a compilation of new capabilities planned to be released between October 2023 and March 2024.



Customer stories · Aug 2 · 6 min read

The early reviews are in: Dynamics 365 Copilot helps to reclaim time, drive innovation, and engage customers >

Only months after announcing copilot capabilities in Microsoft Dynamics 365 and Power Platform, employees at more than 63,000 organizations—including brands like 3M, Prada Group, Campari, and Kraft Heinz—have had the opportunity to experience some of the AI-assisted features firsthand—and the reviews are pouring in. A common theme in the feedback we've received is a boost in efficiency and productivity, with employees able to reduce the time and effort spent completing common tasks.



Dynamics 365 Sales · Aug 2 · 2 min read

Conversation intelligence unleashes the potential of your sales organization >

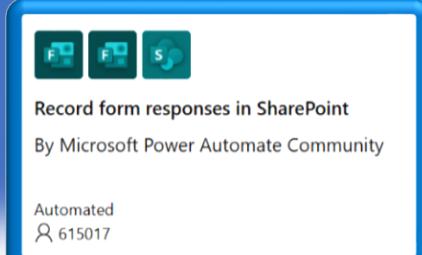
Effective communication is vital in building strong customer relationships and closing deals.



Dynamics 365 Supply Chain Management · Jul 26 · 5 min read

Power Automate Process Mining empowers warehouses to boost their efficiency significantly >

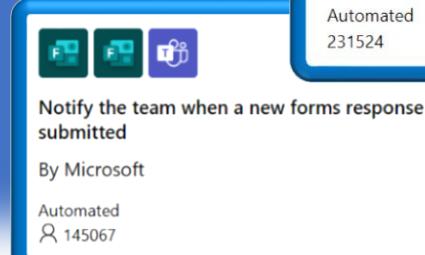
Every warehouse manager is keen on improving the processes on the warehouse floor. But where to start? What to optimize? It is far from easy to discover the bottlenecks. This is where the Power Automate Process Mining comes really handy. In the 10.0.35 release we ship the integration of Supply Chain Management Warehouse module with Power Automate Process Mining. This integration gives some really valuable insight into the material movement in the warehouse.



Record form responses in SharePoint

By Microsoft Power Automate Community

Automated
615017



Notify the team when a new forms response is submitted

By Microsoft

Automated
145067



Developer and GitHub

GitHub Blog and Changelog

- Removal of source IP addresses from API error messages related to IP allow lists
- Simplified post-migration identity mapping for Enterprise Managed Users
- Jenkins Scripted Pipeline Migrations :: Private Beta
- Request a CVE identifier for your repository security advisory via REST API
- GitHub Actions: Required Workflows will move to Repository Rules
- Deprecation Notice – Dependabot to Drop Support for Python 3.6 and 3.7
- pnpm Support for Dependency Graph, Dependabot Alerts, and Dependabot Security Updates
- 2FA requirement status on the People pages
- Secret scanning shows metrics for push protection at the organization level



Building containerized services at GitHub using GitHub

How we build containerized services at GitHub using GitHub

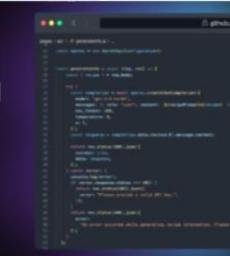
Learn about how we build containerized services that power microservices on the GitHub.com platform and many internal tools.

MV Karan & Catherine Weilaender

August 2, 2023

How to build a GPT-3 app with React, Nextjs and GitHub Copilot

Github Copilot



How to build a GPT-3 App with Nextjs, React, and GitHub Copilot

In this step-by-step tutorial, you will learn how to use GitHub Copilot to build an application with OpenAI's gpt-3.5-turbo model.

Kedasha Kerr July 25, 2023

Microsoft Developer Blogs:

- vcpkg 2023.06.20 and 2023.07.21 Releases: GitHub Dependency Graph Support, Android Tested Triplets, Xbox Triplet Improvements, and More...
- The Microsoft author-signing certificate update August 14th, 2023
- OpenAI API endpoints
- Desired State Configuration (DSC) Planning Update
- Use natural language to execute SQL queries
- Unity extension for Visual Studio Code
- Get Microsoft Entra developer news in your inbox

GitHub Copilot Chat beta now available for every organization

All GitHub Copilot for Business users now have access to a limited GitHub Copilot Chat beta, bringing the power of conversational coding right to the IDE.

Mario Rodriguez July 20, 2023

Repository Rules: Branch and tag protections built for scale.

Shelley McKinley July 25, 2023

GitHub Repository Rules are now generally available

Repository rules provide an easy, flexible way to define branch protections and ensure consistency in code across repositories.

Patrick Knight July 24, 2023

How to responsibly adopt GitHub Copilot with the GitHub Copilot Trust Center

We're launching the GitHub Copilot Trust Center to provide transparency about how GitHub Copilot works and help organizations innovate responsibly with generative AI.

Shelley McKinley July 25, 2023

A developer's guide to prompt engineering and LLMs

Prompt engineering is the art of communicating with a generative AI model. In this article, we'll cover how we approach prompt engineering at GitHub, and how you can use it to build your own LLM-based application.

Albert Ziegler & John Berryman July 17, 2023

Smarter, more efficient coding: GitHub Copilot goes beyond Codex with improved AI model

We're thrilled to announce two major updates to GitHub Copilot code Completion's capabilities that will help developers work even more efficiently and effectively.

Shuyin Zhao July 28, 2023

Introducing code referencing for GitHub Copilot

Today, we're announcing a private beta of GitHub Copilot with code referencing that includes a filter to detect code suggestions matching public code on GitHub.

Ryan J. Salva August 3, 2023

Security alert: social engineering campaign targets technology industry employees

GitHub has identified a low-volume social engineering campaign that targets the personal accounts of employees of technology firms. No GitHub or npm systems were compromised in this campaign. We're publishing this blog post as a warning for our customers to prevent exploitation by this threat actor.

