



Microsoft

# Monthly Technical Briefing

## MAY 2023



**Abbas Kudrati**  
**APAC Chief Cybersecurity Advisor**  
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**<https://aka.ms/abbas>**

# My latest book is now released.

Available now on the [Amazon portal](#) in your country.

This is non-technical book, ideally for any CXO level and Board Members who would like to learn about various types of technical and non-technical business risk with real world examples and use cases.



## Managing Risks in Digital Transformation

Understanding the modern landscape of digital threats  
with the help of real-world examples and use cases



ABBAS KUDRATI  
SHASHANK KUMAR | ASHISH KUMAR

# Microsoft

- [M365 Conference 2023](#)
- [Microsoft Build 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](#)
- [Power Platform and Dynamics](#)
- [Power Platform Templates](#)
- [GitHub Updates](#)
- [Developer Blogs and Showcase](#)
- [Office Developer Blog](#)



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



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



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

# RSA Conference 2023 San Francisco

Moscone Center | Apr. 24 - 27, 2023

## Let's Join Forces at RSAC 2023

We couldn't be more excited about the [RSAC 2023 theme: Stronger Together](#).

In the cybersecurity industry, no one goes it alone. Instead, we build on each other's diverse knowledge to create the next breakthrough—exchanging ideas, sharing our success stories, and bravely examining our failures.

RSA Conference 2023. Stronger Together.

[REGISTER NOW](#)



## Agenda & Sessions

Join cybersecurity leaders and peers as we explore our critical role in ensuring a more secure future. Access expert-led sessions, Keynotes, in-depth Trainings, and more.

[EXPLORE NOW](#)



### Sessions

With over 500 traditional and interactive sessions covering a wide range of topics, you'll learn about the latest trends, threats, and solutions that you can apply right away in your job.

[LEARN MORE](#)



### Keynotes

Hear from an inspiring lineup as they share their wealth of knowledge regarding cybersecurity trends and best practices.

[LEARN MORE](#)



### Trainings\*

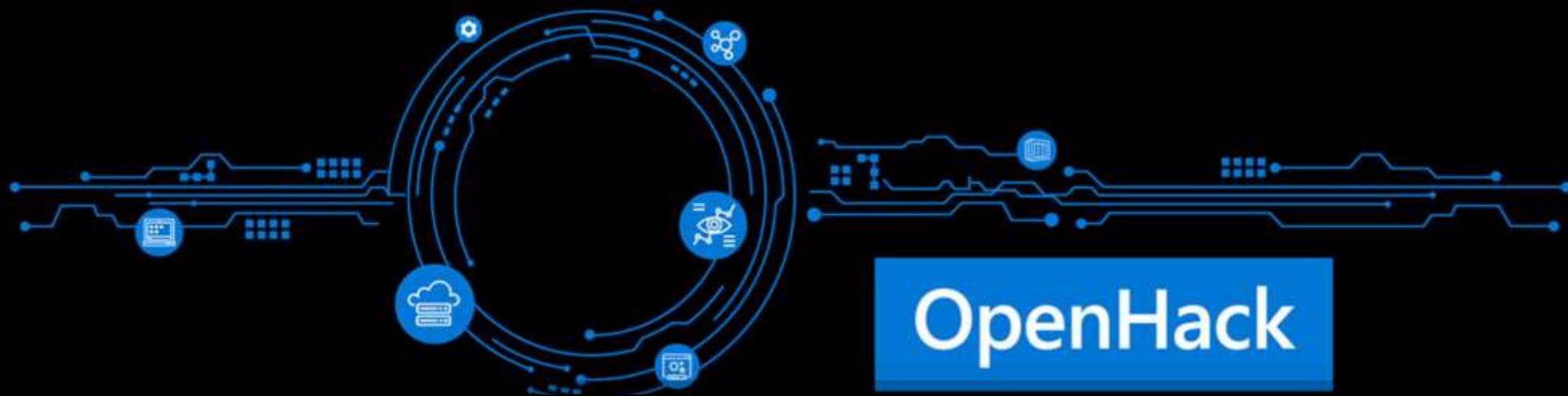
Expand your cybersecurity knowledge through these hands-on, interactive training sessions run by CSA, FAIR Institute, (ISC)2, and InfraGard National Members Alliance.

\*Available at an additional cost.

[LEARN MORE](#)



 Microsoft

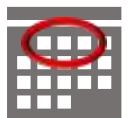


## What is OpenHack?

Microsoft OpenHack is a developer-focused engagement that connects development teams (Open) with experts to tackle a series of real-world challenges through hands-on experimentation in person and online.

OpenHack provides a unique and fun upskilling experience for Microsoft employees, customers and partners. Participants work together in teams to complete challenges that increase in complexity and are actively engaged, requiring deep collaboration, as they learn together.

Dates	Topic	Description	Delivery	Registration	Cloud Skills Challenge
Apr. 25-27, 2023	AI Powered Knowledge Mining	AI-Powered Knowledge Mining OpenHack enables developers to add intelligent search capabilities to their applications and services, leveraging artificial intelligence to extract meaningful results from data.	Virtual	<a href="#">Register</a>	<a href="#">Sign up</a>
May. 2-4, 2023	Security, Compliance, and Identity	Participants will establish and defend baseline security and compliance configurations for organizations using Microsoft cloud services. This will be done with Microsoft Security and Compliance tools and recommended security best-practices.	Virtual	<a href="#">Register</a>	<a href="#">Sign up</a>



**Microsoft 365  
CONFERENCE**

Microsoft Viva  
Microsoft Teams  
Microsoft SharePoint  
Microsoft Power Platform

2023

May  
2 - 4

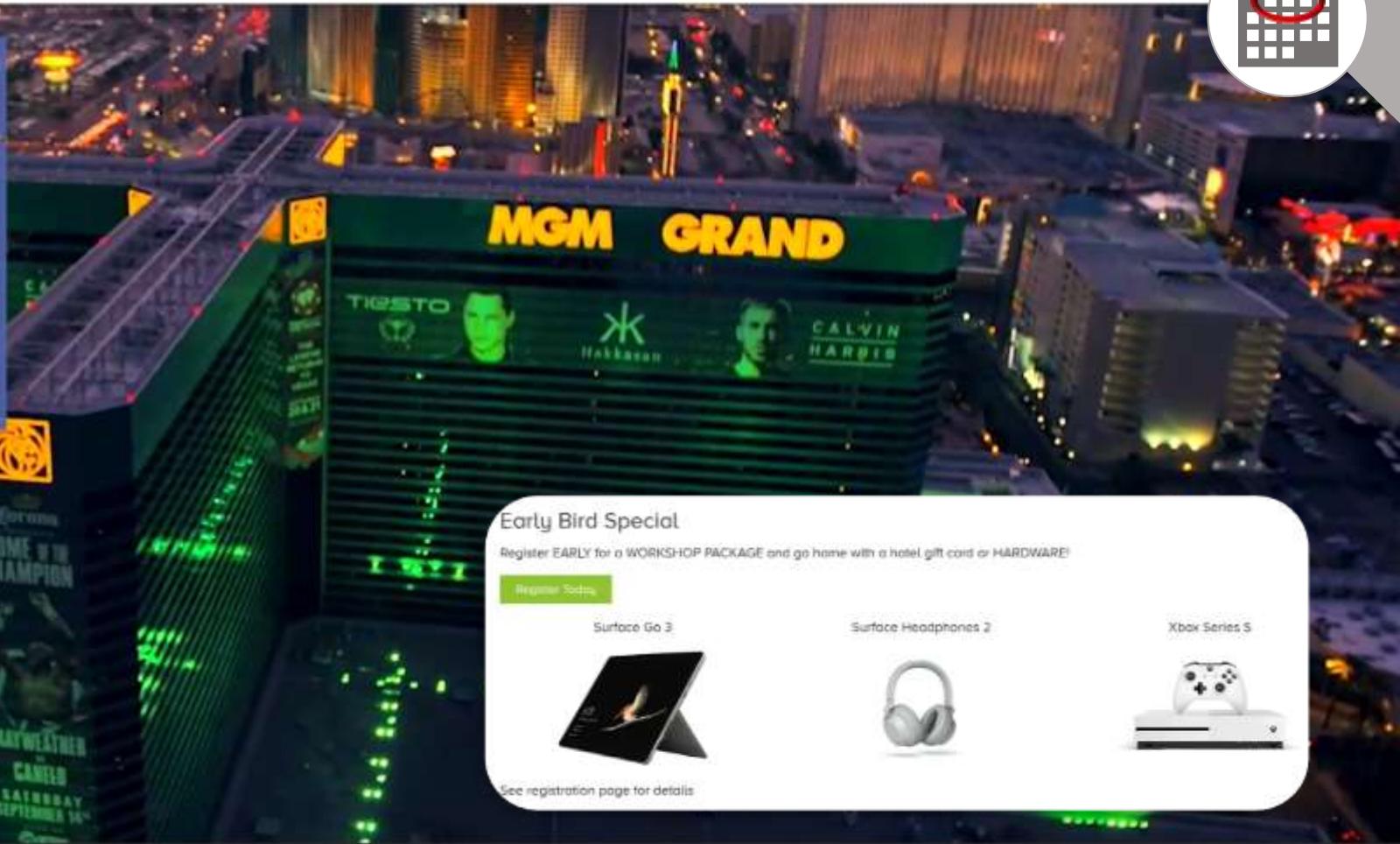
📍 MGM Grand Las Vegas, NV

Workshops

Apr. 30th, May 1st & 5th

REGISTER

BOOK HOTEL



OneDrive

Microsoft Stream

Power Apps

Power Automate

Power BI

Microsoft 3

SPEAKERS

150

SESSIONS

150

WORKSHOPS

18

EXHIBITORS

50



# Microsoft Build

**Global digital event**  
May 23–24, 2023 PDT

**Seattle in-person**  
Pre-Day workshops: May 22, 2023 PDT  
Event dates: May 23–25, 2023 PDT

[Register now](#)



**For developers, by developers**

Join Satya Nadella, Chairman and Chief Executive Officer, along with Microsoft, partner, and industry experts for an all-new Microsoft Build experience and get ready to dream big.



