



# Monthly Technical Briefing

## MARCH 2023



**Abbas Kudrati**  
**APAC Chief Cybersecurity Advisor**  
**[Abbas.Kudrati@microsoft.com](mailto:Abbas.Kudrati@microsoft.com)**  
**<https://aka.ms/abbas>**

# Microsoft at RSA Conference™

April 24–27, 2023 | San Francisco



Will you be going to RSA SFO this year ?



Dear Customer,

As your trusted advisor, I'm asking you to save the date to join [me at RSA Conference 2023, April 24-27 in San Francisco](#). With the power of Microsoft Cloud, Microsoft Security helps eliminate gaps and get simplified, comprehensive protection and expertise so you can be fearless as you grow, create, and innovate.

Please mark your calendar by downloading the attached file for the **Pre-day with Microsoft at RSA on Sunday, April 23, 2023, starting at 4:00PM**. We'll be kicking off the conference with Microsoft engineering and business leaders sharing their vision, insights, and the latest innovations in Microsoft Security. Join us to learn from experts and discuss the solutions and strategies that help you protect what matters most.

Connect with our team at RSA, where we will highlight innovative technology and solutions that deliver simplified, comprehensive protection to secure more with less. We will have an immersive booth experience located at **Moscone North Expo #6044N**, which will include product demos, booth tours, and sessions.

A formal invite with details on all Microsoft engagement activities will follow, but please use the **custom discount code to register** for the conference now: **54SMICROSXP**.

I hope you can join me!



Microsoft Secure

Sessions

Support

Register now

# Microsoft Secure

Join us March 28 at 8:30 AM PDT for a brand-new digital event, Microsoft Secure—a place for security professionals to explore the most comprehensive, industry-leading solutions to help you protect everything.

Register now

<https://secure.microsoft.com/en-US/home>



## Create a safer world for all

Our most secure future requires an end-to-end approach with the technology and tools to build, defend, and detect. Join your peers and industry experts at Microsoft Secure—a new digital event designed just for security professionals. Be among the first to see what an AI-powered future holds for cybersecurity, and learn new comprehensive strategies to help you protect more effectively. Let's go forward together fearlessly and create a safer world for all.

- [Bluehat 2023](#)
- [M365 Conference 2023](#)
- [Microsoft Power Platform Conference 2023](#)
- [Microsoft Tech Community Blog depot](#)
- [Microsoft Official Blog](#)
- [TechCommunity Events](#)
- [Microsoft Technical Documentation Hub](#)



Announcements and Tips



New trends with Microsoft Technology

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

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



Security and Compliance

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



Showcase of the month

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



Microsoft 365 update information



Product Lifecycles

Acquisitions and Announcements

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



## Imagine

Explore innovative technologies leveraging AI, Assistive Technology, and Inclusive Design to break down the barriers to push the future of inclusion and accessible technology.

## Build

Join experts sharing the importance of inclusive-by-design with accessible products, services, websites, and culture, including how to make accessibility easier to achieve through tools, knowledge sharing, and next steps.

## Include

Meet leaders with disabilities and allies who specialize in disability culture, workplace accommodations, organizational responsibility, and disability policy. Learn how you can amplify the perspectives of people with disabilities for a more inclusive world.

# Join Ability Summit

March 8, 2023

## Start your journey at Ability Summit

**There are no limits to what people can achieve when technology reflects the diversity of everyone.**

Ability Summit is a free digital event experience on March 8, 2023. Discover new accessible technology, learn from leaders with disabilities, and explore how accessibility empowers everyone within an organization, your community, and so much more.

[Register today](#)

Reinventing Productivity

# The Future of Work with AI



The livestream starts at 8 am PT on March 16. Learn how AI will usher in a new way of working for every person and organization.

## Reinventing productivity with AI

Join us for a special event with Satya Nadella and Jared Spataro to learn how Microsoft is reinventing productivity with AI.

# Microsoft Secure



Join us March 28 at 8:30 AM PDT for a brand-new digital event, Microsoft Secure—a place for security professionals to explore the most comprehensive, industry-leading solutions to help you protect everything.

[Register now](#)

## Agenda

Review upcoming keynotes, sessions, and product deep-dives. Check back for more details.

Tuesday, March 28

TIME (CDT)	DESCRIPTION
10:30 AM–10:35 AM	Welcome to Microsoft Secure: Our hosts will guide you through the event and get you ready for the day ahead.
10:35 AM–1:00 PM	<b>Keynotes</b> Join Microsoft thought leaders and product experts as they share new technology opportunities designed for a comprehensive security approach and an AI-powered future.
1:00 PM–3:30 PM	<b>Breakout Sessions</b> Learn more about our innovations and new security strategies through breakouts suited to your role and interests. Explore sessions across SIEM + XDR, multicloud, identity management, data protection, zero trust, ransomware, and secure configurations.
1:00 PM–4:00 PM	<b>Connection Zone</b> Dive deeper into products by joining group live and interactive Ask the Experts sessions, Product Roundtable discussions, guided Learn Live sessions, and more to enrich your Microsoft Secure event experience.

# **GitHub Galaxy 2023: your guide to building a more flexible and productive software development cycle**

Join us virtually on March 28-31 for GitHub Galaxy, a global enterprise event focused on improving efficiency, security, and developer productivity.

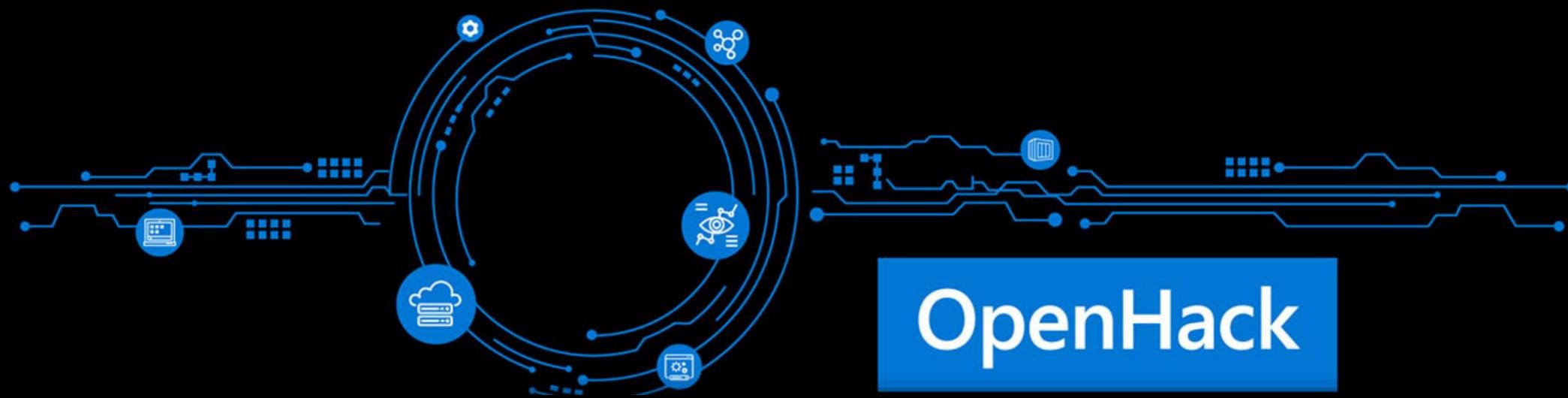


# Galaxy 2023

[Register now](#)



 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>



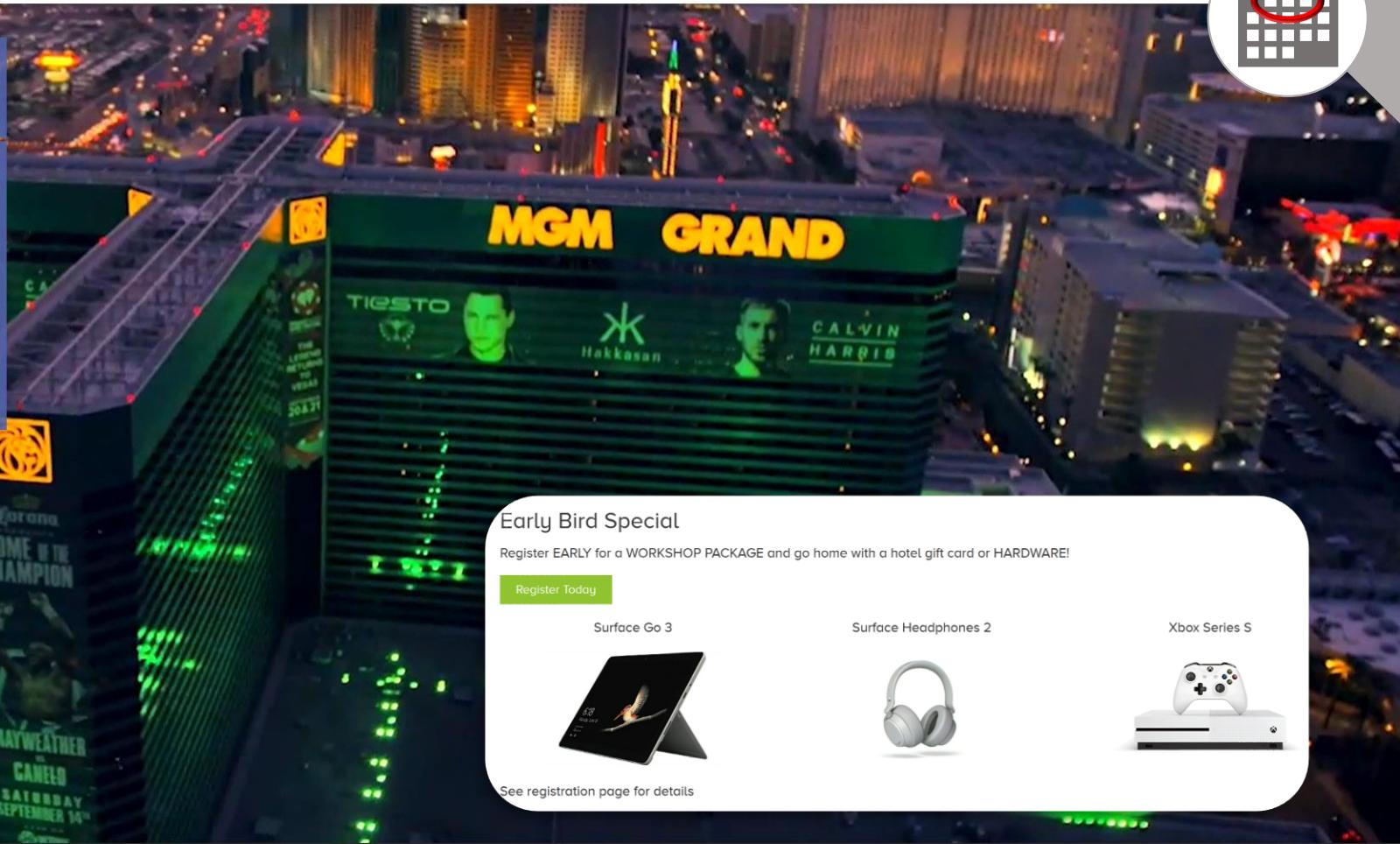
**Microsoft 365  
CONFERENCE** | Microsoft Viva  
Microsoft Teams  
Microsoft SharePoint  
Microsoft Power Platform