Alexis Wales July 18, 2023



Office Developer Blogs and Microsoft 365 Dev Center



Microsoft

Bring your data into Microsoft 365 with Microsoft Graph connectors



Bring your data into Microsoft 365 with Microsoft Graph connectors

August 3, 2023

 Dorine Rassaian, Mounika Narayanan, Renima Malhotra

Microsoft Graph connectors help users get relevant results from all their data in the context of the app they search from.

Microsoft

Profile card properties path and permission changes in Microsoft Graph (beta)



Profile card properties path and permission changes in Microsoft Graph (beta)

August 1, 2023



Ruth Waithera

Introducing breaking changes to profile card properties APIs on the beta version of Microsoft Graph.

Microsoft

Announcing Microsoft Graph PHP 2.0.0-RC19



Announcing Microsoft Graph PHP 2.0.0-RC19

July 25, 2023



Isaac Vargas Chacon

Today we are announcing the new RC19 version. Since the RC5 announcement, we have improved many of the common scenarios to give you time back to focus on quality and design.

Microsoft

July 2023
Teams Toolkit for Visual Studio Code update



Teams Toolkit for Visual Studio Code update – July 2023

July 20, 2023

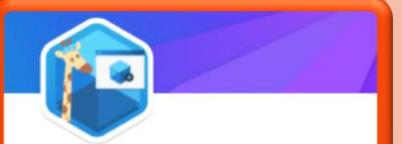


Junjie Li

In this update, we share the latest with Microsoft Teams app development using Teams Toolkit for Visual Studio Code.

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

- [Teams Conversation Bot](#)
- [Teams Conversation Bot SSO quick-start](#)
- [Teams Azure Open AI Embeddings And Redis Search On Uploaded File Using Bot](#)
- [Broadcast message to organization using activity feed notification \(Graph APIs\)](#)
- [Use Outlook event-based activation to set the signature](#)
- [People picker control in Adaptive Cards](#)
- [Receive Channel messages with RSC permissions](#)
- [Using reusable IFramePanel control in your SPFx solutions](#)
- [Keep your app top of mind and top of chat with message extensions in Microsoft Teams and Microsoft 365 Copilot](#)



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...

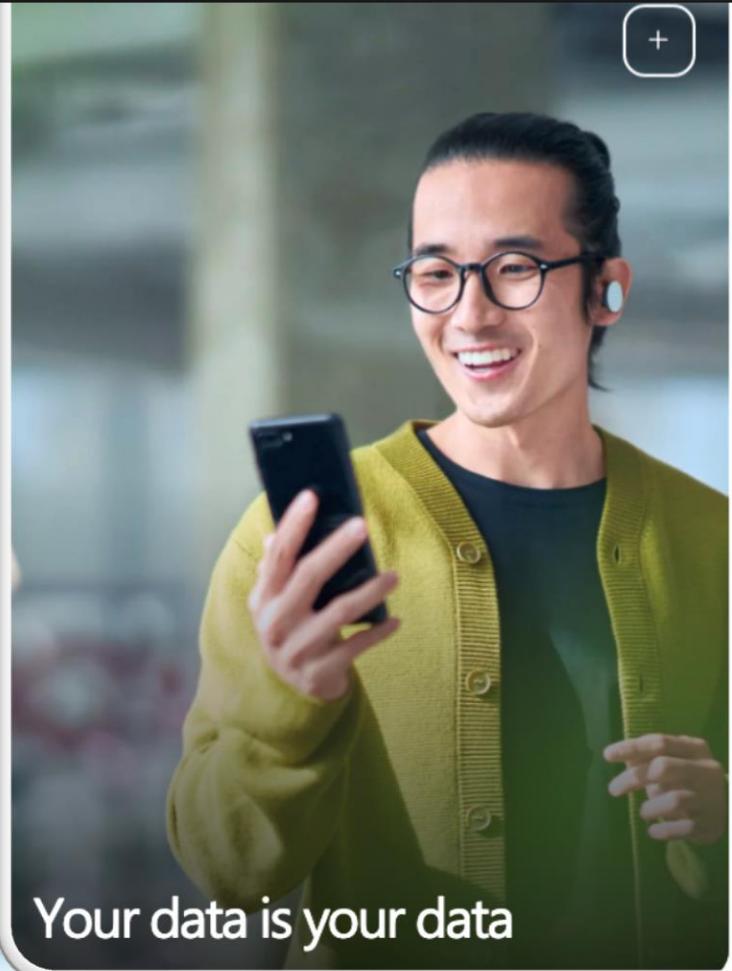
[View code sample >](#)

Microsoft AI runs on Trust



Responsible AI

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



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

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

Putting principles into practice at Microsoft

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

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

Your data is protected at every step

New trends with Microsoft Technology



Updates from Microsoft Industry Blogs



[Government](#) • Aug 3 • 4 min read

4 steps to advance your AI journey with Microsoft for Government >

When it comes to AI, Microsoft has the expertise to understand what the technology can do, the mission experience to turn ideas into successful innovations, and the policy and regulatory knowledge to ensure that solutions are ethical and sound.



[Healthcare](#) • Aug 2 • 6 min read

Unlock efficiency and quality of care with Microsoft Cloud for Healthcare Care management >

Care management is the coordinated approach to healthcare that improves care for individuals with complex conditions through planning, coordination, and monitoring.

July 31, 2023 • 4 min read

Empowering your business: The latest from Microsoft Cloud for Industry >

The latest plans for Microsoft Cloud for Industry bring new innovations that provide organizations with significant capabilities to transform business.



[Financial services](#) • Jul 25 • 4 min read

4 simple steps to de-mystifying cyber risk for small business owners >

The escalating threat landscape requires proactive measures to safeguard small businesses from cyberattacks. Fortunately, the protections against them are keeping pace with improvements in quality and usability.