## Seattle in-person

Pre-Day workshops: May 22, 2023 PDT  
Event dates: May 23–25, 2023 PDT

Be in the room for live keynotes and advanced sessions and demos covering the latest technologies and developer tools. Take advantage of exclusive connection opportunities that make it easy to find and meet with experts and peers. Add a Pre-Day to maximize your experience.

[Get details >](#)



## Global digital event

May 23–24, 2023 PDT

Access the catalog of expert-led sessions during the event at no cost when you register to attend digitally. Watch the live broadcast of keynotes and interactive sessions as they are presented and engage with speakers and peers in real time.

[Learn more >](#)

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.



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

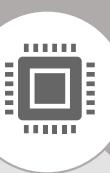
Check out the full lineup of upcoming event experiences to help you grow your skillset and community.

# Updates of Security and Compliance



# Monitoring Global Threats: Microsoft

Microsoft Security Response Center



## Global threat activity

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

### Most affected industries

Reported enterprise malware encounters in the last 30 days

#### ⚡ Power and utilities

Show all industries >

Devices with encounters:

122,403 (1.25%)

April 18, 2023 • 7 min read

### Microsoft shifts to a new threat actor naming taxonomy

Microsoft is excited to announce that we are shifting to a new threat actor naming taxonomy aligned to the theme of weather. The complexity, scale, and volume of threats is increasing, driving the need to reimagine not only how Microsoft talks about threats but also how we enable customers to understand those threats quickly and with clarity.

Power and utilities

#### Top threats:

Adware:Win32/Qjwmonkey  
BrowserModifier:JS/NeoreblamyExtension  
BrowserModifier:Win32/CNNIC  
Exploit:MacOS/CVE-2022-46689.A!MTB  
PUAMiner:Win32/CoinMiner

April 18, 2023 • 14 min read

### Nation-state threat actor Mint Sandstorm refines tradecraft to attack high-value targets

Today, Microsoft is reporting on a distinct subset of Mint Sandstorm (formerly known as PHOSPHORUS), an Iranian threat actor that specializes in hacking into and stealing sensitive information from high-value targets. This subset is technically and operationally mature, capable of developing bespoke tooling and quickly weaponizing recently disclosed vulnerabilities.

## Worldwide

**87,751,862 devices with encounters**

#### Top threats:

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

May 4, 2023 • 6 min read

### How Microsoft can help you go passwordless this World Password Day

Learn how guessing, replay, phishing, and multifactor authentication fatigue attacks demonstrate the ongoing vulnerability of passwords, and why going passwordless makes your organization more secure while improving user experience.

Select a region ▾

April 17, 2023 • 4 min read

## See product news and on-demand sessions from Microsoft Secure

Microsoft Secure on March 28, 2023, was a major success, thanks to more than 51,000 virtual attendees. It's not too late to watch a session you missed. Watch on-demand.

[Read more >](#)

April 24, 2023 • 6 min read

### Getting started with the CDMC framework—Microsoft’s guide to cloud data management

Learn how Cloud Data Management Capabilities (CDMC) certification can build trust with your customers and provide a standard for data governance and controls for managing sensitive data at scale.

April 20, 2023 • 4 min read

### Microsoft Entra delivers 240 percent ROI, according to new Forrester study

Learn why Microsoft Entra delivers 240-percent ROI—get key benefits and real-world learnings from adopters across the financial, high-tech, and manufacturing sectors.

April 27, 2023 • 6 min read

### Why you should practice rollbacks to prevent data loss in a ransomware attack

Tanya Janca, Founder and Chief Executive Officer of We Hack Purple, shares insights on application security and offers strategies to protect against data loss from ransomware attacks.



## Microsoft Security Copilot: Empowering defenders with AI

April 26, 2023 • 3 min read

### Healthy security habits to fight credential breaches: Cyberattack Series

This is the second in an ongoing series exploring some of the most notable cases of the Microsoft Incident Response Team. In this story, we'll explore how organizations can adopt a defense-in-depth security posture to help protect against credential breaches and ransomware attacks.

May 3, 2023 • 4 min read

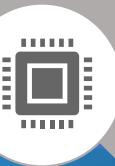
### Forrester names Microsoft a Leader in 2023 Infrastructure-as-a-Service Platform Native Security report

Forrester recognizes Microsoft's strong vision and significant investments in Infrastructure-as-a-Service Platform Native Security offerings.

April 24, 2023 • 7 min read

### Stay compliant and protect sensitive data with Zero Trust security

Learn how to secure data and identities and meet compliance requirements with a comprehensive Zero Trust approach.





# Microsoft 365 update information

# What's New in Microsoft 365

M365 Blog and Microsoft-365 Product Blog :: Covering Office 365, Enterprise Mobility + Security and Windows ::

- ❖ [Microsoft 365 Copilot Early Access Program](#)
- ❖ [Copilot in Microsoft Viva](#) – Boosting engagement and performance
- ❖ [Cloud.Microsoft](#): New unified domain for M365 Apps and Services
- ❖ [Next Wave AI Innovation in Bing and Edge](#)
- ❖ [Modernizing Authentication Management](#)
- ❖ [New Content Management and Security in SharePoint](#)
- ❖ [M365 Admin Monthly Updates](#): Case Study, WTI Special Report, ...
- ❖ [Accessibility Baseline](#) added to Apps Admin Center and Cloud Policy
- ❖ [New API to access Microsoft 365 Cloud Emissions Data](#)

What's new in your favorite Microsoft 365 app

8 min read

**Microsoft 365 innovations across AI, payments, and collaboration tools help small and medium businesses grow**

From the rise of remote work to the emergence of AI, SMBs are poised to benefit greatly from a new generation of technology to help grow and scale businesses. Read on to learn more about new investments Microsoft is making to help SMBs achieve more than ever before.

4 min read

**Microsoft Designer expands preview with new AI design features**

Today, we're excited to announce we're removing the waitlist and adding an expanded set of features to the Microsoft Designer preview. With new AI technology at the core, Microsoft Designer simplifies the creative journey by helping you get started quickly, augment creative workflows, and overcome creative roadblocks.

8 min read

**From Copilot in Microsoft Viva to the new Intune Suite—here's what's new in Microsoft 365**

Discover the latest in Microsoft 365, including Copilot in Microsoft Viva, Microsoft Viva Glint, Windows 365 Frontline, and Microsoft Intune Suite.

6 min read

**Introducing the Microsoft 365 Copilot Early Access Program and new capabilities in Copilot**

In March, we introduced Microsoft 365 Copilot—your copilot for work. Today, we're announcing that we're bringing Microsoft 365 Copilot to more customers with an expanded preview and new capabilities.

# 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: End user can report from shared/delegate mailbox	Rollout Start: May 2023
Microsoft Teams: Call Health Panel for VDI	Rollout Start: May 2023
Microsoft Purview compliance portal: Data Lifecycle Management - Auto-labeling of cloud attachments	Preview Available: July 2023 Rollout Start: April 2023
Microsoft Purview compliance portal: eDiscovery (Premium) - Discover only the document version that has been shared	Preview Available: July 2023 Rollout Start: April 2023
Microsoft Teams: Approvals - Sequential Approvers Support	Rollout Start: April 2023
Microsoft Purview compliance portal: Information Protection - Application of a "default label" to an unlabeled file uploaded to a SharePoint Online document library	Preview Available: July 2023 Rollout Start: April 2023
Microsoft Viva: Display connected topics on people profile cards	Rollout Start: April 2023
Microsoft Defender for Office 365: Within 4 hours option for notifications	Preview Available: November 2022 Rollout Start: April 2023
Microsoft Teams: New Files App in Teams	Rollout Start: April 2023
Microsoft Defender for Office 365: Easier to sort and filter messages reported by users	Rollout Start: April 2023
Outlook: Labeling email from attachments' label	Preview Available: March 2023 Rollout Start: April 2023
Outlook:[Android] Ability to add an email as an attachment to another email while composing	Rollout Start: April 2023
Microsoft Teams: Virtual appointment - a new Teams Meeting type for B2C meetings	Preview Available: February 2023 Rollout Start: April 2023
Microsoft Purview   Information Protection: Configure labels independently on files and emails	Preview Available: March 2023 Rollout Start: April 2023
Microsoft Teams: Geo filtering for Teams apps	Rollout Start: April 2023
Microsoft 365 admin center: Windows 365 cloud PC advanced deployment guide	Rollout Start: April 2023
Microsoft Intune: Windows 11 update readiness reports	Preview Available: June 2022 Rollout Start: April 2023
Microsoft Purview compliance portal: Data Lifecycle Management - Cloud attachments support file versions shared as links	Preview Available: March 2023 Rollout Start: April 2023
Microsoft 365 Copilot: AI writing tools update pro in the Feedback portal Due to some issues in the build, the	Preview Available: March 2023 Rollout Start: April 2023