**2023**

**May**  
2 - 4

**📍 MGM Grand Las Vegas, NV**  
**Workshops**  
Apr. 30th, May 1st & 5th

**REGISTER** **BOOK HOTEL**



**MGM GRAND**

Tiesto, Calvin Harris, Hakkasan

**Early Bird Special**  
Register EARLY for a WORKSHOP PACKAGE and go home with a hotel gift card or HARDWARE!

**Register Today**

Surface Go 3, Surface Headphones 2, Xbox Series S

See registration page for details

OneDrive

Microsoft Stream

Power Apps

Power Automate

Power BI

Microsoft 3

SPEAKERS

**150**

SESSIONS

**150**

WORKSHOPS

**18**

EXHIBITORS

**50**

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

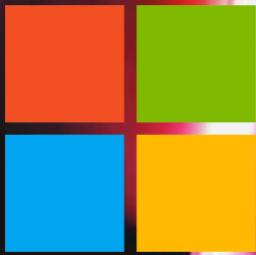
We are excited to announce the second annual **Microsoft Power Platform Conference 2023**! This event is sponsored by Microsoft and will be held in-person on October 3-5 in Las Vegas, Nevada.

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.

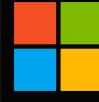
You'll have insider access to all the information, opportunities, and connections you need to further your Power Platform journey.

- **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 and OpenAI

- [Satya Nadella: Microsoft's Products Will Soon Access Open AI Tools Like ChatGPT | WSJ – YouTube Video](#)
- [Synapse Espresso: Using OpenAI GPT-3 in Synapse! – YouTube Video](#)
- [Request Access to Azure OpenAI Service](#)

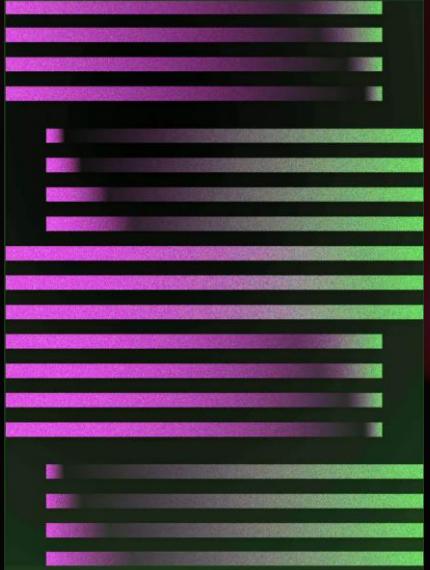


# Microsoft & OpenAI Core Research



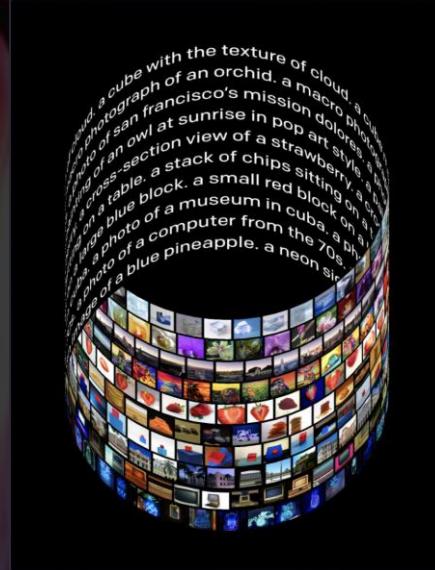
## Image GPT

A large transformer model trained on pixel sequences can generate coherent image [completions](#) and [samples](#). By establishing a correlation between sample quality and image classification accuracy, our best generative model also contains features competitive with top convolutional nets in the unsupervised setting.



## Jukebox

A neural net that generates music, including rudimentary singing, as raw audio in a variety of genres and artist styles. We're releasing the model weights and code, along with a tool to explore the generated samples.



## DALL·E

A neural network called DALL·E that creates images from text captions for a wide range of concepts expressible in natural language.



## Chat GPT

Optimized Language Model for Dialogue. It interacts in a conversational way. The dialogue format makes it possible for ChatGPT to answer followup questions, admit its mistakes, challenge incorrect premises, and reject inappropriate requests.



## AI-Classifier

a classifier trained to distinguish between AI-written and human-written text.



# Microsoft & OpenAI



A strategic partnership to accelerate innovation in large AI models, software systems, infrastructure, applications and safety

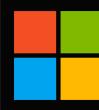
- ❖ **Supercomputing at scale** – Microsoft will increase our investments in the development and deployment of specialized supercomputing systems to accelerate OpenAI's groundbreaking independent AI research. We will also continue to build out Azure's leading AI infrastructure to **help customers build and deploy their AI applications on a global scale**.
- ❖ **New AI-powered experiences** – Microsoft will deploy **OpenAI's models across our consumer and enterprise products and introduce new categories of digital experiences** built on OpenAI's technology. This includes Microsoft's **Azure OpenAI Service**, which empowers developers to build cutting-edge AI applications through **direct access to OpenAI models** backed by Azure's trusted, enterprise-grade capabilities and AI-optimized infrastructure and tools.
- ❖ **Exclusive cloud provider** – As OpenAI's exclusive cloud provider, **Azure will power all OpenAI workloads across research, products, and API services**.
- ❖ **More Announcements at <https://openai.com/blog>**

## Getting started with Azure OpenAI Service

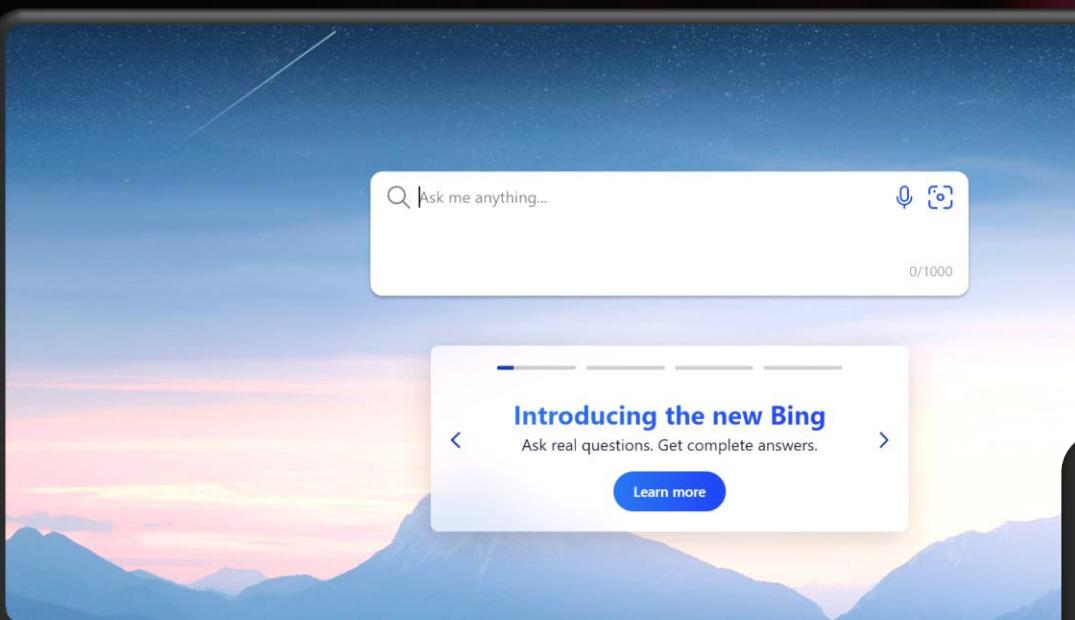
- ❖ **Learn more** about [Azure OpenAI Service](#) and more about all the [latest enhancements](#).
- ❖ **Apply for access to Azure OpenAI Service**. Once approved for use, customers can log in to the [Azure portal](#) to create an Azure OpenAI Service resource and then get started either in our Studio website or via code:
  - ❖ [How to create an Azure OpenAI Service resource](#)
  - ❖ [Quickstart: how to get started generating text](#)
- ❖ **Read the blog:** [AI and the need for purpose-built cloud infrastructure](#).