[Financial services](#) • Jul 27 • 5 min read

6 steps to improve operational resilience in financial services with the Microsoft Cloud >

As technology drives unprecedented transformation in financial services, operational resilience has become an increasing area of focus for financial institutions, regulators, and technology providers alike.



[Energy and resources](#) • Jul 19 • 6 min read

Announcing general availability of Azure Data Manager for Energy >

We're pleased to announce general availability of Azure Data Manager for Energy. Designed to help energy companies accelerate digital innovation, Azure Data Manager for Energy is an open, fully-managed OSDU™ Data Platform service powered by the Microsoft Cloud.



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 >](#)

The screenshot shows the Microsoft Emissions Impact Dashboard interface. It includes a top navigation bar with links like 'File', 'Export', 'Chat in Teams', 'Get insights', 'Subscribe', and a search bar. Below the navigation is a main content area with several sections:

- Emissions details:** Sub-sections include 'Carbon emissions over time (MTCO2e)' (line chart from 2017 to 2020), 'Usage over time' (line chart from 2017 to 2020), 'Carbon emissions amount by location (MTCO2e)' (map of the world with color-coded intensity), and 'Total carbon emissions (MTCO2e)' (summary box: 34.48).
- Carbon intensity (MTCO2e/usage):** Summary box: 0.1071701.
- Carbon emissions by Azure service:** Bar chart showing emissions for various services: Azure IoT Security (7.85), BitTalk Services (7.85), SQL Server Stretch Database (2.61), Azure VM Image Builder (1.49), and Log Analytics (1.32).
- Energy efficiency training:** Text: Learn how increasing efficiencies and using less energy can help reduce your carbon emissions. Call-to-action: [Get started >](#)
- Renewable energy procurement training:** Text: Find out how to build a roadmap to support your shift to renewable energy. Call-to-action: [Get started >](#)
- Announcing Well-Architected for Industry: Improve workloads and solution deployments >** Text: To help our partner and customer ecosystem effectively launch new Industry solutions, we are thrilled to launch Well-Architected for Industry, starting with Microsoft Cloud for Sustainability. Call-to-action: [Jul 10 • 4 min read](#)

Microsoft Sustainability Report for 2022



2022 progress

Microsoft Cloud for Sustainability

The Microsoft Cloud for Sustainability data model centralizes emissions data from disparate sources in a shared data language—streamlining data ingestion, integration, and calculations and enabling more accurate and reliable reporting. The Microsoft Cloud for Sustainability data model initially focused on carbon and was expanded in 2022 to include water data.

Advanced policy

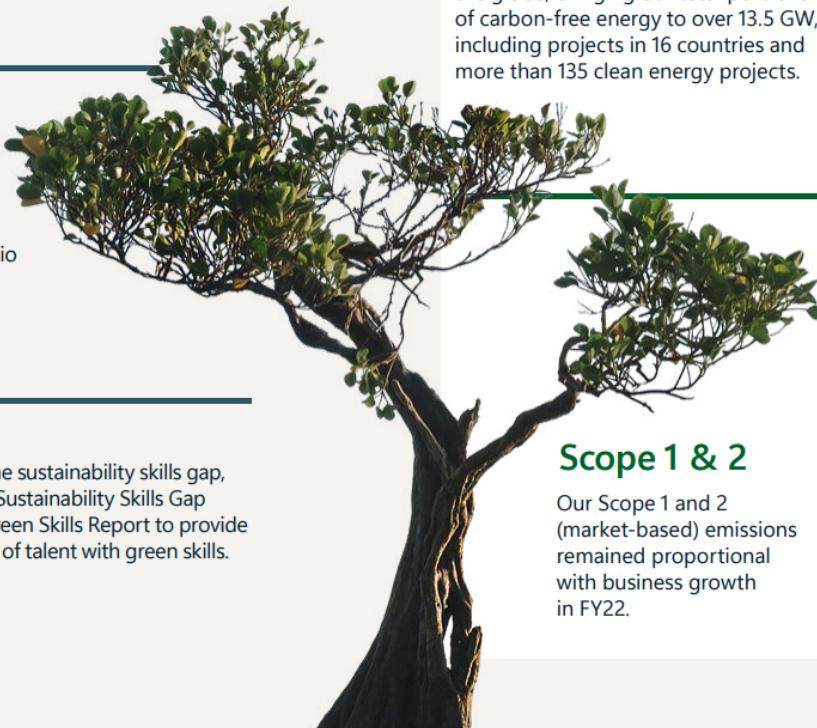
To support our policy work, we published several briefs on carbon and electricity policy to share the priorities and principles that guide Microsoft's policy advocacy work around the world.

>\$600M in climate innovation

Since its inception, Microsoft has allocated over \$600 million impact investment capital from our Climate Innovation Fund into a global portfolio of investments, featuring sustainable solutions in energy, industrial, and natural systems.

Sustainability skills gap

To better understand how to close the sustainability skills gap, Microsoft published the Closing the Sustainability Skills Gap report and LinkedIn published the Green Skills Report to provide insights into the demand and supply of talent with green skills.



Carbon

1.4M metric tons

We contracted 1,443,981 metric tons of carbon removal in FY22. We also made first-of-a-kind multi-year forward offtake commitments to carbon removal, which we view as the model for scaling this industry.

13.5 GW

In FY22, we signed new PPAs around the globe, bringing our total portfolio of carbon-free energy to over 13.5 GW, including projects in 16 countries and more than 135 clean energy projects.

Scope 1 & 2

Our Scope 1 and 2 (market-based) emissions remained proportional with business growth in FY22.

Water

15.6M m³

In FY22, we contracted for replenishment projects that are estimated to provide more than 15.6 million m³ in volumetric water benefit over the lifetime of these projects.

1M

By the end of FY22, we provided more than 550,000 people with access to clean water and sanitation solutions in Brazil, India, Indonesia, and Mexico and reached just under one million people by the end of the calendar year 2022.