# Microsoft Copilot : AI for every line of business



News Microsoft 365 Enterprise · 7 min read

## Introducing Microsoft 365 Copilot—A whole new way to work

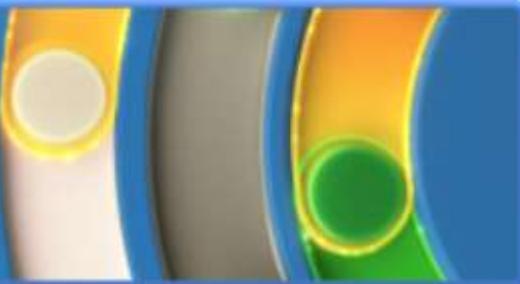
By Colette Stallbaumer, General Manager, Microsoft 365 and Future of Work

### Announcing Copilot in Viva Engage

[Jason Mayans](#) on Mar 20 2023 09:00 AM

Copilot in Viva Engage will help inspire and aid leaders to connect with their employees more effectively through assist...

## Microsoft Security Copilot: Empowering defenders with AI



Introducing Microsoft Dynamics 365 Copilot, the world's first copilot in both CRM and ERP, that brings next-generation AI to every line of business

Mar 6, 2023 | Charles Lamanna, CVP, Business Applications and Platform

### Microsoft 365 Copilot in OneNote

## Power Platform is leading a new era of AI-generated low-code app development

March 16, 2023 • 3 min read

Share ▾

News Microsoft Teams Enterprise 10 min read

## Microsoft Teams Premium: Cut costs and add AI-powered productivity

By Nicole Herskowitz, Vice President, Microsoft Teams



# Microsoft AI

## Boost creativity and work more productively

Spend less time on busy work and more time creating, collaborating, and innovating with next-gen AI embedded in the Microsoft 365 apps you use every day.

- Jumpstart the creative process—Copilot in Word writes, edits, summarizes, gives suggestions, and creates right alongside you.
- Turn existing Word documents into presentations, start a new presentation from a simple prompt or outline, or find the best place for impactful imagery with Copilot in PowerPoint.
- Get help drafting emails, summarizing threads, and catching up on important conversations with Copilot in Outlook.

## Uncover and respond to threats faster

Catch subtle threats across your security stack early and get intelligent insights informed by 65 trillion daily signals.

- Identify an ongoing attack, assess its scale, and get instructions to begin remediation.
- Evaluate if your organization is vulnerable to known exploits and learn how to fix the exploits before they become problems.
- Summarize any event, incident, or threat in minutes in a customizable, ready-to-share report.

## Make meetings more personalized and intelligent

Make the meetings you attend—and miss—more productive with intelligent features from Microsoft Teams Premium. It's like having a virtual assistant attend every meeting:

- Get caught up quickly with personalized recording highlights and automatically generated meeting chapters.
- Help reduce language barriers with live translated captions.
- Stay informed with follow-up plans with intelligent meeting recaps, coming soon.

## Code in dozens of languages using natural prompts

Write better code, faster with GitHub Copilot—the world's first at-scale AI developer tool. GitHub Copilot draws context from a developer's code to suggest new lines, entire functions, tests, and even complex algorithms—in real-time, right in the editor.

- Turn natural language prompts into code suggestions.
- Quickly discover alternative ways to solve problems and write tests.
- Code confidently—even in unfamiliar territory.

## Get answers to your most challenging data questions

Get help making the right decisions and taking the right actions by using AI to illuminate hidden patterns, opportunities, and anomalies in your data—without needing to create your own custom AI models. With the AI capabilities built into Power BI, even non-technical employees can easily:

- Detect fluctuations and other data anomalies.
- Spot trends that may have been missed otherwise.
- Get visual answers to their toughest data questions using natural language.

## Spend more time selling, less time seeking data

Free up sellers to spend more time on what matters most: making meaningful human connections. With the AI-powered capabilities in Microsoft Viva Sales, your team can drastically reduce the time it takes to communicate with prospective customers.

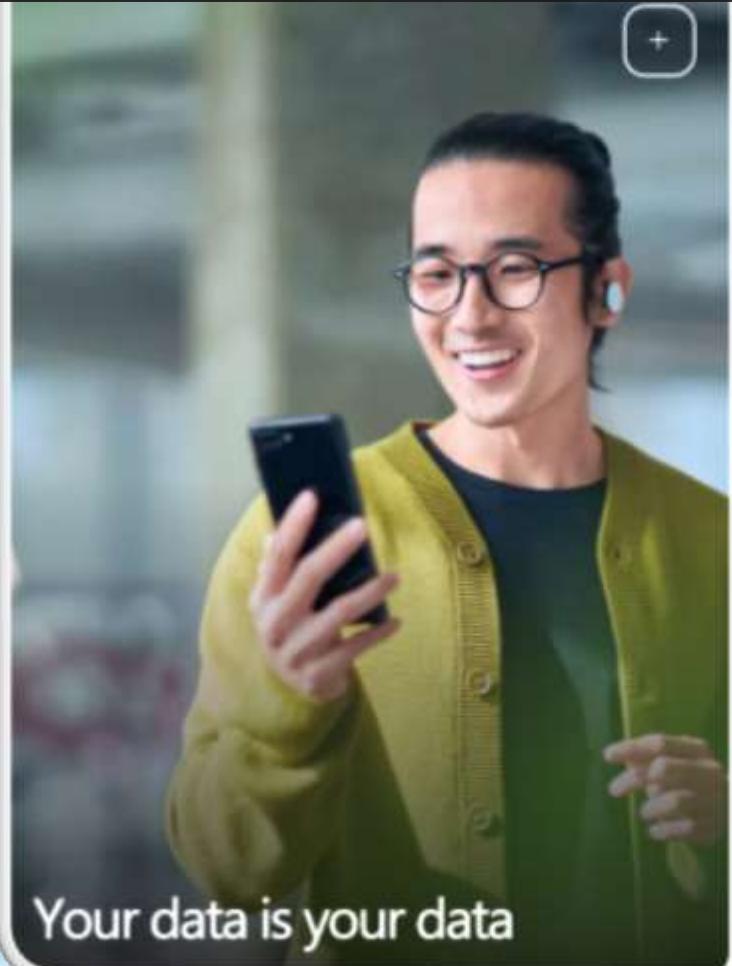
- Take advantage of AI-generated notes and action items from meeting summaries.
- Spend less time searching for sales and customer data from colleague and databases.
- Reply to inquiries and create proposals faster with AI-generated email that include data relevant to the recipient, such as pricing, promotion, and deadlines.

# Microsoft Cloud runs on Trust



## Responsible AI

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



Your data is your data

A woman with curly hair looking upwards. The phone has a white plus sign icon in its top right corner.

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 person with short hair smiling. The phone has a white plus sign icon in its top right corner.

Your data is protected at every step

# Microsoft Teams Blog:



What's New in Microsoft Teams | April 2023

## What's New in Microsoft Teams | April 2023

Steve Stein on May 01 2023 10:00 AM

Welcome to the April 2023 edition of What's New in Teams! Following a month of exciting announcements in March, we are n...

### New for This Month:

- [New Teams Desktop App](#)
- [Automatic lowering of a user's hand after speaking](#)
- [Green Screen in Teams meetings](#)

### Management:

- [App Geo Fencing](#)
- [Auto Install Approved Apps](#)

### Security:

- [Safer deployment with MSIX](#)
- [Faster updates with Edge Webview2 engine](#)
- [Better security on the web with Trusted Types](#)

### Chat and Collaboration:

- [Attach cloud files in chat and channel from Teams mobile](#)

Microsoft Teams

Options for enabling external collaboration



Establish seamless and secure collaboration across...

fmorgan937 on May 09 2023 08:00 AM

When organizations embrace a culture of collaboration, they often benefit from stronger relationships, more informed dec...

Signature Microsoft Teams Rooms: A more inclusive and...

Matt.Taylor on Apr 05 2023 08:00 AM

Learn how Signature Microsoft Teams Rooms technology can improve the hybrid meeting experience for both in-office and re...

### Rooms and Devices:

- [Federated Group Calling for GCCH and DoD](#)
- [Audiocodes RXV81 video collaboration bar for Microsoft Teams on Android](#)
- [Yealink Meeting Board Camera 6X for Microsoft Teams Rooms on Android](#)
- [Bose Videobar VB-S for Microsoft Teams Rooms on Windows](#)
- [Q-SYS Certified Teams Rooms Bundle](#)
- [Lenovo ThinkVision MC60 Monitor Webcam](#)



What's new for security in the new Microsoft Teams?