## Timeline of key Microsoft AI breakthroughs



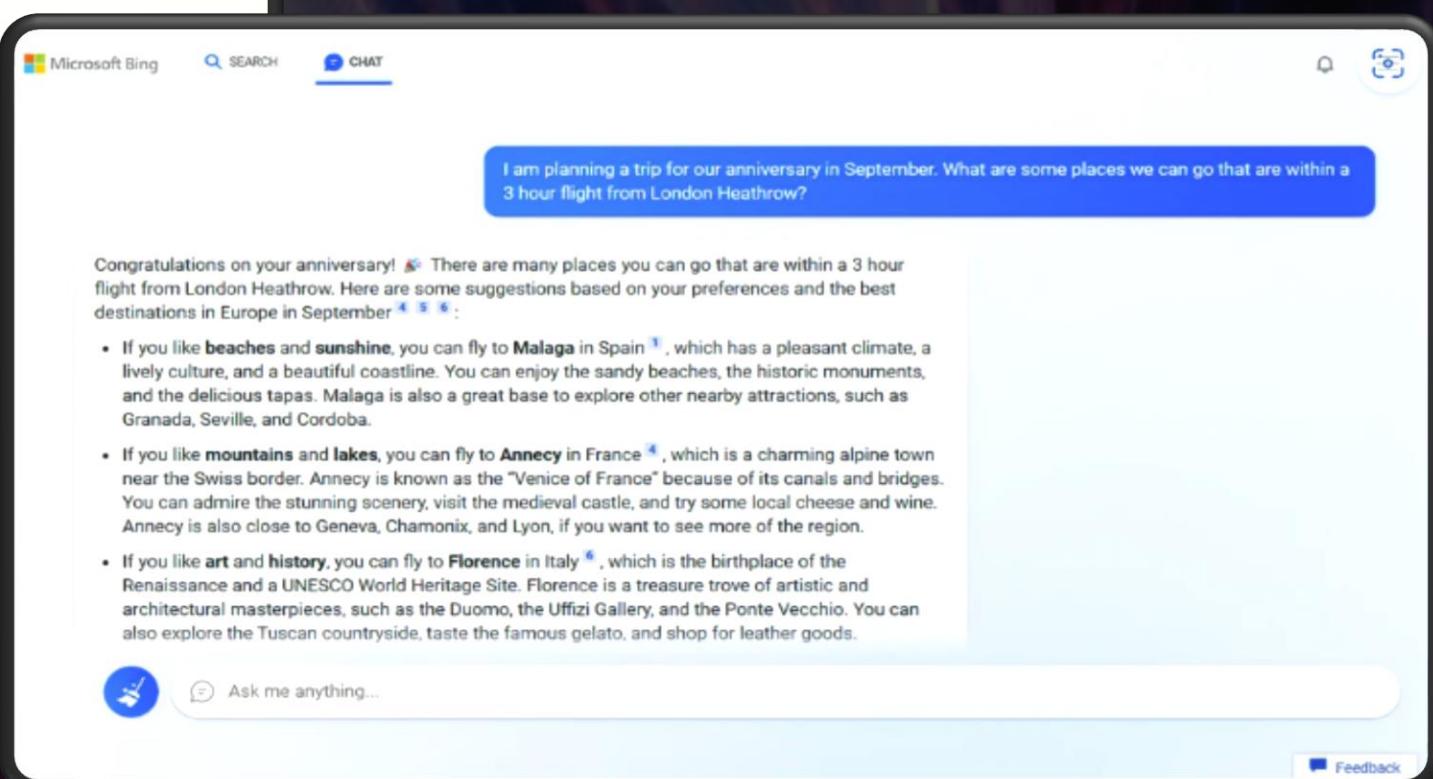


# Microsoft & OpenAI for Bing



❖ **Applying AI to core search algorithm.** We've also applied the AI model to our core Bing search ranking engine, which led to the largest jump in relevance in two decades. With this AI model, even basic search queries are more accurate and more relevant.

❖ **New user experience.** We're reimaging how you interact with search, browser and chat by pulling them into a unified experience. This will unlock a completely new way to interact with the web.



❖ **Next-generation OpenAI model.** The new Bing is running on a new, next-generation OpenAI large language model that is more powerful than **ChatGPT** and customized specifically for search. It takes key **learnings and advancements from ChatGPT and GPT-3.5** – and it is even faster, more accurate and more capable.

❖ **Microsoft Prometheus model.** A proprietary way of working with the OpenAI model that allows us to best leverage its power. We call this **collection of capabilities and techniques the Prometheus model**. This combination **gives you more relevant, timely and targeted results, with improved safety**.



# Microsoft & OpenAI :: Teams Premium



## Focus on what matters with AI-powered meetings, including GPT from OpenAI

With a 252 percent increase in weekly time spent in meetings in the first two years of the pandemic, we needed to find ways to “work smarter, not harder.” Both the pace of work and the amount of information needed to sift through have grown exponentially, especially with meetings. There’s a ton of time-consuming administrative work during meetings, like taking notes, figuring out important takeaways, and capturing the right action items and owners.

That’s why Teams is infusing AI throughout the meeting experience, helping you be more productive in new ways. With **intelligent recap** in Teams premium, you’ll get automatically generated meeting notes, recommended tasks, and personalized highlights to help you get the information most important to you, even if you miss the meeting.

## AI Powered Teams Premium

- ❖ With **intelligent recap** in Teams premium, you’ll get automatically generated meeting notes, recommended tasks, and personalized highlights to help you get the information most important to you, even if you miss the meeting.
  - ❖ **AI-generated chapters** divide the meeting into sections so it’s easy to pick and choose the content most relevant to you. This is available today for PowerPoint Live meeting recordings. Intelligent recap will automatically generate meeting chapters based on the meeting transcript as well.
- ❖ Available today, **personalized timeline markers**—that only you can see—call out when you joined or left a meeting in the meeting recording, so you can quickly click and listen in on what you missed.
- ❖ **speaker timeline markers** that show you who spoke during the meeting, when they spoke, and allows you to jump to that moment.
- ❖ **Microsoft Enterprise Content Deliver Network (eCDN)** is now included in Teams Premium. With Microsoft eCDN, organizations can seamlessly and securely live stream global meetings, all-hands gatherings, and town halls, and distribute company-wide trainings using Teams Live Events.

## Protected meetings

Teams Premium provides additional ways to safeguard meetings with the following key features:

- **Sensitivity labels** - Extended capabilities for sensitivity labels to control meeting settings normally controlled by the meeting organizer. These capabilities include new settings to control lobby, chat, chat copy, presentation, and recording functions.
- **Watermarking** - Enforced through a sensitivity label. Watermarks display the email address of a meeting participant, which is useful for protecting confidential information shared in meetings.
- **End-to-end encryption** - Enforced through a sensitivity label. End-to-end encryption provides increased security for meetings that require a higher level of protection.

## Custom meetings

Teams Premium provides the following additional features for customizing meetings:

- **Meeting templates** - Used to control meeting settings that the meeting organizer normally controls. With templates, you can create consistent meeting experiences in your organization and help enforce compliance requirements and business rules.
- **Meeting themes** - Allows your organization to extend their visual identities across the meeting experience. You can set up and create meeting themes for a variety of business units and departments within a single tenant.
- **Custom meeting backgrounds for organizations** - You can create and define custom meeting backgrounds that are then available to your end users with a Teams Premium license.
- **Custom together mode scenes for organizations** - You can create, customize, or accept custom together mode scenes for meetings that are then available to your end users with a Teams Premium license.

## Premium events

Teams Premium provides an advanced webinar experience for your users with the new Teams Events policy. While continuing to support registration and tracking, the new policy will also provide functionality for meeting hosts and organizers, such as:

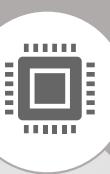
- **Terms and conditions custom question** - To present to attendees.
- **Presenter bio** - To include information about presenters.
- **Banner, logo, and predefined color** - To present a customized visual webinar experience.
- **Advanced registration capabilities** - Including manual approval, waitlist, registration date and time limit.
- **Registration overview and management** - For each event, a summary of registration status with lists of attendees in different registration states--depending on which registration features have been enabled.

# 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

Select a region ▾

### Most affected industries

Reported enterprise malware encounters in the last 30 days

#### Healthcare and pharmaceuticals

Show all industries >

Devices with encounters:  
397,599 (4.62%)



Reported enterprise malware encounters in the last 30 days



#### Fileless in more ways than one

Attacks can go fileless in many ways. Attackers often use scripts, but they also attempt to inject code into memory, hijack COM objects, and even insert malicious code into firmware. Although these fileless techniques have figured in targeted attacks, they have become more common in commodity malware campaigns.

[Learn about fileless techniques >](#)

February 21, 2023 • 6 min read

#### 2022 in review: DDoS attack trends and insights

With DDoS attacks becoming more frequent, sophisticated, and inexpensive to launch, it's important for organizations of all sizes to be proactive and stay protected. In this blog, we detail trends and insights into DDoS attacks we observed and mitigated throughout 2022.

[Read more >](#)

Healthcare and pharmaceuticals ▾

#### Top threats:

Exploit:Linux/Edir.A  
PUA:Win32/Adsunwan  
Spammer:PDF/Anomail!MTB  
Trojan:Win32/Tengai!MSR  
Trojan:Win32/Ymacco.ABED

March 6, 2023 • 6 min read

#### Protecting Android clipboard content from unintended exposure

Microsoft discovered that the SHEIN Android application periodically read the contents of the Android device clipboard and, if a particular pattern was present, sent the contents of the clipboard to a remote server.

## Worldwide

**82,400,474 devices with encounters**

#### Top threats:

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

March 13, 2023 • 7 min read

#### DEV-1101 enables high-volume AiTM campaigns with open-source phishing kit

DEV-1101 is an actor tracked by Microsoft responsible for the development, support, and advertising of several AiTM phishing kits, including an open-source kit capable of circumventing MFA through reverse-proxy functionality.

February 28, 2023 • 11 min read

## Microsoft Security Experts discuss evolving threats in roundtable chat

Get an in-depth recap of the latest Microsoft Security Experts Roundtable, featuring discussions on trends in global cybercrime, cyber-influence operations, cybersecurity for manufacturing and Internet of Things, and more.