Environmental justice

Environmental justice is embedded in our water access target, and we are looking for ways to be more intentional about integrating environmental justice into our replenishment investments.

Scopes explained

Scope 1
Direct emissions created by a company's activities



Scope 2
Indirect emissions from a company's activities



Scope 3
Indirect emissions from all other activities up and down the value chain



Waste

12,159 metric tons

In FY22, we diverted 12,159 metric tons of solid waste from landfills and incinerators across our direct operational footprint.

82%

Our reuse and recycle rates of servers and components across all cloud hardware reached 82 percent in FY22.

29%

We reduced single-use plastics in our Microsoft product packaging by more than 29 percent, a decrease from 4.7 percent to 3.3 percent by weight (on average) of plastic per package in FY22.

Ecosystems

12,270 acres

In FY22, we protected 12,270 acres of land in Belize. We now protect more than the 11,206 acres of land that we use.

Big game migration program

Through the NFWF Western Big Game Migration Program, we invested in projects in the American West that are vital for preserving the migration corridors of endangered and at-risk species, including mountain lions and grizzly bears.



Protecting biodiversity

Last year, we contributed to the TNC Belize Maya Forest Project (BMF) to protect an additional 236,000 acres in a global biodiversity hotspot.

Microsoft Research Blog



Research Focus: Week of July 31, 2023 >

August 2, 2023

In this edition: A new anonymous token protocol balances fraud detection and privacy; survival instinct in offline RL; Nimble offers rollback protection for...

Microsoft at OSDI 23:
Hyrax: Fail-in-Place Server Operation in Cloud Platforms

OSDI 23

A fail-in-place approach for sustainable server operations >

July 27, 2023

Managing server failures at the scale of a cloud platform is challenging. The Hyrax fail-in-place approach reduces the need for immediate repairs and creates a path toward lowering water consumption and carbon emissions in cloud datacenters.

Microsoft at ICML 2023

Discover the power of machine learning.

Microsoft at ICML 2023: Discoveries and advancements in machine learning >

July 21, 2023 | [Kate Forster](#)

Microsoft Research is proud to be a sponsor of ICML 2023! From audio classification to privacy estimation and more, explore conference highlights in our latest blog post.

MICROSOFT RESEARCH

RESEARCH FOCUS 21 | WEEK OF JULY 31, 2023

In this issue

Anonymous Tokens with Stronger Metadata Bit Hiding from Algebraic MACs



Microsoft at DIS 2023:
Thinking beyond Audio: Augmenting headphones for everyday digital interactions

DIS23
rebuilding & resilience

Thinking beyond audio: Augmenting headphones for everyday digital interactions >

July 12, 2023 | [Payod Panda](#)

Because headphones rank among the most popular wearables in the market, we have an exciting opportunity to expand their capabilities through integrating existing sensors with supplementary ones to enable a wide variety of experiences that go beyond traditional audio control.

Microsoft at ATC 2023:
Renovating computer systems securely and progressively with APRON

ATC 2023
Renovating computer systems securely and progressively with APRON

Renovating computer systems securely and progressively with APRON >

July 10, 2023 | [Sangho Lee](#)

This research paper was accepted by 2023 USENIX Annual Technical Conference (ATC), which is dedicated to advancing the field of systems research. Whether they're personal computers or cloud instances, it's crucial to ensure that the computer systems people use every day are reliable and secure....

Microsoft Quantum Blog :: Innovation News



Enhance your productivity with Copilot in Azure Quantum Elements

Augment scientific discovery and increase your research productivity for some of the most complex chemistry and materials problems with a natural language interface, integrated within your cloud environment for smart code generation and data connectivity. Empower researchers to use conversational interactions to generate code and fuel productivity. Get technical, guided answers with sample code in a simple interface, query and visualize data, and initiate simulations, reducing the barriers to configuring and launching your workflows.

[Watch the demo >](#)



Evaluating Quantum Computing Research



Jason Zander
Executive Vice President at Microsoft

July 28, 2023

1 article

+ Follow



Azure Quantum Elements private preview

Sign up to learn more about the [Azure Quantum Elements](#)

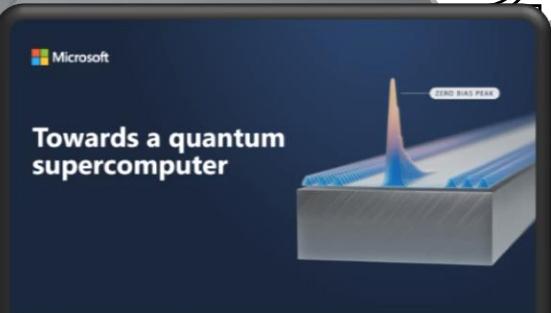
Code with Azure Quantum

// Welcome! Enter Q# code here.

[Try Copilot in Azure Quantum](#)

Select number of shots

1 25 50 75 100



Towards a quantum supercomputer



Microsoft achieves first milestone towards a quantum supercomputer >

June 21, 2023 • 8 min read



By [Chetan Nayak](#), Technical Fellow and Corporate Vice President of Quantum Hardware

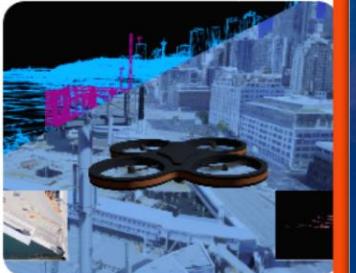
Today marks an important moment on our path to engineering a quantum supercomputer and empowering scientists to solve many of the hardest problems facing our planet. [Read more](#)

Innovation News



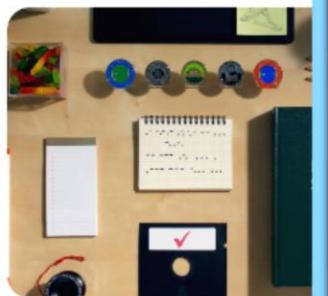
Innovation

Microsoft launches Project AirSim, an end-to-end platform to accelerate autonomous flight