Andrey\_Belenko on Apr 25 2023 08:00 AM

Microsoft has recently announced a new version of the Microsoft Teams desktop app. For an overview of architectural chan...



Celebrate success using Together Emojis in Microsoft Teams

SamCundall on Apr 20 2023 08:00 AM

We're celebrating #NationalHighFiveDay today by introducing an exciting and unique way to interact with your team member...

# Multi-Tenant Multi-Account: Collaboration across complex organizations



## Add another Teams account

With Multi-Tenant Multi-Account (MTMA) support in the new Teams, you can sign into multiple work or school accounts (or as a Guest in other organizations) without signing in on multiple web browsers.

When you add accounts to your Teams desktop app, you can:

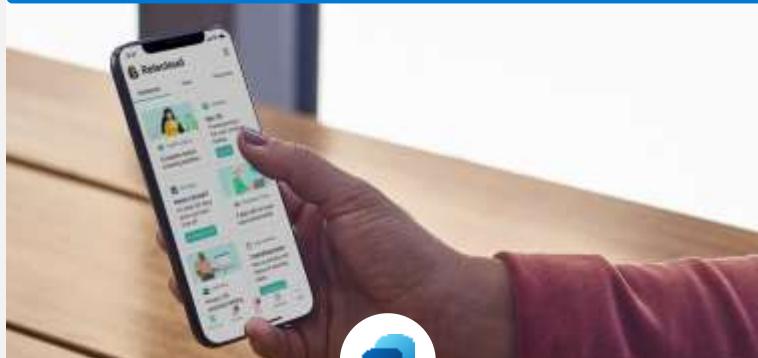
- Receive real-time notifications from all the accounts (and all associated organizations);
- Participate in chats, meetings, and calls across multiple accounts and organizations without dropping from a call or meeting to switch accounts/orgs, and
- Set your status for each account and organization individually.

To add another account, select your profile picture at the top right of the new Teams, then select **Add another work account**.

Multi-tenant (top), multi-account

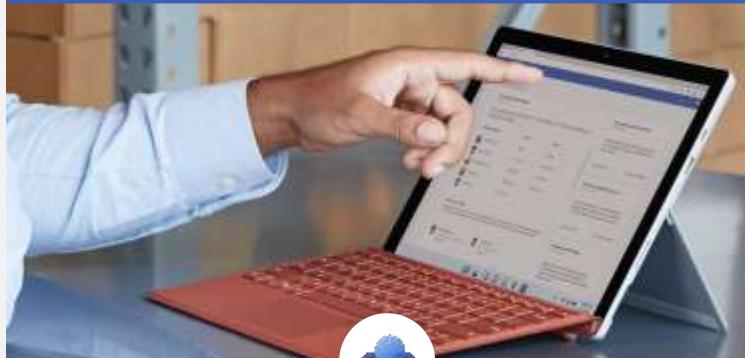
# Microsoft Viva: & Viva Blog:

# The employee experience platform for the new world of work



## Viva Connections

Engaged & Informed



## Viva Insights

Productivity & Wellbeing



## Viva Topics

Knowledge & Expertise



## Viva Sales

Empower & Understand



## Viva Learning

Growth & Development



## Viva Goals

Purpose & Alignment



## Viva Engage

Culture & Communications

# Microsoft Viva: & Viva Blog:

## The employee experience platform for the new world of work



[Unblock Viva deployment and adoption in your organization](#)

[NachoMSFT](#) on Apr 21 2023 12:12 PM

Hosted by the NDA Viva Customer Connection Program, the Getting Started with Viva Series is a non-NDA effort led by Micr...

[Microsoft Viva Topics](#)

[Microsoft Viva Insights](#)

[Microsoft Viva Connections](#)

[Microsoft Viva Learning](#)



[Microsoft Viva: Reimagine the employee experience with...](#)

[JillArmour](#) in [Partner news](#) May 08 2023 04:26 PM

The way we work has changed, requiring a new approach to support evolving employee demands...



[Microsoft Viva Goals](#)



[Microsoft Viva Engage](#)



[Microsoft Viva Sales](#)



[Invitation for private preview – new data-import featur...](#)

[lilyolason](#) in [Viva Insights Blog](#) May 05 2023 11:51 AM

We're building two new data-import features in Viva Insights, and we want to invite you to...

# Microsoft Power Platform



## 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



**Data  
connectors**



**AI Builder**



**Dataverse**

# Power Platform and Dynamics



Optimize experiences for sellers and marketers with Dynamics 365 >

April 27, 2023 • 4 min read

By [Jayne Mesecher](#), Director of Product Marketing

You can do more with less, utilizing the power of AI to optimize experiences for your sellers, marketers, and data analysts so they can deliver better experiences for your customers. [Read more](#)



## Microsoft Dynamics 365 Copilot at Gartner Supply Chain Symposium Xpo™ 2023 >

May 4, 2023 • 5 min read

By [Alexis Goodrich](#), Product Marketing Manager

To truly deliver a proactive, resilient supply chain, Chief Supply Chain Officers (CSCOs) need a clear digital transformation strategy that builds on top of existing investments in data to uncover new insights. [Read more](#)



## Applying next-generation AI to the Microsoft Supply Chain Platform >

April 20, 2023 • 11 min read

By [Ray Smith](#), Vice President, Supply Chain

For more than two decades, customer relationship management (CRM) and enterprise resource planning (ERP) software have been defined by manual entry and high-touch data processes. Since then, businesses have made strides in automating many manual transactions through various means but have largely reached a plateau. [Read more](#)

Roadmaps and Release plans:



- ❖ [Power BI Blog](#)
- ❖ [PowerApps Blog](#)
- ❖ [Power Automate Blog](#)
- ❖ [Power Virtual Agents Blog](#)

- [How to add Copilot to your Power Apps | GPT-based User Controls](#)
- [Copilot in Power Virtual Agents: Next-generation AI assists bot building with natural language](#)
- [AI Builder and Copilot in Power Automate](#)
- [Azure OpenAI Models in Power Automate](#)
- [Next-generation AI Copilot in Power Apps : Transforming and exponentially speeding low-code development](#)
- [Microsoft Purview Data Loss Prevention policies for Power BI :: Generally Available](#)
- [Power Apps Feature Updates : April 2023 Edition](#)
- [Connecting from Power BI to ADX on a private end point](#)
- [Enhancing Power Platform Development with VS Code and GitHub Codespaces Integration](#)

Send an email to responder when response submitted in Microsoft Forms.

By Microsoft Power Automate Community

Automated 309592

Create a task in Planner from Microsoft Forms and post message in Teams

By Microsoft Power Automate Community

Automated 123016

Save Outlook.com email attachments to your OneDrive

By Microsoft Power Automate Community

Automated 196821

Start an approval when a file is added to Sharepoint

By Microsoft

Automated 100040

# Developer and GitHub

## GitHub Blog and Changelog

- GitHub code search :: generally available
- GitHub Actions Deployment Protection Rules :: public beta
- CLI tricks every developer should know
- GitHub Actions – Actions Runner Controller :: Public Beta
- Secret scanning's push protection for GitHub Advanced Security :: Generally Available
- New delimiter syntax for inline mathematical expressions
- Grafana Labs is now a GitHub secret scanning partner
- GraphQL improvements for fine-grained PATs and GitHub Apps



## Microsoft Developer Blogs:

- OpenAI API endpoints
- Building Go applications with the Microsoft Graph Go SDK :: Generally Available
- Getting Started with the Power Platform CLI
- JetchatGPT improvements: error handling and animations

## How companies are boosting productivity with generative AI

Explore how generative AI coding tools are changing the way developers and companies build software.



Chris Reddington May 9, 2023

With AI at every step, we will realize the 10X developer

### Web Summit Rio 2023: Building an app in 18 minutes with GitHub Copilot X

Github CEO Thomas Dohmke demonstrated the power of GitHub Copilot X live on stage.

Thomas Dohmke May 5, 2023

## Learning AI with GitHub Copilot

carlottacaste in Educator Developer Blog May 09, 2023 12:00 AM

Did you know that you can learn AI with the help of an AI assistant? Discover how this is ...

## How to fix a ReDoS

Code scanning detects ReDoS vulnerabilities automatically, but fixing them isn't always easy. This blog post describes a 4-step strategy for fixing ReDoS bugs.



Kevin Bockhouse May 9, 2023

## Building a culture of innovation in your business with GitHub

Consider the typical software development practices in an organization. Projects are commonly closed, and causes friction across engineering teams. But open source communities work asynchronously, openly, remotely and at global-scale. What if our internal teams could reuse those same practices?

Chris Reddington May 8, 2023



## Game Bytes • May 2023

Game Bytes is our monthly series taking a peek at the world of gamedev on GitHub—featuring game engine updates, game jam details, open source games, mods, maps, and more. Game on!

Lee Reilly May 10, 2023



# Office Developer Blogs and Microsoft 365 Dev Center



## Build apps for Microsoft Viva

Starting with the Viva Connections toolkit (available now) and APIs for Viva Topics, Viva Insights and Viva Learning (coming soon), grow your customer reach with an open and extensible platform.