[Read more >](#)

February 15, 2023 • 5 min read

### Microsoft shifts to a comprehensive SaaS security solution

Learn how Microsoft Security is transforming its cloud access security broker to a software as a service security solution, empowering organizations to adopt a modern approach to protecting cloud apps.

March 2, 2023 • 4 min read

### Microsoft is named a Leader in the 2022 Gartner® Magic Quadrant™ for Endpoint Protection Platforms

Gartner has again recognized Microsoft as a Leader in the 2022 Gartner® Magic Quadrant™ for Endpoint Protection Platforms, positioned highest on the Ability to Execute.

March 8, 2023 • 7 min read

### International Women's Day: The power of diversity to build stronger cybersecurity teams

On International Women's Day, we celebrate the accomplishments of women in technology and reflect on our commitment to encouraging and supporting women in cybersecurity.

March 1, 2023 • 5 min read

### SEC cyber risk management rule—a security and compliance opportunity

The proposed Securities and Exchange Commission rule creates new reporting obligations for United States publicly traded companies to disclose cybersecurity incidents, risk management, policies, and governance. This blog describes how the rule is an opportunity for the IT security team to provide value to the company.

March 2, 2023 • 10 min read

### New research, tooling, and partnerships for more secure AI and machine learning

At Microsoft, we've been working on the challenges and opportunities of AI for years. Today we're sharing some recent developments so that the community can be better informed and better equipped for a new world of AI exploration.

February 27, 2023 • 8 min read

### 5 reasons to adopt a Zero Trust security strategy for your business

Learn how Zero Trust security can help minimize damage from a breach, support hybrid work, protect sensitive data, and more.





# Microsoft 365 update information

# Microsoft Teams Blog:



What's New in Microsoft Teams | February 2023

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

Steve\_Stein on Feb 28 2023 02:45 PM

Welcome to the February 2023 edition of What's New in Teams! This month is all about Teams Premium. We had a big announ...

### New for This Month:

- [Closed Captions in PowerPoint Live for Microsoft Teams Meetings](#)
- [Azure Communications Gateway](#)
- [Virtual Appointments – Basic Functionality](#)
- [Virtual Appointment Graph API](#)
- Picture-in-Picture mode on iPhone/iPad
- Co-Organizer can manage Breakout Rooms
- Authentication improvements
- New Call Controls in Survivable Branch Appliance

### Rooms and Devices:

- [Lenovo ThinkSmart One](#)
- [Crestron FLEX Microsoft Teams Room Kit](#)
- [Dell OptiPlex 7080](#)
- [Yealink UH37 Dual / Mono Headset](#)

Rapidly deploy Microsoft Teams at scale to empower your...

rahuldey on Mar 01 2023 08:00 AM

Customers are eager to improve frontline collaboration and productivity but often run into scale deployment roadblocks d...

### Chat and Collaboration:

- Start a Teams chat with distribution Groups, mail-enabled security groups, and Microsoft 365 groups
- Edit and delete events support for message in User:Bot chats
- Schedule send suggestions with Viva Insights
- @mention everyone in chat
- Missing call notification in activity feed

### Management:

- Manage Surface Hubs as Teams devices from Teams admin center
- Notification granularity
- Manage third-party app subscriptions within Teams Client
- Delete or rename files in a channel and your OneDrive folder in Teams
- License management in Microsoft Teams and Teams admin center for SaaS offers built by ISVs

### Teams Premium:

- Teams Premium brings the latest technologies, including Large Language Models powered by [OpenAI's GPT-3.5](#),
- Meetings are more intelligent, personalized, and protected—whether it's one-on-one, large meetings, virtual appointments, or webinars.
- Create [personalized meetings](#) in a snap that embody your company brand.
- **AI Powered Meetings:**
  - Stay informed of follow-up plans through [intelligent recap](#) and [AI-generated Tasks](#)(coming soon).
  - [automatically generated chapters](#) and [personalized recording highlights](#).
  - [Improved Transcript Search](#)
  - [Live Translation - Translate captions during meetings](#) - reduce language barriers in meetings with live translated captions.
- Security:
  - [Watermark shared content and video feeds](#) to help prevent leaks and keep sensitive information inside meetings.
  - [Designate who can record meetings](#), and enable end-to-end encryption
- Enable advanced personalized [Virtual Appointments](#)
  - [View aggregated appointment reports](#) and trends, such as no-shows and wait times, to help drive better customer experiences.
  - [Create frictionless experiences](#) on any device
- Host High-quality webinars
  - [Behind-the-scenes tools](#) like virtual green room
  - [Send automatic reminder emails](#) before a webinar
  - [Manage demand and registration capacity](#) by enabling a waitlist and manual approval

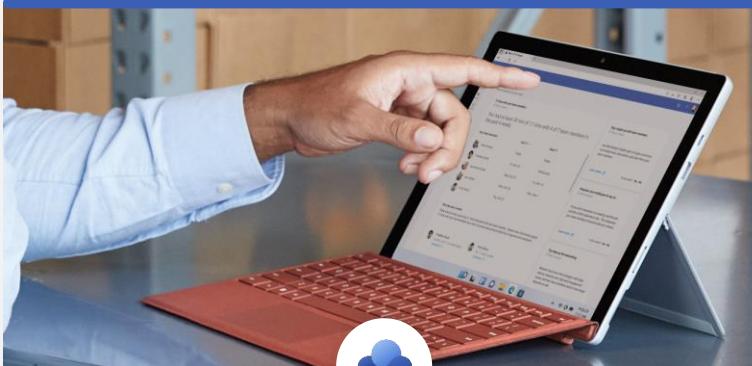
# Microsoft Viva: & Viva Blog:

# 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



A screenshot of the Microsoft Viva Sales interface. It shows an email titled "Request for a proposal" from "Mia Steele" to "Kathy Krull". The email body contains a message about a proposal for 100 units of the new Viva Coffee Machines. Below the email is a "Draft saved at 11:59 AM" message.

## What's New in Viva Sales – February 2023

davidshin on Feb 16 2023 12:00 AM

This month, we're bringing an exciting pair of new features that together make Viva Sales even more of an indispensable ...

**Microsoft Viva Topics**

A screenshot of the Microsoft Viva Analytics interface. It displays a chart titled "Time saved by Answers" showing a reduction of 10 days and 5 hours. Below the chart, there are several questions listed under the heading "Top 2 questions that saved time for your organization".

## Answers in Viva: Understanding Time Saved & People Helped

kedieu on Feb 21 2023 12:00 PM

Microsoft Viva unveiled a new service to help people find answers to their questions called Answers in Viva.

**Microsoft Viva Connections**

**Microsoft Viva Learning**

A screenshot of the Microsoft Viva Leadership corner interface. It shows a post from "Bruce Zhao" titled "Leadership corner" with a blue "co" logo. The post discusses accessibility and includes a link to an article and a comment section.

## New Leadership, Analytics, and Knowledge Experiences for...

Michael Holste on Feb 13 2023 08:00 AM

Today, Microsoft announced that new experiences for leaders, communicators and knowledge sharing in Viva Engage are now ...

A screenshot of the Microsoft Viva Connections interface. It shows a news feed with various posts and updates from different users and teams.

## New experiences for Viva Connections are now rolling out

scottesmith on Feb 08 2023 06:00 AM

Learn how the evolution of Viva Connections and SharePoint home sites can help improve your employee experiences.



**Microsoft Viva Goals**



**Microsoft Viva Engage**



**Microsoft Viva Sales**

# What's New in Microsoft 365

## M365 Blogs covering Office 365, Enterprise Mobility + Security and Windows ::

- ❖ [Assigning Conditional Access to External User Types Preview](#)
- ❖ [Conditional Access Authentication Strength :: Preview](#)
- ❖ [Centrally manage permissions with the Microsoft 365 Defender role-based access control \(RBAC\) model](#)
- ❖ [New research, tooling, and partnerships for more secure AI and machine learning](#)
- ❖ [Protecting Android clipboard content](#)
- ❖ [Microsoft is named a Leader in the 2022 Gartner® Magic Quadrant™ for Endpoint Protection Platforms](#)
- ❖ [Introducing the new Microsoft Intune Suite](#)

### Microsoft 365 admin digest - February 2023

GabeHo on Feb 28 2023 09:12 AM

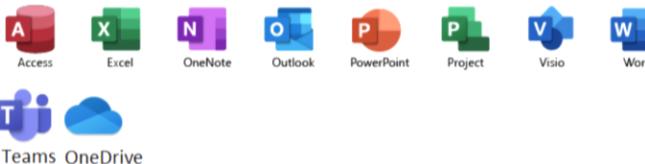
What is change management and why do we keep hearing about it?

#### Simplifying change management of Microsoft 365

Yana Terukhova on Feb 22 2023 10:01 AM

Learn more about new features to help IT admins simplify Microsoft 365 change management.

### What's new in your favorite Microsoft 365 app



### AI, roadmap, community, and more at the Microsoft 365...

Jeff Teper on Feb 13 2023 11:00 AM

There has never been more exciting time to be in tech and the Microsoft 365 Conference in Las Vegas on May 2-4th is the ...

### Microsoft Visio Viewer app for iOS will be retired from...

AbhinavChatterjee on Mar 06 2023 09:00 AM

Learn about the retirement of the Visio Viewer app for iOS and how to access diagrams on the go.