Innovation

MORSE security team takes proactive approach to finding bugs



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

VMs, Features, & Announcements

- [Azure Boost](#) :: Preview
- [Azure Dedicated Host – Resize](#) :: Public Preview
- [DR for Shared Disks – Azure Site Recovery](#) :: Private Preview
- [Intra-account container copy in Azure Cosmos DB for MongoDB](#)
- [Azure Monitor container insights offers customizable cost optimization settings](#)
- [Azure DevOps July 2023 updates](#)
- [Azure Red Hat OpenShift August 2023 updates](#)
- [The Classic VMs retirement deadline is now September 6, 2023](#)
- [OData API type in Azure API Management](#) :: Public Preview

Data, AI, Security, & Availability

- [Azure Chaos Studio has User-Assigned Managed Identity and Custom Role Assignment](#) :: Public Preview
- [Autoscale IOPS in Azure Database for MySQL – Flexible Server](#) :: Generally Available
- [Enhanced Security and Compliance add-on for Azure Databricks](#) :: Generally Available
- [Updated default TLS policy for Azure Application Gateway](#)
- [Firmware analysis in Defender for IoT](#) :: Public Preview
- [Bring your own key on Ephemeral OS disk for AKS](#) :: Public Preview
- [New Extended Security Updates \(ESUs\) enabled by Azure Arc](#)

Operations & Benefits

- [Azure Load Testing: Run tests for up to 24 hours](#) :: Generally Available
- [Azure Load Testing: Run tests with 100,000 virtual users](#) :: Generally Available
- [Cloud Next-Generation Firewall \(NGFW\) by Palo Alto Networks - an Azure Native ISV Service](#)
- [Crash Consistent VM Restore points](#) :: Public Preview
- [Hotpatch on Windows Server VMs on Azure with the Desktop Experience installation mode](#)

Announcements, Azure Operator Nexus, Hybrid + Multicloud Published August 1, 2023 • 5 min read

Modernize and monetize your network investments with Microsoft Azure Operator Nexus >

By Yousef Khalidi Corporate Vice President, Azure for Operators

Operator Nexus enables operators to use cloud technology to modernize and monetize their network investments—lowering total cost of ownership (TCO), driving operational efficiency and resiliency with advanced AI and automation, and improving the security of highly distributed, software-based networks.

AI + Machine Learning, DevOps, Hybrid + Multicloud, Management and Governance • 9 min read

Turn your vision into impact with Microsoft Azure >

Alysa Taylor

Corporate Vice President, Azure and Industry

By connecting customers with our 90,000+ partner ecosystem, we want to enable organizations in every industry to leverage the Microsoft Cloud as the best foundational investment for bringing their biggest opportunities to life.

AI + Machine Learning, Announcements, Azure AI, Azure OpenAI Service, Customer stories

Published August 7, 2023 • 5 min read

Scale generative AI with new Azure AI infrastructure advancements and availability >

By Nidhi Chappell General Manager, Azure AI Infrastructure, and Eric Boyd Corporate Vice President, AI Platform

We are excited to share a series of announcements that highlight Microsoft Azure's commitment to driving innovation and empowering businesses with cutting-edge AI solutions.

AI + Machine Learning, Azure OpenAI Service, Customer stories, Partners

Published July 26, 2023 • 7 min read

What's New in Azure Data & AI: Partners make more possible >

By Jessica Hawk Corporate Vice President, Data, AI, and Digital Application Product Marketing

Microsoft has 400,000 partners around the world that enable us to deliver on our collective mission to empower every person and every organization on the planet to achieve more. This month, we kicked off our new fiscal year with Microsoft Inspire 2023, our largest partner event of the year. The event featured keynotes, breakout sessions, and expert Q and A's that provided partners with fresh perspectives and insights to strengthen their practices.

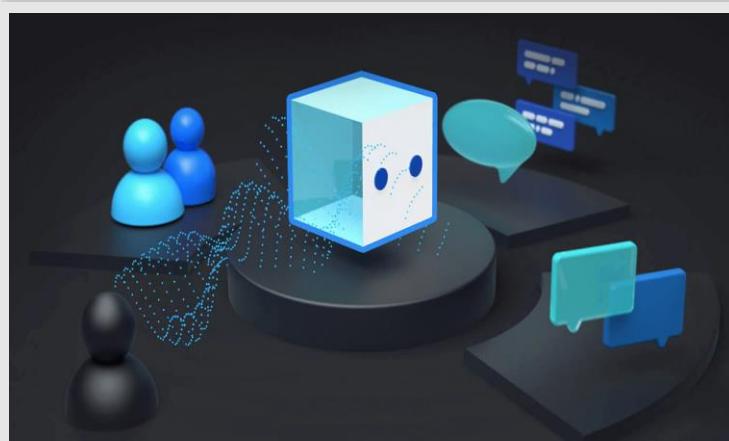


Azure Services Directory



Azure Operator Nexus

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



Azure AI Bot Service

Design and Build enterprise-grade AI Bots



Microsoft Purview

Govern, protect, and manage your data estate

Azure Operator Nexus

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

Azure AI Bot Service

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

Microsoft Purview

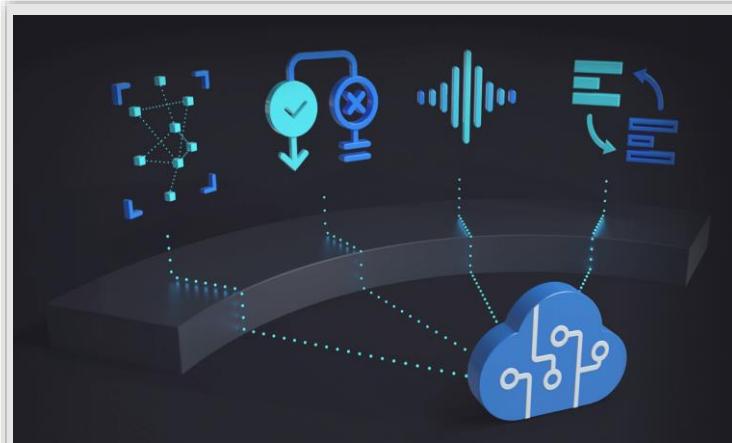
- ❖ [Create a unified map of data](#) across your entire data estate
- ❖ [Make data easily discoverable](#)
- ❖ [Discover, classify, and protect sensitive information wherever it lives or travels](#)
- ❖ [Get a bird's-eye view of sensitive data](#) with Data Estate Insights
- ❖ [Share data without having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

