



# Monthly Technical Briefing

## JANUARY 2023



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

# Microsoft

- [CES 2023](#)
- [NRF 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

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

## The top cybersecurity threats, trends, and tactics of 2022

Dear [Insert Name],

As your [Insert Title/Business Relationship], I thought that this might be of interest to you.

As the world adjusts to new ways of working and living where hybrid and remote are more the norm than exception, governments and corporations have to look into securing more access points than ever before. With the rise in sophistication and frequency of cyberattacks, it's now more imperative than ever to have a strong cyber defense and resiliency against the rapidly shifting threats in the virtual world.

In this upcoming Security Hour webinar, you'll hear from **Abbas Kudrati, Director and Chief Cybersecurity Advisor at Microsoft**, as he shares his views and insights from the recently released **Microsoft Digital Defense Report 2022**. Don't miss this exclusive opportunity to learn more about the state of cybercrime, nation state threats, cyber influence operations, and more.

### The current state of cybercrime:

- One-third of targets are successfully compromised by criminals using human operated ransomware
- North Korea has targeted defense and aerospace companies, cryptocurrency, news outlets, defectors, and aid organizations
- Attacks against remote management devices are on the rise, with more than 100 million attacks observed in May of 2022
- The vast majority of successful cyberattacks could be prevented by using basic security hygiene

### Microsoft Security Hour

A year of insights for a stronger digital defense

Wednesday, 18 January 2023 | 11am – 12pm (GMT +8)

[Register now to secure your place >](#)



### Microsoft Security Hour: A year of insights for a stronger digital defense



#### Recommended for:

CISOs, CIOs, CTOs, and Security Professionals and Leaders

#### Meet our speaker:



**Abbas Kudrati**

Director and Chief Cybersecurity Advisor,  
Microsoft



JAN 5-8, 2023

LAS VEGAS, NV & DIGITAL



Consumer  
Technology  
Association®

TOPICS ABOUT SESSIONS & EVENTS EXHIBITS LOGISTICS

# 2023 Schedule

Explore your options to connect, learn and be inspired at CES.

## CES 2023 Exhibitor Directory

# B E H I N D T H E

JAN 5-8, 2023  
LAS VEGAS, NV & DIGITAL



Consumer  
Technology  
Association®



# NRF2023

RETAIL'S BIG SHOW

January 14: Opening Party  
January 15-17: Conference & Expo  
Jacob K. Javits Convention Center | NYC



# BREAK THROUGH

Jan. 14: Opening Party | Jan. 15-17: Conference & Expo  
Jacob K. Javits Convention Center | New York City

## WHERE RETAIL GOES TO GET REALLY AHEAD

Register now to get inspiration from the biggest names in retail and beyond, experience breakthrough technology firsthand, forge partnerships that break you away from the pack and make a plan for action that not only sets you up for success but sets you apart from the others.



## Breakthrough discoveries

New in 2023! The Consumer Product Showcase offers retail buyers and merchandisers the chance to meet with carefully selected small business owners to learn about their businesses and explore their products. The Consumer Product Showcase is open to all attendees.

This new program is sponsored by American Express and SAP.

[LEARN MORE](#)

## RETAIL'S BIG SHOW: BY THE NUMBERS

No matter what the world has thrown at us, NRF has been there to unite, guide and provide breakthrough insights to anyone and everyone in the industry. As the leading voice for retail, we're the only organization able to bring our whole community together.

3  
DAYS

175+  
SESSIONS

350+  
SPEAKERS

800+  
EXHIBITORS

# BREAK THROUGH

NRF2023  
RETAIL'S BIG SHOW

[REGISTER NOW](#)

JANUARY 15-17 | NEW YORK CITY  
Don't miss out on your big break!

# the path to quantum at scale

## Microsoft Quantum Innovator Series



Get the inside, first-hand account of Microsoft's strategy to scaled quantum computing. In this series, you will hear directly from Microsoft's Azure Quantum scientists and leaders about the path to quantum at scale and how to get involved today.