# 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 Viva: Topics in Yammer](#)

Preview: December 2022  
GA: May 2023

> [Microsoft Graph: SharePoint Pages API](#)

Preview: January 2023  
GA: May 2023

> [Outlook for Windows: Signature cloud settings](#)

Preview: October 2022  
GA: April 2023

> [Microsoft Intune: Update Readiness Reports](#)

Preview: May 2022  
GA: April 2023

> [Microsoft Search: Attachment search](#)

GA: March 2023

> [Microsoft Teams: Busy-on-busy end user setting](#)

GA: March 2023

> [Outlook: Support for Local Folders \(On My Computer\) in the New Outlook for Mac](#)

GA: March 2023

> [Microsoft Teams: Ultrasound Howling Detection](#)

Preview: February 2023  
GA: March 2023

> [Microsoft Defender for Office 365: Security Threat Submission API](#)

Preview: June 2022  
GA: March 2023

> [Microsoft Viva: Viva Connections Customer Facing Analytics](#)

GA: March 2023

> [Microsoft 365 admin center: Experience insights for Microsoft 365 admins](#)

Preview: August 2022  
GA: March 2023

> [Whiteboard: Save and share user templates](#)

GA: March 2023

> [Microsoft Purview | Information Protection: User-defined permissions now support domain name restrictions](#)

Preview: December 2022  
GA: March 2023

> [Microsoft Teams: Simulcast for Teams on AVD and Citrix VDI](#)

GA: March 2023

> [SharePoint: Microsoft Lists - Microsoft Lists - Approvals integration](#)

GA: March 2023

> [Microsoft Teams: Power Automate Connector – Updates App \(Microsoft 365\)](#)

GA: March 2023

> [Microsoft Purview compliance portal: eDiscovery \(Premium\) - Review set: List page usability enhancements](#)

GA: March 2023

> [Microsoft Planner: Templates in Planner web](#)

GA: March 2023

> [Azure Active Directory: Tenant Creation Lockdown](#)

Preview: December 2022  
GA: March 2023

> [Microsoft Project: Additional Timeline Zoom Options](#)

GA: March 2023



# 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



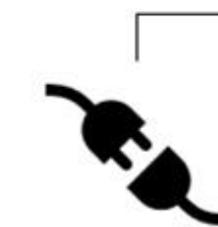
**Power Automate**  
Process automation



**Power Virtual Agents**  
Intelligent virtual agents



**Power Pages**  
External-facing websites



Data  
connectors



AI Builder



Dataverse

# Power Platform and Dynamics

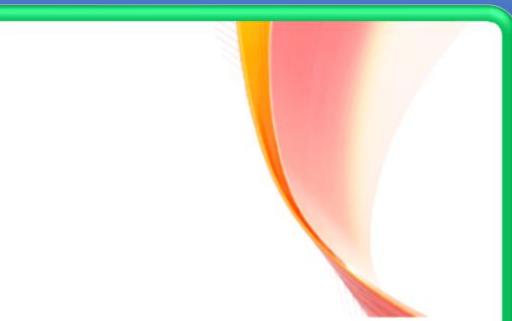


## Revolutionize customer service with next-generation AI >

March 10, 2023 • 4 min read

By [Jeff Comstock](#), Vice President, Dynamics 365 Customer Service

We're entering the era of generative AI that is driving new levels of productivity and efficiency, unleashing new innovations in the customer service space. AI is profoundly changing how customers engage with businesses and how agents provide exceptional service to them. [Read more](#)



## Introducing Microsoft Dynamics 365 Copilot, bringing next-generation AI to every line of business >

March 6, 2023 • 8 min read

By [Emily He](#), Corporate Vice President, Business Applications Marketing

Today we announced Microsoft Dynamics 365 Copilot, providing interactive, AI-powered assistance across business functions—from sales, service, and marketing to supply chain. With Dynamics 365 Copilot, we're introducing the world's first AI copilot natively built-in to both CRM and ERP applications.

[Read more](#)



## Join us for Microsoft Customer Success Day—dedicated to realizing business value with Dynamics 365 and Power Platform >

February 21, 2023 • 4 min read

By [Monica Flaherty](#), Senior Director of Customer Success Marketing, Business Applications Go-To-Market

We're thrilled to invite you to the first-ever Microsoft Customer Success Day, a free virtual conference for Microsoft Dynamics 365 and Power Platform users on March 16, 2023. This event is open to all community members, customers, partners, and enthusiasts, globally.

[Read more](#)

Roadmaps and Release plans:



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

- [The Scanner API now includes more metadata, scheduled refresh settings, RDL, RLS configuration, and more](#)
- [Power BI Org Apps with Multiple Audiences :: Generally Available](#)
- [Query parallelization helps to boost Power BI dataset performance in DirectQuery mode](#)
- [Power BI Datamart – February 2023 Feature Summary](#)
- [Announcing the retirement of Streaming Dataflows](#)
- [Design and automatically send actionable, data-driven cards in Teams](#)
- [Lumen optimizes processes by 90% and scales innovation across the organization with Managed Environments](#)
- [Kao uses Power Apps to boost frontline worker efficiency by 480 hours every month](#)
- [Call Dataverse actions directly in Power Fx](#)



Get a push notification when you receive an email from your boss



Send a customized email when a new SharePoint list item is added

By Microsoft

Automated  
621513



Save Office 365 email attachments to OneDrive for Business

By Microsoft

Automated  
952283

# Developer and GitHub



## GitHub Blog and Changelog

- [GitHub Security Lab audited DataHub](#): Here's what they found
- [Projects on GitHub Mobile](#) :: Generally Available
- [Organization Audit Logs include IP Addresses](#) :: Public Beta
- [Changes to the Code Search API](#)
- [Use multi-repository variant analysis \(beta\) to run CodeQL queries at scale](#)
- [GitHub Enterprise Server 3.8](#) :: Generally Available
- [Custom repository roles API](#) :: Generally Available



## Microsoft Developer Blogs:

- [Azure Developers - .NET Day 2023](#)
- [Developing Accessible Apps with Visual Studio](#)
- [GitHub Copilot in Visual Studio 2022](#)
- [Introducing F# Inline Type & Parameter Name Hints in Visual Studio](#)
- [What's new for the WinForms Visual Basic Application Framework](#)

## How to automate your dev environment with dev containers and GitHub Codespaces

GitHub Codespaces enables you to start coding faster when coupled with dev containers. Learn how to automate a portion of your development environment by adding a dev container to an open source project using GitHub Codespaces.

Kedasha Kerr March 6, 2023

## How GitHub Docs' new search works

GitHub Docs recently changed its site-search to Elasticsearch. Here's how it was implemented.

Peter Bengtsson March 9, 2023

## Introducing GitHub vulnerability management integrations for security professionals

Learn about using GitHub Advanced Security alerts with vulnerability management tools. Check out the integrations and learn about how to get started.

Alexander De Michieli & Griffin Ashe

March 10, 2023

## A beginner's guide to learning to code with GitHub Codespaces

When you're new to coding, it's easy to get stuck completing endless tutorials. You can apply what you've learned (and learn even more) through GitHub Codespaces. The best part is you don't need a powerful computer to get started.

Rizel Scarlett February 22, 2023

## Generate images with AI using Stable Diffusion, C#, and ONNX Runtime

March 9, 2023

Luis Quintanilla, Cassie Breviu

Stable Diffusion is an AI model used to generate images based on text prompts. Learn about the ONNX Runtime, Stable Diffusion, and how you get started using AI to generate your own images with your preferred .NET technologies

## 10 things you didn't know you could do with GitHub Codespaces

Unlock the full potential of GitHub Codespaces with these 10 tips and tricks! From generating AI images to running self-guided coding workshops, discover how to optimize your software development workflow with this powerful tool.

Rizel Scarlett February 28, 2023

## Application security orchestration with GitHub Advanced Security

Learn how teams can leverage the power of GitHub Advanced Security's code scanning and GitHub Actions to integrate the right security testing tools at the right time.

Jose Palafox & Daniel Shanahan March 8, 2023

## Enabling real-time dashboards: Power BI DirectQuery mode and Dataflows support in Azure Cosmos DB

March 14, 2023

Rodrigo Souza , Revin Chalil

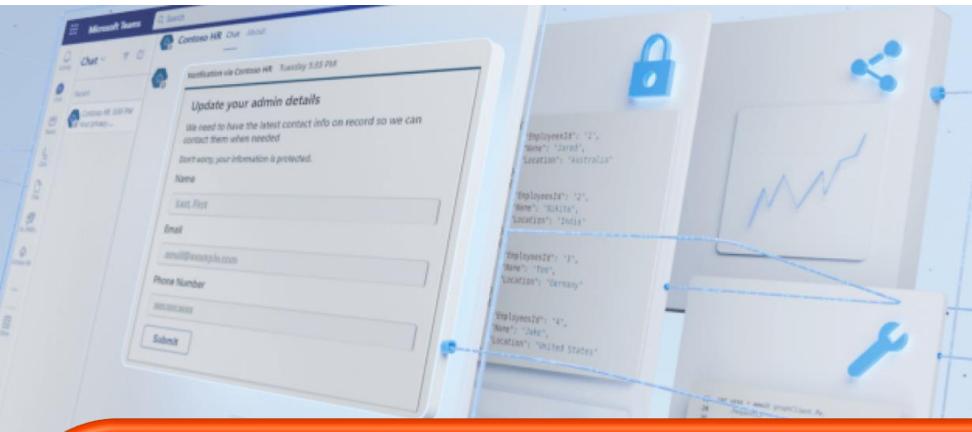
The Azure Cosmos DB V2 Connector for Power BI, with support for querying the Azure Cosmos DB transactional store in both DirectQuery and Import modes, is now in preview. The new V2 connector also supports Azure Cosmos DB as a data source in Power BI dataflows. It's available now on Power BI components including Desktop, Power BI service, ...

## Raising the bar for software security: GitHub 2FA begins March 13

On March 13, we will officially begin rolling out our initiative to require all developers who contribute code on GitHub.com to enable one or more forms of two-factor authentication (2FA) by the end of 2023. Read on to learn about what the process entails and how you can help secure the software supply chain with 2FA.