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

Azure Services Directory



Azure Confidential Computing

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



Azure Arc

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



Azure Sphere

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

Azure Confidential Compute

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

Azure Arc

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

Azure Sphere

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

Showcase of the Month



IT Showcase

Discover the inside story of how Microsoft does IT.
IT Showcase shares the blueprint of Microsoft reinvention, helping you learn from our experience and accelerate your transformation.



Microsoft Showcase Series



Jul 20, 2023 | Lukas Velush

Streamlining engineering at Microsoft with Azure DevOps

Microsoft runs on Microsoft technology. We are the proving ground for our products and when we say that software is enterprise-ready this means that we have already built it for and run it at scale in our own enterprise. We are in the business of building the future of technology. And more often than not,...

Jul 28, 2023 | Inside Track staff

Instrumenting ServiceNow with Microsoft Azure Monitor

At Microsoft we have integrated our ServiceNow environment with Microsoft Azure Monitor to create a comprehensive, end-to-end monitoring solution that helps us to ensure performance, reliability, and service excellence across our ServiceNow environment. Combining ServiceNow with Azure Monitor helps us monitor the availability, performance, and usage of the ServiceNow platform and provide actionable insights to...

Aug 1, 2023 | Aleenah Ansari

Powering decision making at Microsoft by analyzing data with Microsoft Power BI

Microsoft's drive to make more and better data-driven decisions is fueled by analyzing data with Microsoft Power BI. But how is it getting employees to analyze their data and build their own visualizations? They're teaching them. As the saying goes: if you teach someone to fish, you'll feed them for a lifetime. That's exactly what...

Aug 2, 2023 | Lukas Velush

Running on VPN: How Microsoft is keeping its remote workforce connected

To ensure that employees had a reliable hybrid work experience at the onset of the COVID-19 pandemic, Steve Means, principal cloud network engineering manager in Microsoft Digital Employee Experience, and his team set out to make sure that the company's internal network would hold up. They were cautiously optimistic—the team had just rebuilt the entire...

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.

Aug 3, 2023 | Inside Track staff

Modernizing enterprise integration services at Microsoft with Microsoft Azure

Our Platform Engineering team in Microsoft Digital Employee Experience (MDEE) wanted to improve the capabilities, performance, and resiliency of our on-premises integration platform. To do this, the team used Microsoft Azure Integration Services to build a cloud-based integration platform as a service (iPaaS) solution that increased data-transaction throughput and integration capabilities for our enterprise data...



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

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<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 AI Skills Initiative : Empower workers around the world



New skills for a new way of working

AI offers tremendous potential to empower workers around the world—but only if everyone, everywhere has the skills to use it.

[Introducing our AI Skills Initiative >](#)



Microsoft's approach to AI

You might not realize it, but you probably use artificial intelligence (AI) every day. AI is everywhere, and it's constantly changing how we work and play. Explore how AI is helping people create, solve complex problems, and benefit their communities.

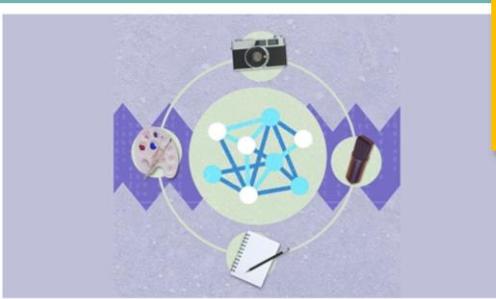
[▷ Watch the video](#)



Responsible AI

Microsoft is committed to a practice of responsible AI by design, guided by a core set of principles: fairness, reliability and safety, privacy and security, inclusiveness, transparency, and accountability.

[▷ Learn more about responsible AI](#)



Generative AI

Generative AI is simplifying our everyday. Learn how it works, what it can do, and how you can use it to unleash your creativity, unlock more productivity, and uplevel your skills.

[▷ See it in action](#)



Generative AI

Discover the skills needed to apply generative AI in your career. Learn the core concepts of Artificial Intelligence and generative AI functionality.

- Develop an understanding of generative AI models.
- Learn the ethical considerations of using generative AI.
- Explore the impact of generative AI tools.

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



AI skills to help you achieve more

The new Skills for Jobs learning pathway offers free introductory generative AI content and coursework and allows learners to earn a Career Essentials Certificate that demonstrates their commitment to skill-building.

[Skills for Jobs learning pathways >](#)

As part of our Skills for Jobs program, Microsoft is focused on helping people around the world stay ahead of emerging skills gaps and succeed in an ever-changing digital economy.

[Learn more about Skills for Jobs >](#)

Harnessing the power of AI

Microsoft Learning and Training:



Browse all learning paths and modules

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

A collage of Microsoft learning module cards and a brain diagram. The cards include: "Microsoft Security, Compliance, and Identity Fundamentals" (Learning Path, 43 min, Azure, Business User, Beginner), "Introduction to Microsoft Power Platform" (Module, 36 min, Microsoft Power Platform, Business Analyst, Beginner), "PL-900: Microsoft Power Platform Fundamentals" (Learning Path, 7 hr 5 min, Dynamics 365, Business User, Beginner), "Explore Microsoft Teams" (Module, 49 min, Microsoft 365, Administrator, Intermediate), "Get started with AI on Azure" (Module, 34 min, Azure, AI Engineer, Beginner), "Write your first C# code" (Module, 17 min, .NET, Developer, Beginner), and "Introduction to Power BI" (Module, 46 min, Microsoft Power Platform, Business Analyst, Beginner). Each card has an "Add" button. In the background, a stylized brain composed of colored cubes (red, blue, purple) is shown with white lines connecting different parts, symbolizing thought or learning pathways.