[Learn more about Viva Connections](#)[View infographic >](#)

## Innovate with collaborative apps

Build collaborative apps for Microsoft 365 and Microsoft Teams that connect people, data, and processes to help users thrive in the hybrid workplace.

[Read blog](#)

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

- [Updates to the Microsoft 365 Developer Program](#)
- [Build once, deploy efficiently, connect across Microsoft 365](#)
- [Microsoft Entra Identity Developer Newsletter](#)
- [Designing PowerShell For End Users](#)
- [Create a Teams tab and Outlook Add-in with a Hello World project](#)
- [Streamline your SharePoint experience with the new Microsoft Graph SharePoint Admin API](#)
- [Supercharge your Teams app development: New integration for Teams Toolkit & Developer Portal](#)

### Try the instant sandbox

Join our Microsoft 365 Developer Program to get a free, renewable 90-day developer subscription to develop Teams solutions.

[Join today >](#)

### Enabling billing for Microsoft Teams APIs in Microsoft Graph

[View blog >](#)

## Office Scripts

Easily automate your day-to-day tasks with **Office Scripts in Excel on the web**. Get started automating today!

[Learn more >](#)[Try sample scripts >](#)

## Sample Solution Gallery

Explore our sample gallery filled with solutions that integrate seamlessly to the Microsoft products you use the most.

[Get Script Lab for Excel, PowerPoint, and Word](#)[Get Script Lab for Outlook](#)

### Explore Microsoft 365 Platform Learning Paths

Learn new skills to develop on the Microsoft 365 platform. Explore our learning paths.

[Get started >](#)

# Azure



# Azure Updates

## Azure Blog



### VMs, Features, & Announcements

- [GPT-4 in Azure OpenAI Service](#) :: Preview
- [Insights from the 2023 Open Confidential Computing Conference](#)
- [Azure CNI Overlay in Azure Kubernetes Service](#)
- [Inbound ICMPv4 pings are now supported on Azure Load Balancer](#) :: Generally Available
- [AlwaysServe for Azure Traffic Manager](#) :: Public Preview
- [Azure IoT Edge supports Red Hat Enterprise Linux 9](#) :: Generally Available
- [4 cloud cost optimization strategies with Microsoft Azure](#)
- [Project Health Insights – AI for Health data](#) :: Preview
- [Ebsv5 and Ebdsv5 NVMe-enabled VM sizes](#) :: Generally Available
- [Azure Event Hubs Dedicated self-serve scalable clusters for mission critical Kafka, AMQP and HTTPs workloads](#) :: Generally Available

### Data, AI, Security, & Availability

- [Scale improvements and metrics enhancements on Azure's regional WAF](#) :: Generally Available
- [Azure Cosmos DB for PostgreSQL Data Encryption with Customer Managed Keys](#) :: Public Preview
- [Azure DNS Private Resolver is available in 8 additional regions](#) :: Generally Available
- [Retirement of SQL Server Native Client \(SNAC\) OLE DB provider for linked servers in Azure SQL Managed Instance](#) :: Retirement
- [Portal for Azure Key Vault Managed HSM](#) :: Generally Available
- [Azure Backup Server V4](#) :: Generally Available

### Operations & Benefits

- [Azure Savings Dashboard](#)
- [Palo Alto Networks SaaS Cloud NGFW Integration with Virtual WAN](#) :: Public Preview
- [Cloud Next-Generation Firewall \(NGFW\) Palo Alto Networks - an Azure Native ISV Service](#) :: Preview
- [Microsoft Cost Management Updates – April 2023](#)
- [Automatic Scaling for App Service Web Apps](#) :: Preview

AI + Machine Learning + 7 min read.

### What's new in Azure Data & AI: Helping organizations manage the data deluge >

Jessica Hawk

Corporate Vice President, Data & AI

Whether you have large, complex AI workloads or you simply want to make the most of intelligent capabilities in your existing applications, Microsoft and our partners are ready to help you accelerate your productivity with data and AI.

### The era of AI: How the Microsoft Cloud is accelerating AI transformation across industries

Apr 24, 2023 | [Judson Althoff - Executive Vice President and Chief Commercial Officer](#)



# Azure Services Directory



## Azure AI

Drive business results and improve customer experiences with AI solutions

### Azure AI

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



## Azure Cognitive Services

Add cognitive capabilities to apps with APIs and AI services

### Azure Cognitive Services

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



## Azure OpenAI Service

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

### Azure OpenAI Service : Updates

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

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



## The era of generative AI: Driving transformation in banking >

May 4, 2023 • 5 min read

By [Bill Borden](#), Corporate Vice President of Worldwide Financial Services, Microsoft

Empowering our customers with intelligent banking capabilities is core to our mission, and we are excited to bring generative AI innovations to them through our Azure OpenAI Service and our copilot offerings. [Read more](#)



## 3 strategies for governing Microsoft Cloud risk in financial services >

May 5, 2023 • 5 min read

By [Tom Deprins](#), Program Manager—Microsoft Global Financial Services Regulatory Compliance

Microsoft makes a significant investment to help customers get the assistance they need to optimize cloud risk assessments at scale. [Read more](#)



## 3 ways Microsoft empowers defense leaders to turn data into decisions >

April 25, 2023 • 4 min read

By [Jeffrey Pearson](#), Program Manager, Worldwide Public Sector, Defense and Intelligence, Microsoft

[Tim Tieng](#), Business Program Manager, Worldwide Public Sector, Defense and Intelligence, Microsoft

Here are three key ways that defense and intelligence leaders can leverage the Microsoft Cloud capabilities to make better data-driven decisions faster and more efficiently during every phase of the mission. [Read more](#)



## New era of value realization is here —put your data to work with AI >

April 20, 2023 • 6 min read

By [Anya Minbiole](#), Business Strategy Leader, Retail and Consumer Goods, Microsoft

[Felice Miller](#), Business Strategy Leader, Retail and Consumer Goods, Microsoft

There is so much data and it is changing so quickly that finding patterns and insights and putting them to work in a timely fashion is not possible without AI. See how Microsoft consumer goods solutions can help. [Read more](#)



## Microsoft highlights innovation in power and utilities >

May 4, 2023 • 5 min read

By [Hanna Greene](#), Worldwide Power and Utilities Industry Leader

As we head into summer, I'm excited to share highlights from this past spring including a large language models (LLM) use case at Ontario Power Generation, key takeaways from DISTRIBUTECH 2023, and how our partners are restoring power to communities impacted by extreme weather events. We also launched two new video series with recent expert [Read more](#)

# Microsoft Cloud for Sustainability

Building a clean-energy future with your business



## Microsoft Sustainability Learning Center

Find detailed information about environmental sustainability topics and technologies. Browse videos, white papers, training, and other resources from Microsoft and industry experts.



### Sustainability

From orange farmer in Brazil to juice maker in Germany, making sustainability a winning game



Microsoft Cloud for Sustainability: Make significant progress faster with new, empowered features >

April 20, 2023 • 6 min read



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

With timely updates to Microsoft Cloud for Sustainability, organizations gain enhanced levels of insight (including Scope 3 waste data) plus new data access and management, reporting, and customization capabilities to help them make significant sustainability progress faster. [Read more](#)

### Preview features

We're expanding our capabilities around agriculture, carbon credit life cycles, new ways to access your Microsoft emissions data, and new water calculation capabilities. The following solutions are currently in preview:

- Allocations dashboard (Preview)
- Data approval management (Preview)
- Data Manager for Agriculture (Preview)
- Ecolab connector (Preview)
- Environmental Credit Service (Preview)
- Microsoft Cloud for Sustainability API (Preview)
- Microsoft Cloud for Sustainability product carbon footprint data model (Preview)
- Microsoft Cloud for Sustainability water data model (Preview)
- Microsoft Cloud for Sustainability waste data model (Preview)
- Water quality dashboard (Preview)
- Water quantity dashboard (Preview)



# 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 >](#)

### Energy efficiency training

Learn how increasing efficiencies and using less energy can help reduce your carbon emissions.