Laura Paine & Hirsch Singhal March 9, 2023

# Office Developer Blogs and Microsoft 365 Dev Center



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

- [Update to Windows 11 – AI Powered Bing and Search to Taskbar](#)
- [Introduction to Microsoft Graph for Android](#)
- [Hack Together Recap : Microsoft Graph and .NET final overview](#)
- [Teams Toolkit for Visual Studio Code v5.0 :: Pre-Release](#)
- [New Microsoft Graph Planner API capabilities :: Generally Available](#)
- [Apps in Teams Channel Meetings :: Generally Available](#)
- [Upcoming Preview Word APIs :: Preview](#)
- [Updated Excel Tutorial](#)
- [Taking control of your application's title bar](#)
- [Math Speech Strings and Localization](#)
- [Built-in model pre-processing with ONNX](#)
- [On-device machine learning with ONNX](#)

Add-in Support for New Outlook

[View video >](#)

Teams Conversation Bot

[View code sample >](#)

Microsoft Teams App Camp - Add a Messaging Extension - Lab

[View video >](#)

## 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](#)

## 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 >](#)

## 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 >](#)



## Explore Office JavaScript API using Script Lab

Article • 03/09/2023 • 3 minutes to read • 8 contributors

[Feedback](#)

Script Lab is a free tool for anyone to learn how to develop Office Add-ins. Script Lab lets you to code and run the Office JavaScript APIs alongside your document in Excel, Outlook, PowerPoint, and Word. Use this convenient tool to prototype and verify the functionality

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

[Get Script Lab for Outlook](#)

# Azure



# Azure Updates

## Azure Announcements : Azure Blog

### VMs, Features, & Announcements

- [What's new in Azure Data & AI: Azure is the best place to build and run AI workloads](#)
- [Generally available updates for early March 2023](#)
- [Azure previews powerful and scalable virtual machine series to accelerate generative AI](#)
- [Microsoft's Florence foundation model](#) - Announcing a renaissance in computer vision AI :: Public Preview
- [ChatGPT is now available in Azure OpenAI Service](#)
- [Disclosure: In-tree disk and file drivers will no longer be supported starting in Kubernetes v1.26](#)
- [Azure for Operators products and partner programs released](#) :: Preview
- [Online live resize of persistent volumes](#) :: Generally Available
- [Azure NetApp Files now support large volumes up to 500TiB in size](#) :: Public Preview
- [Azure Functions Linux Elastic Premium plan increased maximum scale-out limits](#) :: Generally Available
- [50K relationships per twin support in Azure Digital Twins](#) :: Generally Available

### Data, AI, Security, & Availability

- [Ephemeral OS disks supports encryption at host using customer managed keys](#) :: Generally Available
- [Collect Syslog from AKS nodes using Azure Monitor - Container Insights](#) :: Public Preview
- [Illumio for Azure Firewall](#) :: Generally Available
- [Immutable vaults for Azure Backup](#) :: Generally Available
- [Azure Monitor Ingestion client libraries](#) :: Generally Available
- [Confidential containers on ACI](#) :: Public Preview
- [Scale improvements and metrics enhancements on Azure's regional WAF](#) :: Generally Available

### Operations & Benefits

- [Azure Digital Twins in West US 3, Qatar, Japan, and Korea](#) :: Generally Available
- [Azure Monitor managed service for Prometheus now supports querying PromQL](#)
- [Burstable compute for single node configurations for Azure Cosmos DB for PostgreSQL](#) :: Generally Available
- [Login and TDE-enabled database migrations with Azure Database Migration Service](#) :: Public Preview

Empowering operators and enterprises with the next wave of Azure for Operators services shaping the future of cloud

Sunday, February 26, 2023

At Microsoft, our aim is to be the most trusted co-innovation partner through every stage of the digital evolution, committed to working with communications service providers (CSPs), enterprises, developers, and ISVs alike on the future of a ubiquitous cloud that unlocks the true potential of modern connected apps.

[Jason Zander](#), Executive Vice President, Strategic Missions and Technologies

### Azure previews powerful and scalable virtual machine series to accelerate generative AI

Monday, March 13, 2023

In the competitive race for AI innovation, pushing the envelope requires both experience and leadership-class supercomputing scalability. Powerful and massively scalable infrastructure is paramount as the complexity and size of AI models accelerate.

[Matt Vegas](#), Principal Product Manager, Azure HPC+AI

# Azure Services Directory



## Azure Operator Nexus PREVIEW

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

### Azure Operator Nexus (Preview)

- ❖ Carrier-grade, next-generation hybrid cloud platform for telecommunication operators.
- ❖ Secure and Govern with world-class SecOps
- ❖ Purpose-built for operators' network-intensive workloads and mission-critical applications.
- ❖ Automates lifecycle management of the infrastructure, including [network fabric](#), bare metal hosts, and storage appliances, as well as tenant workloads for Container Network Functions and Virtualized Network Functions.
- ❖ Meets operators' security, resiliency, observability, and performance requirements
- ❖ [AT&T Runs 5G Near Edge network functions on Azure Operator Nexus](#)



## Azure Operator Service Manager PREVIEW

Simplify the deployment, upgrade, and management of complex operator services

### Azure Operator Service Manager

- ❖ Abstract modeling of multiple-vendor services composed of network function software and configuration
- ❖ Use analytics for intelligent orchestration
- ❖ Unify Service Orchestration : end-to-end Operations
- ❖ Extensible edge agents, as part of a site convergence layer, to support vendors' various provisioning methods
- ❖ Use strict software image and service artifact supply chain policy compliance to prevent actions by bad actors
- ❖ Provision complex service configurations using roles and templates
- ❖ Achieve zero-touch, closed-loop automation by coupling service orchestration with network analytics.



## Azure Operator Insights PREVIEW

Remove data silos and deliver business insights from massive datasets

### Azure Operator Insights (Preview)

- ❖ Understand the health of your network – ingest raw network data to provide actionable insights.
- ❖ Understand and transform your customer experiences with fast analytical insights.
- ❖ Explore all network datasets at varying levels of granularity.
- ❖ Leverage operator-specific AI and ML models to detect anomalies or tune performance.
- ❖ Quickly train and deploy models for rapid testing and network adjustments
- ❖ Securely manage access to ensure that only authorized users have the right access to the right datasets.

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



## New Microsoft Cloud for Financial Services features accelerate transformation for wealth management >

March 13, 2023 • 4 min read



By [Sean Foley](#), Financial Services Chief Technology Officer, Microsoft

Microsoft Cloud for Financial Services empowers wealth management firms and other financial services providers to implement the right digital strategies for their businesses. By bringing together the best of the Microsoft Cloud and solutions from our global partner ecosystem, Microsoft Cloud for Financial Services enables the delivery of personalized financial solutions at scale to all [Read more](#)



## Announcing Microsoft Azure Data Manager for Agriculture: Accelerating innovation across the agriculture value chain >

March 14, 2023 • <1 min read



By [Kees Hertogh](#), General Manager, Global Industry Product Marketing

The agriculture industry is at a turning point. While food may seem plentiful in many global regions, the number of people going hungry has continued to increase over the last nine years. [Read more](#)



## MWC 2023: Transforming telco to techco with the Microsoft Cloud >

February 22, 2023 • 3 min read



By [Francesco Venturini](#), Corporate Vice President, Media and Communications

Microsoft is excited to return to Mobile World Congress, February 27 to March 2, 2023, in Barcelona. With an approach rooted in partnership, we look to inspire and enable this telco transformation at the world's largest and most influential connectivity event. [Read more](#)



## CERAWeek 2023: Microsoft launches the Energy Transition Center of Excellence >

March 7, 2023 • 6 min read



By [Darryl Willis](#), Corporate Vice President, Worldwide Energy and Resources Industry

Energy organizations continue to face the complex challenge of meeting the world's growing demand for energy while reducing emissions. But they're not facing these challenges alone. Innovators across industry, government, and technology are joining forces and collaborating to find answers. Today, the energy industry has unprecedented opportunities to design low-carbon systems and ensure equitable, affordable [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.

### GreenBiz 23: 3 reasons to be optimistic about sustainability progress >

February 23, 2023 • 4 min read

By [Rosie Mastrandrea](#), Senior Director, Sustainability Product Marketing

Sustainability decision-makers came together to find new approaches and solutions to topics including net zero, circular economy, social justice, biodiversity, and resilient supply chains. [Read more](#)



### Xbox offers first carbon aware console

Xbox is now the first gaming console to offer carbon aware game downloads and updates. By being carbon aware, Xbox consoles are reducing their carbon footprints by optimizing updates and downloads to run at a time when each console can use the most renewable energy.

[Explore what we're doing >](#)



### Carbon capture on an industrial scale in Norway

Norway's national effort on carbon capture and storage, or CCS, is a rare example of collaboration on a grand scale to pursue climate goals. Norwegian government officials; Aker Carbon Capture; three oil-and-gas companies; Norcem; and Microsoft are among the disparate players working together to create a system to capture, transport, and store carbon dioxide.

[Read about the collaboration >](#)



### Microsoft Cloud for Sustainability: Catalyzing progress with our global partners >

February 28, 2023 • 4 min read



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

Learn about Microsoft Cloud for Sustainability partner solutions that are helping organizations drive transformative decision-making, innovation, and better business outcomes. [Read more](#)

### Plan and prepare for Microsoft Cloud for Sustainability in 2023 release wave 1

Article • 03/01/2023 • 3 minutes to read • 3 contributors

#### Important

The 2023 release wave 1 plan covers all new functionalities planned to be delivered to market from April 2023 to September 2023. In this article, you'll find the product overview and what's new and planned for Microsoft Cloud for Sustainability.