Microsoft Virtual Training Days

Microsoft Events and Training: Updates



Microsoft Virtual Training Days

Events Catalog

Microsoft Ignite

The live show has ended, but preparations for the next Microsoft Ignite event have just begun. Mark your calendars for November 15–16, 2023, and sign up for registration notifications so you can secure your spot early.

[Get notified >](#)

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.

Power Virtual Agents in a Day - Argano - United States

08/23/2023 | 08:00 - 16:00 (CST)

Digital

English (United...)

Training

[Registration and details](#)

App in a Day - SkyPoint Cloud - United States

08/23/2023 | 08:00 - 16:00 (PST)

Digital

English (United...)

Training

[Registration and details](#)

Microsoft Azure Virtual Training Day: AI Fundamentals

08/24/2023 | 13:00 - 16:30 (PST)

Digital

Training

[Registration and details](#)



New Training Initiative – Digital Skills for the Future

help professionals gain and demonstrate their skill

Build the skills you need to transition into a new tech job

LinkedIn and Microsoft have teamed up to provide free courses to help you find an in-demand tech role.

LinkedIn Learning |  Microsoft

Software Developer

Understand the core concepts and structure of programming languages and learn how they're applied.

Skills you'll learn:

- Programming core concepts
- Working with collections
- Using external code
- Finding and fixing bugs

[Earn a Career Essentials in Software Development Professional Certificate](#)



Data analyst

Explore foundational concepts used in data analysis and practice using software tools for data analytics and data visualization.

Skills you'll learn:

- Data gathering and cleaning
- SQL queries
- Quality data sets and visualizations
- Data analysis software tools

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



Business analyst

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

Skills you'll learn:

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

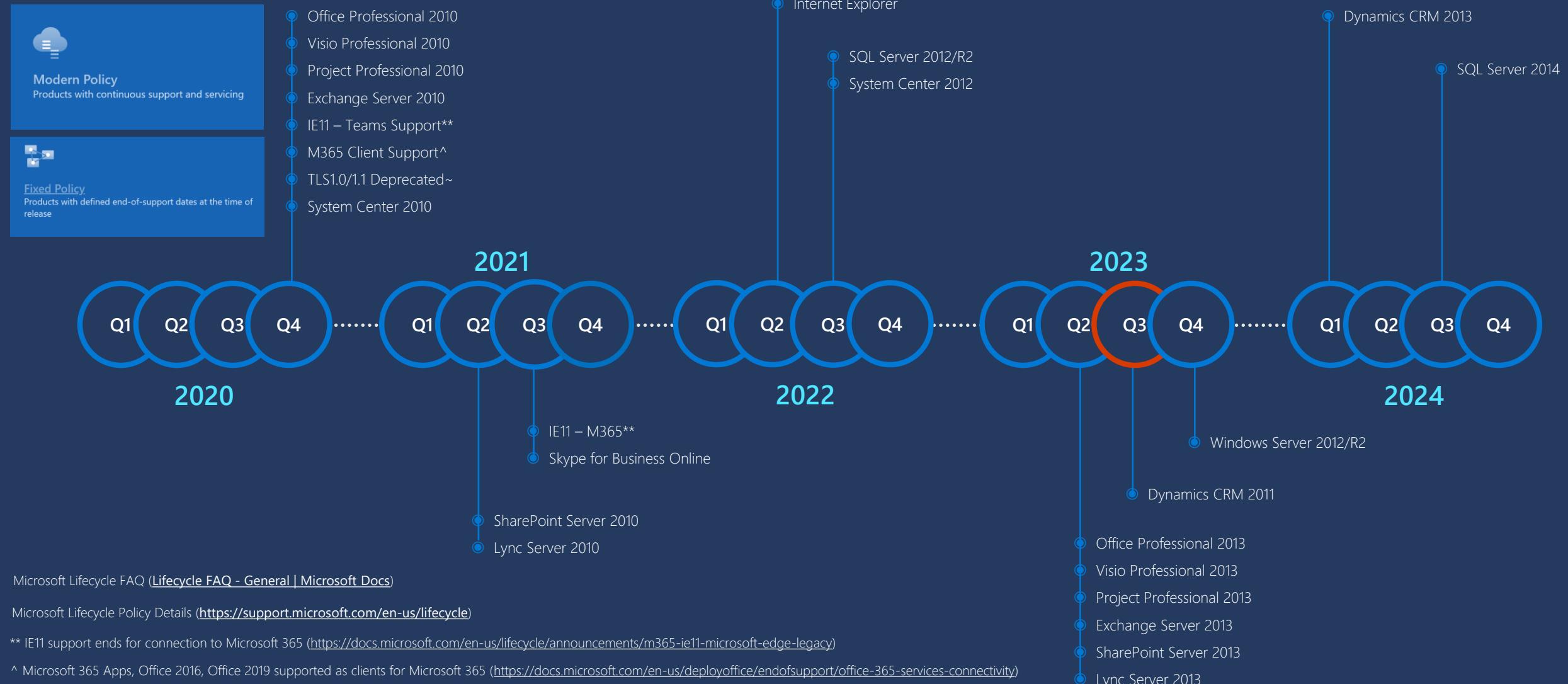
[Earn a Career Essentials in Business Analysis Professional Certificate](#)