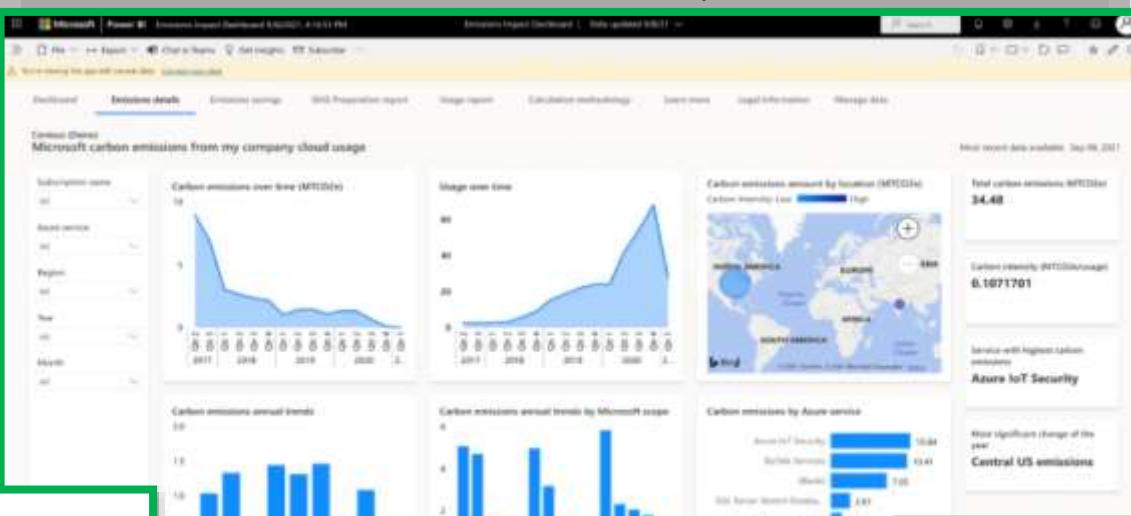
[Get started >](#)

## 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 >](#)



### Renewable energy procurement training

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

[Get started >](#)



## Using generative AI to imitate human behavior >

May 4, 2023

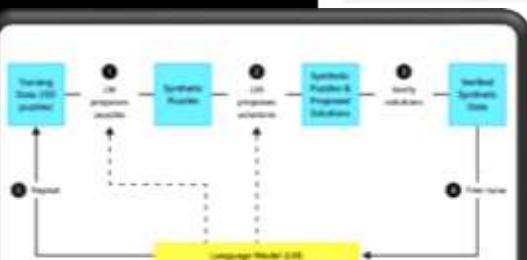
Diffusion models have been used to generate photorealistic images and short videos, compose music, and synthesize speech. In a new...



### Inferring rewards through interaction >

May 4, 2023 | [Jessica Maghakian](#), [Akanksha Saran](#), [Cheng Tan](#), and [Paul Mineiro](#)

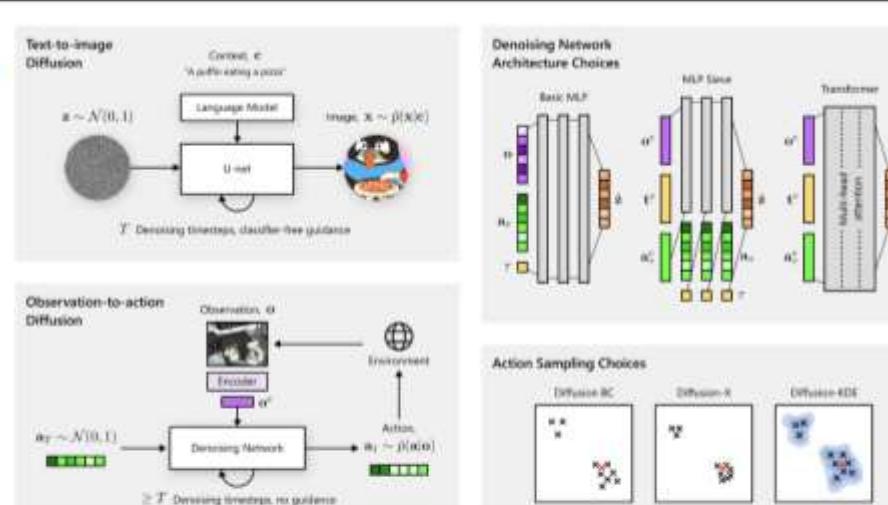
In reinforcement learning, handcrafting reward functions is difficult and can yield algorithms that don't generalize well. IGL-P, an interaction-grounded learning strategy, learns personalized rewards for different people in recommender system scenarios.



### AI self-play for algorithm design >

May 2, 2023 | [Adam Tauman Kalai](#) and [Patrick Haukezok](#)

Self-play has helped AI systems succeed in games like chess and Go. Can the same method help improve AI programming abilities? Using easy-to-check, hard-to-solve programming problems, researchers show AI can create, solve, and train on its own puzzles.



### Automatic post-deployment management of cloud applications >

April 18, 2023

In the first two blog posts in this series, we presented our vision for Cloud Intelligence/AIOps (AIOps) research, and scenarios where innovations in AI technologies can help build and operate complex cloud platforms and services effectively and efficiently at scale. In this blog post, we...



### TLA+ Foundation aims to bring math-based software modeling to the mainstream >

April 24, 2023

TLA+ is a high level, open-source, math-based language for modeling computer programs and systems—especially concurrent and distributed ones. It comes with tools to help eliminate fundamental design errors, which are hard to find and expensive to fix once they have been embedded in code or hardware...

# Microsoft Quantum Blog



## Blueprint to organize a quantum computing workshop

May 2, 2023



Fabrice Frachon

For many people, learning a new skill is easiest when it's a shared experience. Quantum computing workshops offer an interactive, structured and co-operative forum to jump start your quantum learning. But how do organize such an event? The Azure Quantum team frequently receives questions on how to organize quantum computing workshops, so ...

## Quantum Advantage Hope & Hype

### Quantum Advantage: Hope and Hype >

May 1, 2023 • 5 min read

By [Matthias Troyer](#), Technical Fellow and Corporate Vice President of Quantum at Microsoft

At Microsoft, we believe that it will take the world's collective genius to fully understand quantum computing. [Read more](#)

## JM Johnson Matthey

Inspiring science, enhancing life

### Microsoft and Johnson Matthey join forces to speed up hydrogen fuel cell innovation with Azure Quantum >

April 13, 2023 • 4 min read

By [Nathan Baker](#), Senior Director, Partnerships for Chemistry and Materials

Johnson Matthey and Microsoft Azure Quantum chemists have teamed up to drive new discoveries in sustainable energy. [Read more](#)

## We're on the path to quantum at scale

A quantum machine capable of solving many of the hardest problems facing humanity will ultimately require at least 1 million stable qubits that can perform 1 quintillion operations while making at most a single error. Microsoft is taking a unique approach by designing such a machine with a new type of qubit—a topological qubit. It's theorized to be more stable than any other qubit engineered to date, which means this quantum machine will be small enough to fit in a closet and fast enough to solve problems in days to weeks. Our recent physics breakthrough cleared a major hurdle and confirmed that we're on the right path to achieve quantum at scale.

# Showcase of the Month



# Microsoft Showcase Series



May 3, 2023 | Lukas Velush

## [The future of Group Member Management: How Microsoft is leading the way with automation](#)

Just as it is for everyone, maintaining accurate groups for email and apps such as Microsoft Viva and Microsoft Teams is challenging for us internally at Microsoft. Adding and removing employees from groups has been mostly a hand-cramping manual task, and this is especially true for large organizations like ours, where group membership management is...



May 3, 2023 | Inside Track staff

## [Creating a modern data governance strategy to accelerate digital transformation at Microsoft](#)

Data is the new currency of digital transformation. Whether it's providing new insights, improving decision making, or driving better business outcomes, enthusiasm for unlocking the power of data has never been greater. Internally at Microsoft, our data governance practices are essential in helping ensure that data at Microsoft is optimized for any use—enabling deeper insights...

## 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.

May 4, 2023 | Josh Krenz

## [New approach to IoT device integration enables employee experience at Microsoft](#)

Exciting employee experiences that drive productivity and support hybrid work are possible at Microsoft thanks to a broad network of internet of things (IoT) devices. Whether it be hotdesking, pathfinding, or locating an empty conference room, these experiences benefit productivity, access, system health, and a variety of other services across Microsoft's smart buildings. But with...



May 5, 2023 | Aleenah Ansari

## [Microsoft CISO Bret Arsenault provides practical advice to secure your hybrid workspace](#)

In episodes of the Security Unlocked podcast, Microsoft CISO Bret Arsenault discusses the biggest challenges in securing your hybrid workspace with industry peers from Microsoft, LinkedIn, Vodafone, and more. The episodes cover how security leaders are adjusting to the new normal of hybrid work. In each episode, Arsenault and his guest share practical tips and...

# 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.

The image displays a collection of dark blue, rounded rectangular cards representing Microsoft learning modules, arranged against a dark background. In the upper right, there is a stylized graphic of a human brain with various colored regions (red, blue, purple) connected by white lines, symbolizing thought and learning. The cards contain the following information:

- Microsoft Security, Compliance, and Identity Fundamentals:** Description: "Describe the concepts of security, compliance, and identity management." Type: LEARNING PATH. Duration: 43 min. Audience: Azure • Business User • Beginner. Rating: ★★★★ 4.8 (4.7K). Add button.
- Explore Microsoft Teams:** Type: MODULE. Duration: 49 min. Audience: Microsoft 365 • Administrator • Intermediate. Rating: ★★★★ 4.8 (4.7K). Add button.
- Get started with AI on Azure:** Type: MODULE. Duration: 34 min. Audience: Azure • AI Engineer • Beginner. Rating: ★★★★ 4.8 (4.6K). Add button.
- Introduction to Microsoft Power Platform:** Type: MODULE. Duration: 36 min. Audience: Microsoft Power Platform • Business Analyst • Beginner. Rating: ★★★★ 4.7 (24K). Add button.
- PL-900: Microsoft Power Platform Fundamentals:** Type: LEARNING PATH. Duration: 7 hr 5 min. Audience: Dynamics 365 • Business User • Beginner. Rating: ★★★★ 4.7 (24K). Add button.
- Introduction to Power BI:** Type: MODULE. Duration: 46 min. Audience: Microsoft Power Platform • Business Analyst • Beginner. Rating: ★★★★ 4.8 (13K). Add button.
- Write your first C# code:** Type: MODULE. Duration: 17 min. Audience: .NET • Developer • Beginner. Rating: ★★★★ 4.9 (20K). Add button.