# 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.

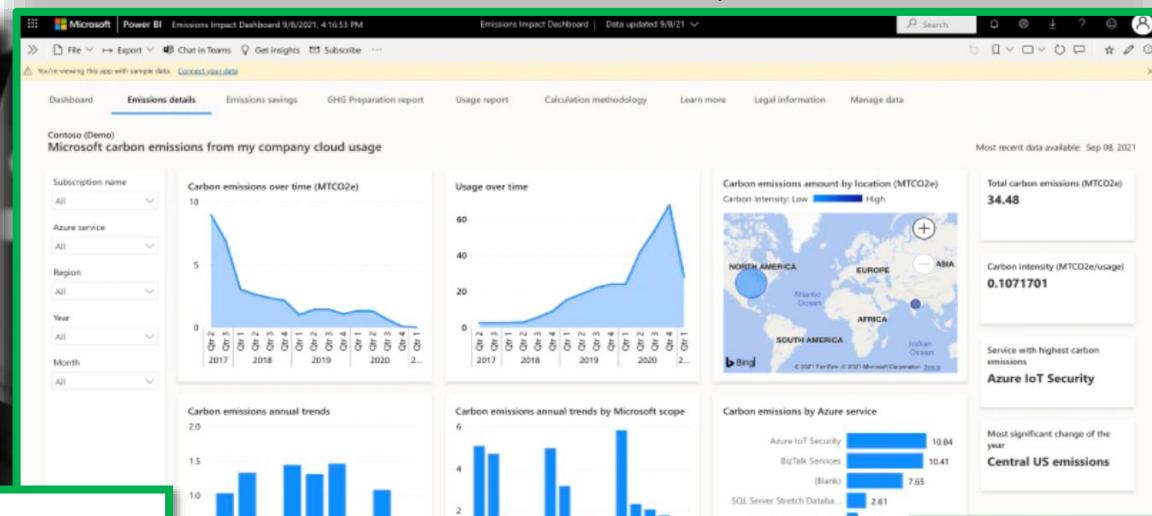
[Get started >](#)

## 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 >](#)

# Microsoft Research Blog



## Research Focus: Week of March 6, 2023 >

March 8, 2023

Welcome to Research Focus, a series of blog posts that highlights notable publications, events, code/datasets, new hires and other...

### NEW RESEARCH

#### Hide and seek with Spectres

Attack methods like Spectre exploit speculative execution, one of the key performance optimizations of modern CPUs. Microsoft researchers are working on a [novel testing tool](#) that can automatically detect speculative leaks in commercial (back-box) CPUs. However, until now the testing process has been slow, which has hindered in-depth testing campaigns and the discovery of new classes of leakage.

In a new paper: [Hide and Seek with Spectres: Efficient discovery of speculative information leaks with random testing](#), researchers from Microsoft and academic collaborators **identify the root causes of the performance limitations in existing approaches—and propose techniques to overcome them**. These techniques improve the testing speed over the state of the art by up to two orders of magnitude.

These improvements enabled the researchers to run a testing campaign of unprecedented depth on Intel and AMD CPUs. In the process, they discovered two types of previously unknown speculative leaks (affecting string comparison and division) that have escaped previous manual and automatic analyses.

The paper that describes the novel techniques will appear at [IEEE Symposium on Security and Privacy 2023](#).

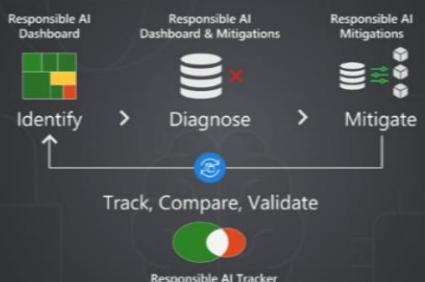
[Read the paper >](#)

## MICROSOFT RESEARCH

RESEARCH FOCUS 11 | WEEK OF MARCH 6, 2023

In this issue:

*New research | Hide and seek with Spectres*



**Responsible AI: The research collaboration behind new open-source tools offered by Microsoft >**

February 27, 2023

As computing and AI advancements spanning decades are enabling incredible opportunities for people and society, they're also raising questions about responsible development and deployment. For example, the machine learning models powering AI systems may not perform the same for everyone or every condition, potentially leading...

## ChatGPT for Robotics: Design Principles and Model Abilities

February 20, 2023

Share this page [f](#) [t](#) [in](#) [s](#) [r](#)

[Read the paper >](#)

We extended the capabilities of ChatGPT to robotics, and controlled multiple platforms such as robot arms, drones, and home assistant robots intuitively with language.



# Microsoft Quantum

Get to know the world's first full-stack, open cloud quantum computing ecosystem

## Azure Quantum PREVIEW

The most innovative quantum computing and optimization solutions converge in a single marketplace quantum service



```
/// # Summary
/// This operation applies Grover's algorithm
/// inputs to an operation to find a particular
operation SearchForMarkedInput (nQubits : INT) :
    using (qubits = Qubit [nQubits]) {
        // Initialize a uniform superposition over all states.
        PrepareUniform(qubits);
        // The search itself consists of repeatedly
        // marked state and our start state, which we
        // do as a for loop.
        for (idxIteration in 0...NIterations (nQubits))
            ReflectAboutMarked(qubits);
            ReflectAboutUniform(qubits);
    }
    // Measure and return the answer.
    return ForEach(MResetZ, qubits);
}
```

### Grow your quantum skills

Join the growing global community of experts, enthusiasts, and quantum computing companies by learning the fundamentals of quantum computing concepts, operations, and Q# programming. Get started with a wide variety of learning resources for developers, researchers, and students, including free, self-paced Microsoft Learn courses and open-source GitHub katas.

[Start learning](#)

### Optimization

Optimization solvers that run on classical hardware.

LEARN  
Code Samples  
MS Learn

CODE  
Visual Studio  
VS Code  
Jupyter Notebooks  
Python IDE

USE  
Python SDK  
Optimization API

SOLVE  
Optimization  
solvers

RUN  
CPUs, FPGAs, GPUs

10Bit

Honeywell

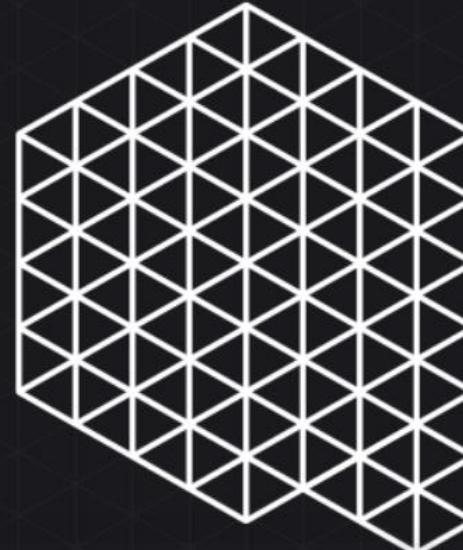
TOSHIBA

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Microsoft

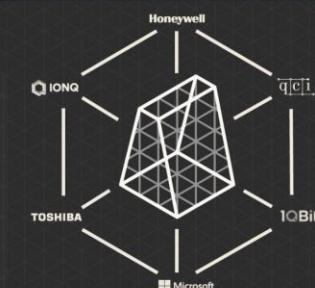
### Optimization

Solve optimization problems on classical hardware faster and better using algorithms inspired by physical processes.



### Building a scalable quantum system

Learn how Microsoft is leading the way to scalable, accessible quantum computing with worldwide research teams and partnerships



### Unified development interface

With Azure Quantum and its [quantum development kit](#), what could be a heterogenous hardware and software set of solutions is unified. Your development investments are protected in a rapidly evolving technological landscape.

Microsoft and its Partners ensure hardware and software innovations are brought to you with minimal to no change to your code base.

### Microsoft Quantum Network

The Microsoft Quantum Network is a community of pioneering individuals and organizations working together to develop practical solutions, grow talent through education, and build a worldwide quantum partner ecosystem



# Showcase of the Month



## IT Showcase

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



# Microsoft Showcase Series



## Inside Track

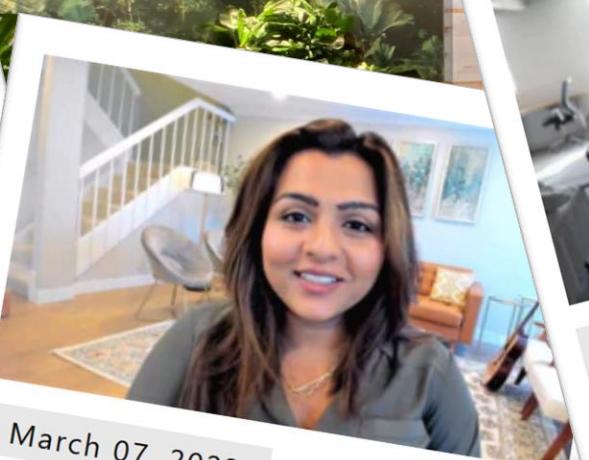
Discover the inside story of how Microsoft Digital is powering, protecting and transforming Microsoft, helping you learn from our experiences and accelerate your own transformation.