Product Lifecycles

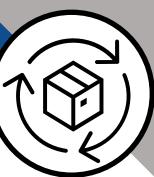




End of Service Roadmap to 2024



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

- ⌚ Windows 11, version 21H2 end of servicing (Home & Pro)
- ⌚ Power BI Windows app for Surface Hub reaching retirement
- ⌚ Windows 10, version 22H2 end of support date updated
- ⌚ Windows 10, version 21H2 end of servicing (Home & Pro)
- ⌚ Windows 10, version 20H2 end of servicing (Enterprise, Education)
- ⌚ Microsoft Store for Business and Education retiring March 31, 2023

Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

- ⌚ 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
- ⌚ Kaizala to be retired August 31, 2023
- ⌚ UPDATED: Windows Analytics retirement on January 31, 2020

[See more >](#)

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



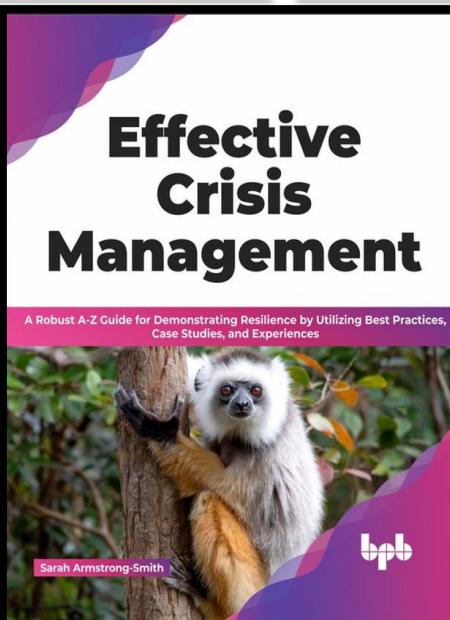
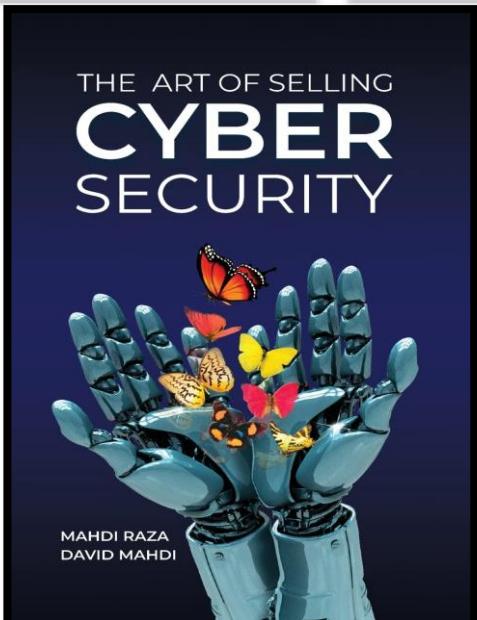
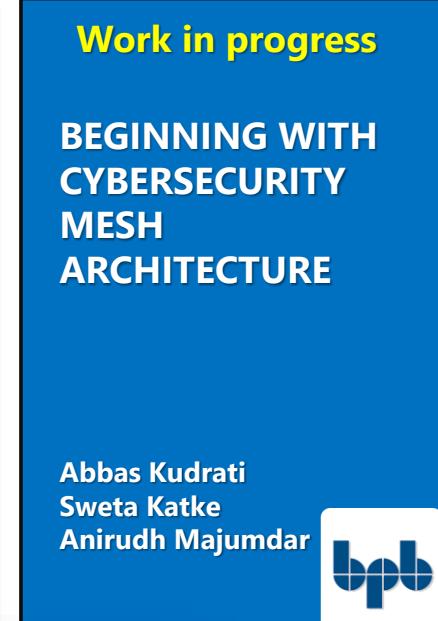
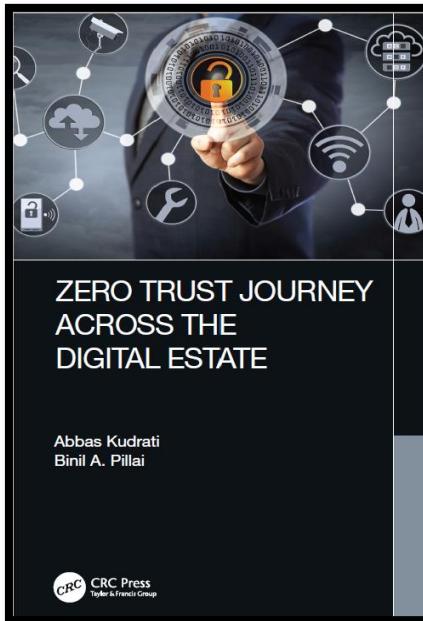
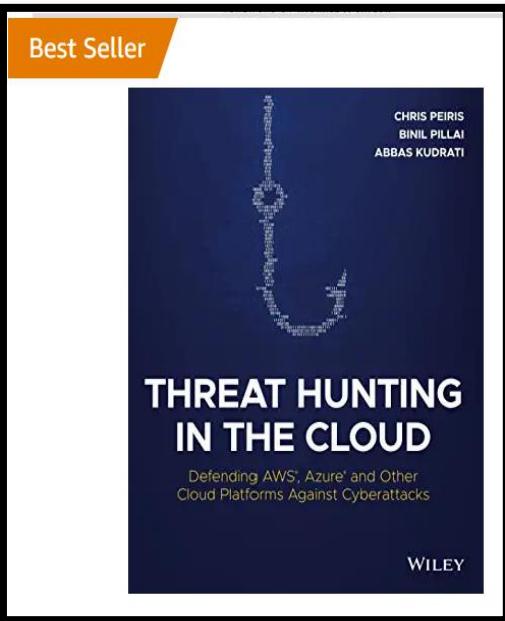
| Company | Date | Description |
|-------------------------|------------|---|
| Movere | 10-21-2019 | Movere accelerates cloud migrations. It increases business intelligence by accurately presenting entire IT environments within a single day , providing enterprises with the confidence they need to have 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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