**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 >](#)

### 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.

#### Microsoft Azure Virtual Training Day: AI Fundamentals

Learn how organizations use AI technology to solve real-world challenges and see how to build intelligent applications using Azure AI services.

Date & Time: Thu 01 Jun 2023, 01:00 PM - 04:30 PM

Timezone: EDT

Skill Level: Beginner

[Register >](#)

#### Microsoft Azure Virtual Training Day: Digitally Transform with Modern Analytics

Learn how to build an analytics solution using Azure Synapse Analytics.

Date & Time: Mon 05 Jun 2023, 01:00 PM - Tue 06 Jun 2023, 01:00 PM

Timezone: EDT

Skill Level: Advanced

[Register >](#)

#### Microsoft Azure Virtual Training Day: Linux OSS Database Migration

Learn how to migrate existing on-premises open source software (OSS) applications and workloads.

Date & Time: Mon 29 May 2023, 12:00 PM - Tue 30 May 2023, 12:00 PM

Timezone: EDT

Skill Level: Intermediate

[Register >](#)



# 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

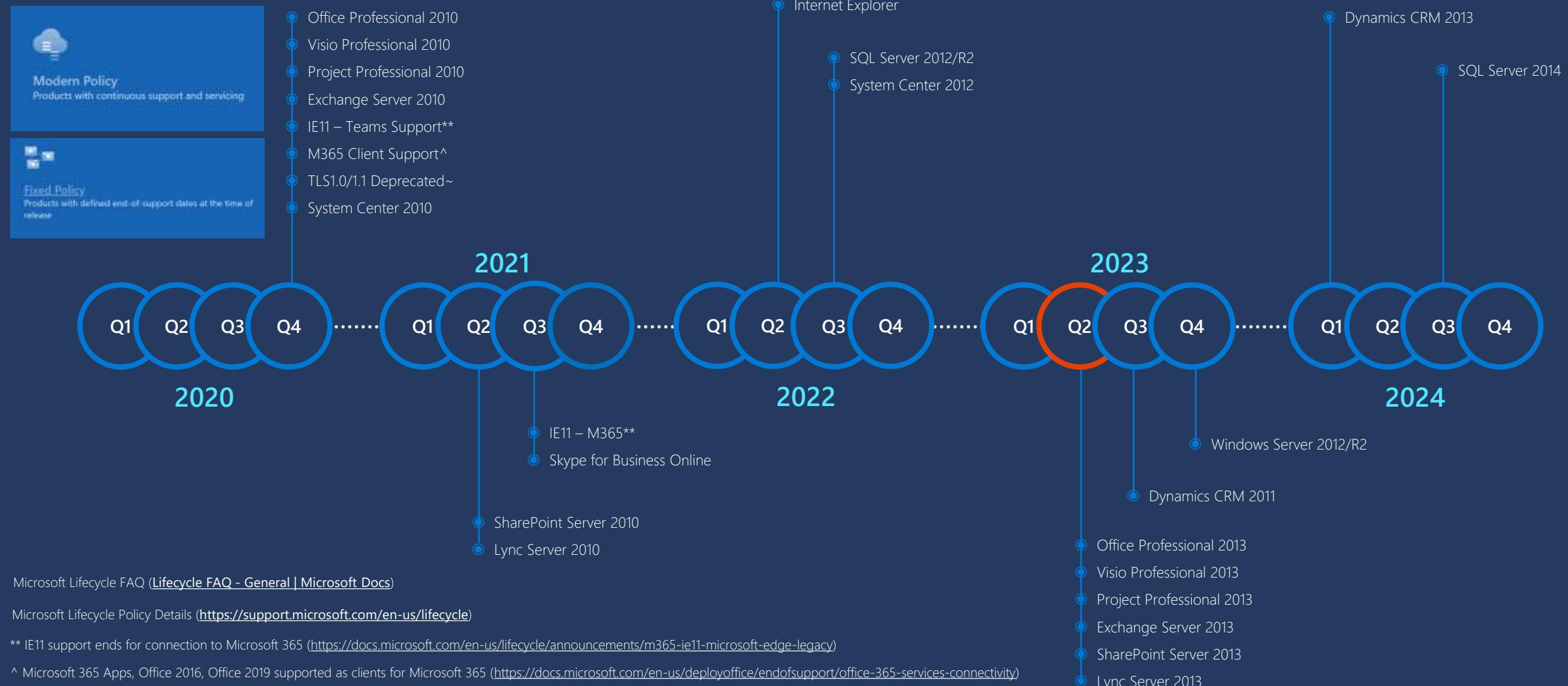
[Earn a Career Essentials in Business Analysis Professional Certificate](#)

# Product Lifecycles

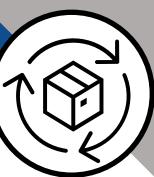




# End of Service Roadmap to 2024



# 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
<a href="#">Visio Services in SharePoint (in Microsoft 365)</a>	<b>February 10, 2023</b>
<a href="#">Microsoft Azure Virtual Machine (classic)</a>	<b>March 1, 2023</b>
<a href="#">Kaizala</a>	August 31, 2023
<a href="#">Scheduler for Microsoft 365</a>	September 1, 2023

## Products under Modern Policy that will Retire in 2024

Products Moving to End of Servicing (Modern Policy)	End of Servicing Date
<a href="#">Azure Data Lake Storage Gen1</a>	February 29, 2024
<a href="#">Azure Cloud Services (classic)</a> <a href="#">Machine Learning Studio (classic)</a>	August 31, 2024

### Lifecycle data export

#### Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

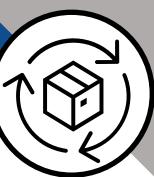
## Announcements

- ⌚ 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
- ⌚ 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
- ⌚ Windows 8.1 end of support on January 10, 2023
- ⌚ System Center 2012/2012 R2 end of support on July 12, 2022

[See more >](#)

# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2023

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

## Products Release End of Servicing for 2024

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2207</a>	February 12, 2024
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2022 release wave 2, version 21.x</a>	April 14, 2024
<a href="#">Windows 10 Home and Pro, Version 22H2</a>	May 14, 2024
<a href="#">Windows 10 Enterprise and Education, Version 21H2</a> <a href="#">Windows 10 IoT Enterprise, Version 21H2</a>	June 11, 2024
<a href="#">Windows 11 Enterprise and Education, Version 21H2</a> <a href="#">Windows 11 Home and Pro, Version 22H2</a> <a href="#">Windows 11 IoT Enterprise, Version 21H2</a>	October 8, 2024
<a href="#">PowerShell, PowerShell 7.2 (LTS-current)</a>	November 8, 2024
<a href="#">Azure IoT Edge, Version 1.4 (LTS)</a> <a href="#">.NET 6.0 (LTS)</a>	November 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
<a href="#">Dynamics AX 2012 R3</a> <a href="#">Dynamics NAV 2013</a> <a href="#">Dynamics NAV 2013 R2</a> <a href="#">Internet Information Services (IIS), IIS 8.5 on Windows 8.1</a> <a href="#">Microsoft Diagnostics and Recovery Toolset 8.0</a> <a href="#">Microsoft Report Viewer 2012 Runtime</a> <a href="#">Microsoft Report Viewer Redistributable 2012</a> <a href="#">Service Bus for Windows Server</a> <a href="#">User Experience Virtualization (UE-V) 1.0</a> <a href="#">Visual Studio 2012</a> <a href="#">Visual Studio Team Foundation Server 2012</a> <a href="#">Windows 7, Extended Security Update Year 3*</a> <a href="#">Windows 8.1</a> <a href="#">Windows Defender For Windows 8 and 8.1</a> <a href="#">Windows Embedded 8.1 Pro</a> <a href="#">Windows RT</a> <a href="#">Windows Server 2008, Extended Security Update Year 3</a> <a href="#">Windows Server 2008 R2, Extended Security Update Year 3</a> <a href="#">Workflow Manager 1.0</a>	January 10, 2023	<a href="#">BizTalk Server 2013</a> <a href="#">BizTalk Server 2013 R2</a> <a href="#">Dynamics 365 for Customer Engagement Apps, version 9 (on-premises update), Original Release (ver 9.0)</a> <a href="#">Microsoft BitLocker Administration and Monitoring 2.0</a> <a href="#">Microsoft SQL Server 2008, Extended Security Update Year 4 (Azure only)</a> <a href="#">Microsoft SQL Server 2008 R2, Extended Security Update Year 4 (Azure only)</a> <a href="#">Microsoft SQL Server 2012, Extended Security Update Year 1</a> <a href="#">Visual Studio 2022 , Version 17.0 (LTSC channel)</a> <a href="#">Windows Embedded 8 Standard</a> <a href="#">Windows Embedded 8.1 Industry</a>	July 11, 2023
<a href="#">Access 2013</a> <a href="#">Dynamics GP 2013</a> <a href="#">Dynamics GP 2013 R2</a> <a href="#">Excel 2013</a> <a href="#">Exchange Server 2013</a> <a href="#">HPC Pack 2012</a> <a href="#">HPC Pack 2012 R2</a> <a href="#">Lync 2013</a> <a href="#">Microsoft Lync Phone Edition</a> <a href="#">Microsoft Lync Server 2013</a> <a href="#">Microsoft Office 2013</a> <a href="#">Microsoft OneNote 2013</a> <a href="#">Outlook 2013</a> <a href="#">PowerPoint 2013</a> <a href="#">Project 2013</a> <a href="#">Project Server 2013</a> <a href="#">Publisher 2013</a> <a href="#">SharePoint Foundation 2013</a> <a href="#">SharePoint Server 2013</a> <a href="#">Skype for Business 2015</a> <a href="#">Visio 2013</a> <a href="#">Word 2013</a>	April 11, 2023	<a href="#">Excel 2019 for Mac</a> <a href="#">Hyper-V Server 2012</a> <a href="#">Hyper-V Server 2012 R2</a> <a href="#">Internet Explorer 7</a> <a href="#">Internet Information Services (IIS), IIS 8 on Windows Server 2012</a> <a href="#">Internet Information Services (IIS), IIS 8.5 on Windows Server 2012 R2</a> <a href="#">Microsoft Office 2019 for Mac</a> <a href="#">Microsoft Office Audit and Control Management Server 2013</a> <a href="#">Outlook 2019 for Mac</a> <a href="#">PowerPoint 2019 for Mac</a> <a href="#">Windows Embedded Compact 2013</a> <a href="#">Windows Embedded POSReady 7, Extended Security Update Year 2*</a> <a href="#">Windows Embedded Standard 7, Extended Security Update Year 3*</a> <a href="#">Windows MultiPoint Server 2012</a> <a href="#">Windows Server 2012</a> <a href="#">Windows Server 2012 R2</a> <a href="#">Windows Server Update Services for Windows Server 2012</a> <a href="#">Windows Server Update Services for Windows Server 2012 R2</a> <a href="#">Windows Storage Server 2012</a> <a href="#">Windows Storage Server 2012 R2</a> <a href="#">Word 2019 for Mac</a>	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
<a href="#">Dynamics CRM 2013</a> <a href="#">Microsoft Host Integration Server 2013</a> <a href="#">Visual Studio 2022 , Version 17.2 (LTSC channel)</a> <a href="#">Windows Server 2008, Extended Security Update Year 4 (Azure only)</a> <a href="#">Windows Server 2008 R2, Extended Security Update Year 4 (Azure only)</a>	January 9, 2024
<a href="#">Microsoft Deployment Agent 2013</a> <a href="#">Microsoft Diagnostics and Recovery Toolset 8.1</a> <a href="#">Test Agent, Controller</a> <a href="#">User Experience Virtualization (UE-V) 2.0</a> <a href="#">Visual Studio 2013</a> <a href="#">Visual Studio Team Foundation Server 2013</a>	April 9, 2024
<a href="#">Microsoft SQL Server 2012, Extended Security Update Year 2</a> <a href="#">SQL Server 2014</a>	July 9, 2024
<a href="#">Visual Studio 2022 , Version 17.4 (LTSC channel)</a>	July 11, 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
<a href="#">Dynamics GP 2018</a> <a href="#">Dynamics GP 2018 R2</a> <a href="#">Dynamics NAV 2018</a> <a href="#">Visual Studio Team Foundation Server 2018</a>	<b>January 10, 2023</b>
<a href="#">Access 2019</a> <a href="#">Dynamics 365 Business Central on-premises (Fixed Policy)</a> <a href="#">Excel 2019</a> <a href="#">Microsoft Office 2019</a> <a href="#">OneNote 2016</a> <a href="#">Outlook 2019</a> <a href="#">PowerPoint 2019</a> <a href="#">Project 2019</a> <a href="#">Publisher 2019</a> <a href="#">Visio 2019</a> <a href="#">Word 2019</a>	October 10, 2023

## Products Moving to Extended Support for 2024

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



# Acquisitions and Announcements

# Microsoft Acquisitions - 2023



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

# Microsoft Acquisitions - 2022



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

# Microsoft Acquisitions - 2021



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



## Microsoft Acquisitions - 2020

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

# Microsoft Acquisitions - 2019



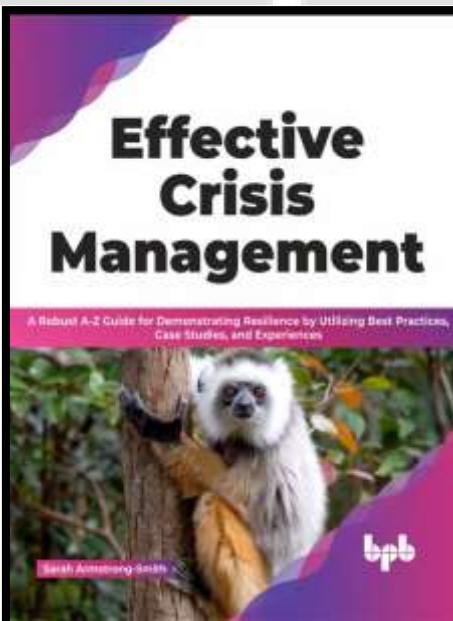
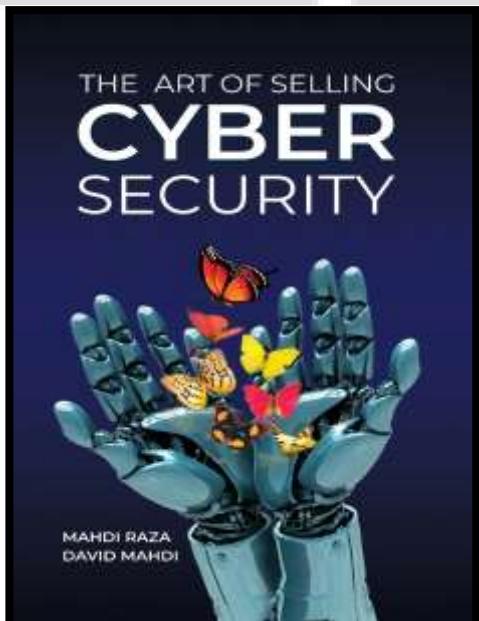
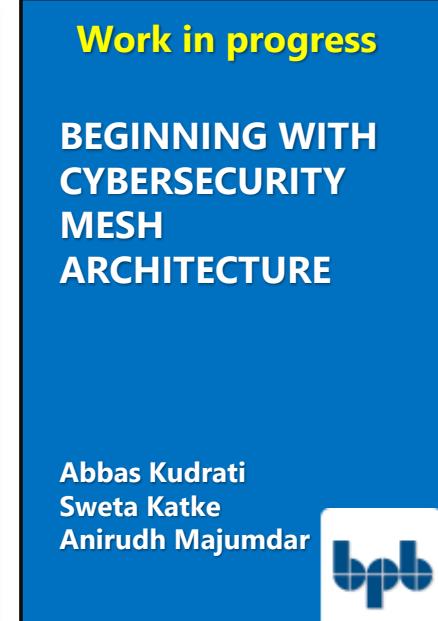
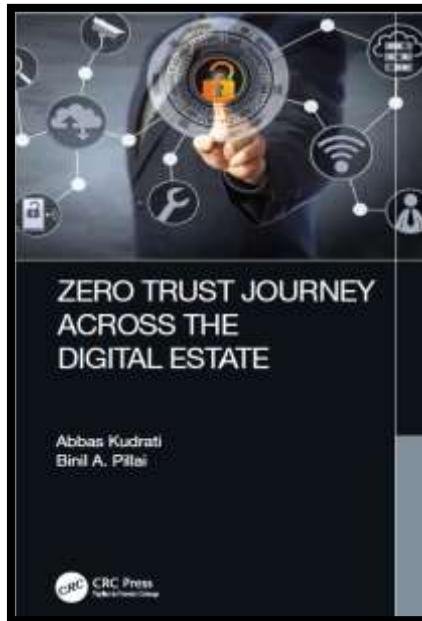
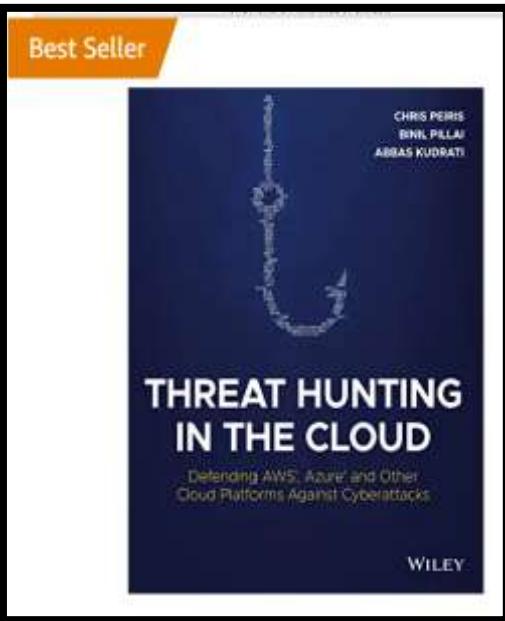
Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless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

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