March 09, 2023

Driving adoption of Microsoft Viva at Microsoft: Lessons learned

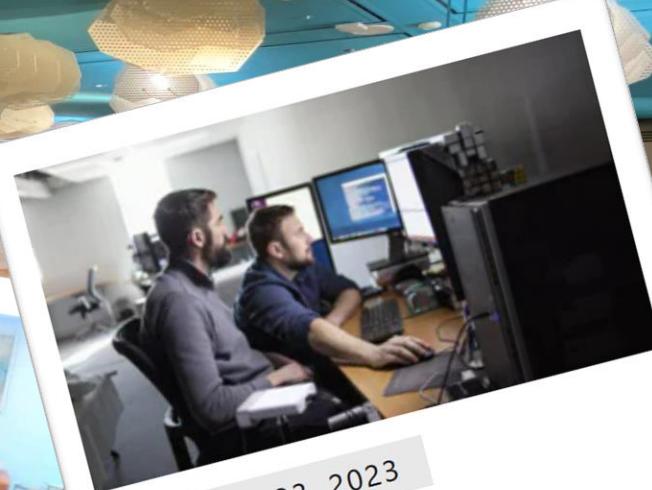
[READ BLOG >](#)



March 07, 2023

Transforming Microsoft buildings with IoT technology and indoor mapping

[READ BLOG >](#)



February 23, 2023

Improving security by protecting elevated-privilege accounts at Microsoft

[READ BLOG >](#)



February 22, 2023

Designing a modern service architecture for the cloud

[READ BLOG >](#)

# Microsoft Learning and Training:



## Browse all learning paths and modules

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

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

Microsoft Virtual Training Days

# Microsoft Events and Training: Updates



## Microsoft Virtual Training Days

## Events Catalog

## Microsoft Ignite

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

[Get notified >](#)

TRAINING

### Discover your path

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Timezone: EDT

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- Quality data sets and visualizations
- Data analysis software tools

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

Skills you'll learn:

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- Requirements for gathering and analysis
- Data science basics

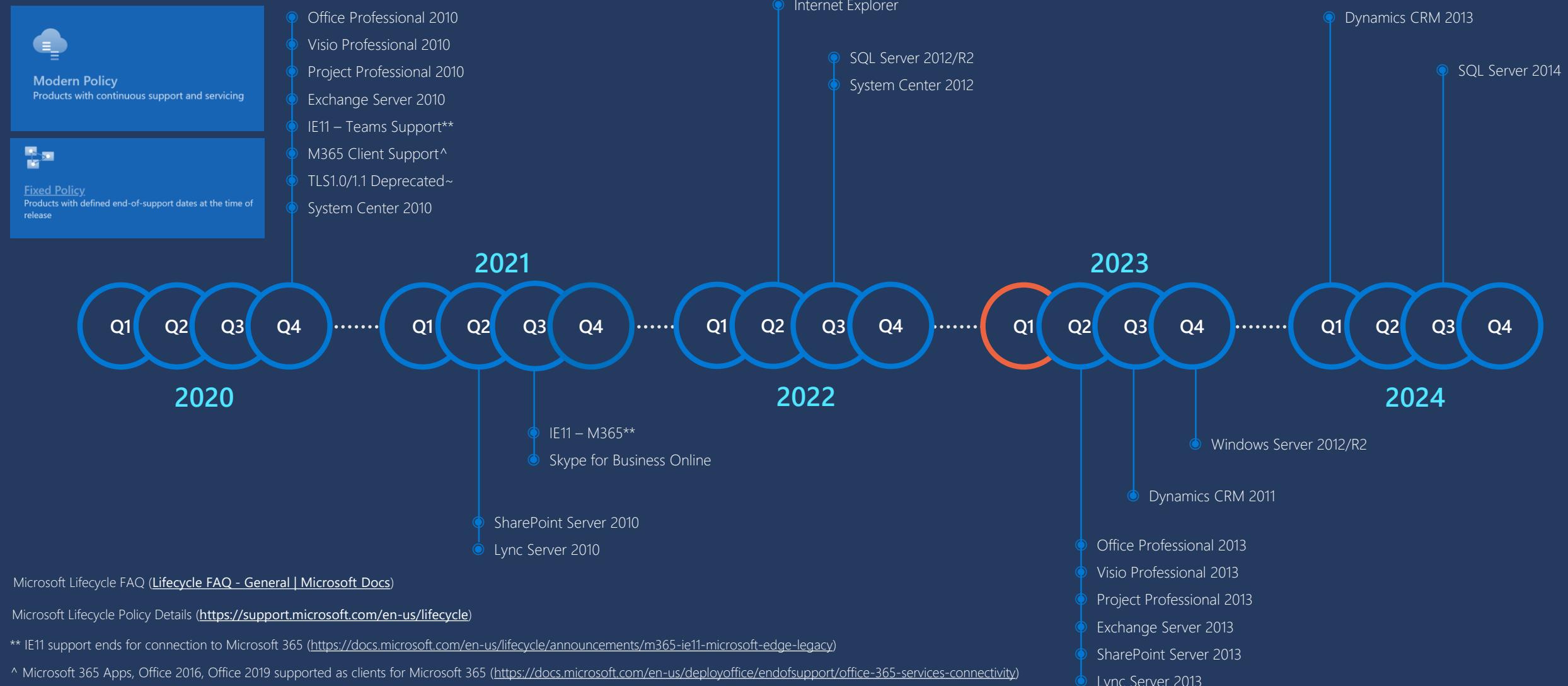
[Earn a Career Essentials in Business Analysis Professional Certificate](#)

# Product Lifecycles

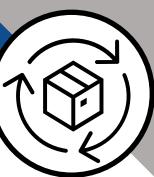




# End of Service Roadmap to 2024



# 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

## Announcements

- ➡ 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
- ➡ SQL Server 2012 and Windows Server 2012/2012 R2 end of support
- ➡ Internet Explorer 11 desktop app support ended for certain versions of Windows 10

See more >

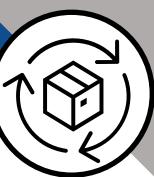
## Lifecycle data export

### Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

# 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>	May 9, 2023
<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

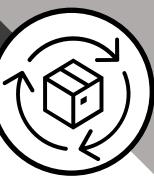
# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



## 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



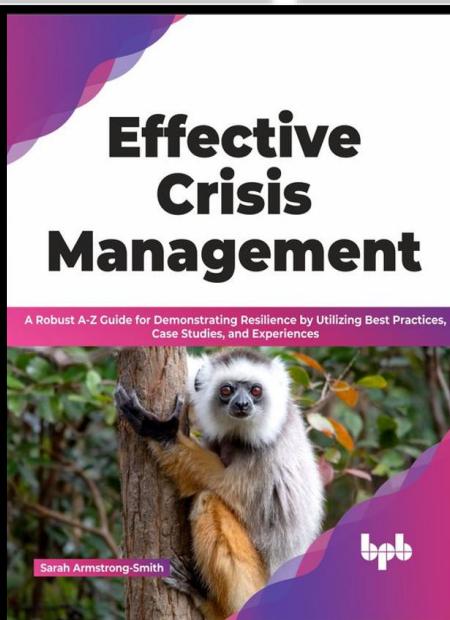
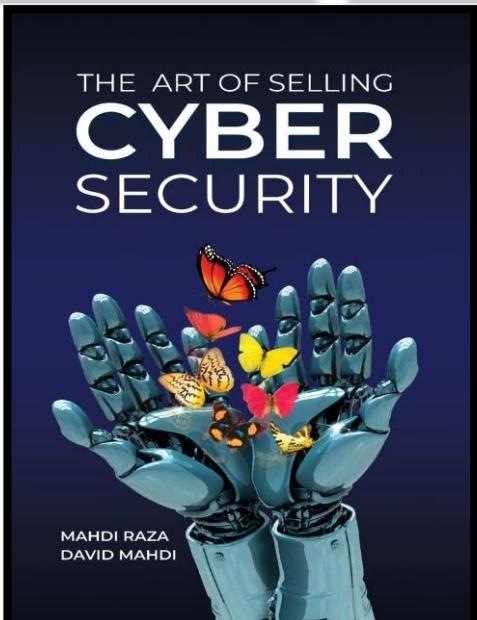
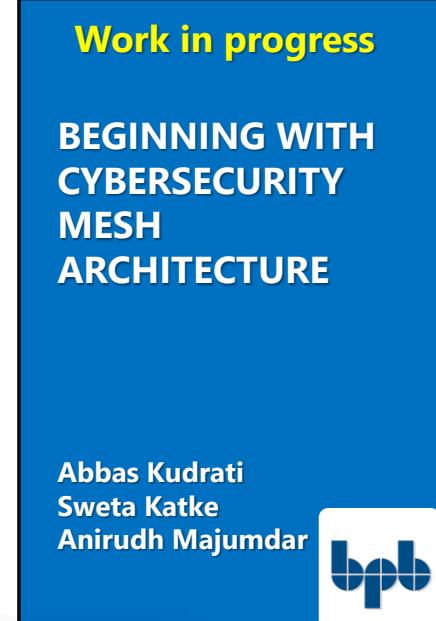
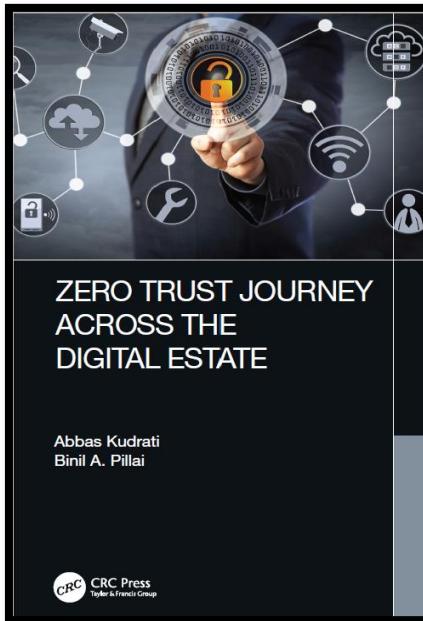
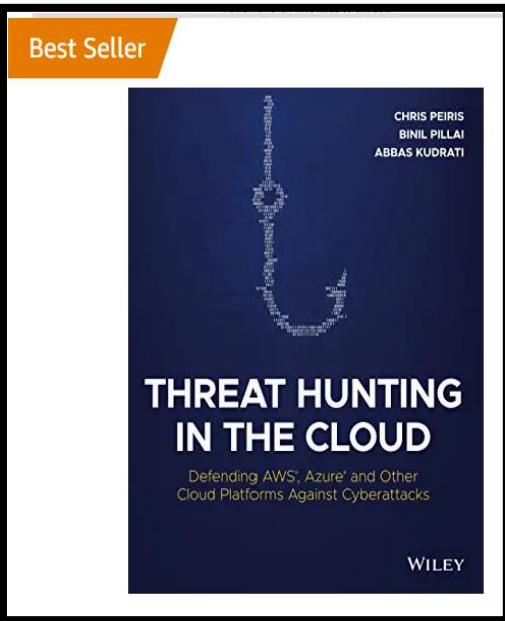
Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless 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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