### Next up



Dr. Chetan Nayak

#### Why and what is the future of the topological qubit?

February 28, 2023

Time: 9:00 AM PT | 12:00 PM ET

Duration: 30 minutes

Format: Webinar

[Register now](#)

Dr. Matthias Troyer

#### What kind of problems can we solve today with quantum simulation?

April 20, 2023

Time: 9:00 AM PT | 12:00 PM ET

Duration: 30 minutes

Format: Webinar

### Upcoming episode



Dr. Krysta Svore

#### Have you started developing for practical quantum advantage?

January 31, 2023

Time: 9:00 AM PT | 12:00 PM ET

Duration: 30 minutes

Format: Webinar

Join us to learn how to prepare for practical quantum advantage today. Participate in live Q&A chat with the Azure Quantum Team and be one of the first to hear about recent advancements.

- Learn what type of end-to-end system is required for scalable quantum computing and what can be done now to get ready for it.
- See the new Azure Quantum Resource Estimator - the first end-to-end toolset that provides estimates for the number of logical and physical qubits as well as runtime required to execute quantum applications on fault-tolerant quantum computers.
- Understand the number of qubits required for a quantum solution and the differences between qubit technologies that allow innovators to prepare and refine their quantum solutions to run on future scaled quantum machines and ultimately accelerate their impact.
- Explore how Microsoft is empowering innovators today by co-designing tools to optimize quantum solutions running programs on today's diverse and maturing quantum systems and preparing you for tomorrow's scaled quantum compute.

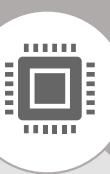
[Register now](#)

# 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 ▾

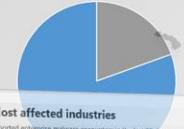
### Most affected industries

Reported enterprise malware encounters in the last 30 days

#### Education

Show all industries >

Devices with encounters:  
6,486,116 (80.47%)



December 19, 2022 • 9 min read

### Gatekeeper's Achilles heel: Unearthing a macOS vulnerability

Microsoft discovered a vulnerability in macOS, referred to as "Achilles", allowing attackers to bypass application execution restrictions enforced by the Gatekeeper security mechanism.

[Read more >](#)

**Top threats:**  
Adware:Win32/DealPly!MSR  
Backdoor:MSIL/AsyncRAT.K!MTB  
Backdoor:PHP/Webshell.S  
Backdoor:Win32/Farfli.O  
Backdoor:Win32/Xtrat

Education ▾

December 15, 2022 • 8 min read

### MCCrash: Cross-platform DDoS botnet targets private Minecraft servers

The Microsoft Defender for IoT research team analyzed a cross-platform botnet that infects both Windows and Linux systems from PCs to IoT devices, to launch distributed denial of service (DDoS) attacks against private Minecraft servers.

[Read more >](#)

### Worldwide

**81,458,473 devices with encounters**

December 14, 2022 • 3 min read

### Cyber Signals: Risks to critical infrastructure on the rise

Today, the third edition of Cyber Signals was released spotlighting security trends and insights gathered from Microsoft's 43 trillion daily security signals and 8,500 security experts.

### Microsoft Digital Defense Report 2022

Illuminating the threat landscape and empowering a digital defense. Learn more below.

[Read the executive summary](#)

[Read the report](#)



January 9, 2023 • 7 min read

## Microsoft Entra: 5 identity priorities for 2023

Organizations are looking for opportunities to do more with less. By adopting the latest identity innovations, you can better protect both your digital estate and your budget.

[Read more >](#)

December 14, 2022 • 3 min read

### Cyber Signals: Risks to critical infrastructure on the rise

Today, the third edition of Cyber Signals was released spotlighting security trends and insights gathered from Microsoft's 43 trillion daily security signals and 8,500 security experts.

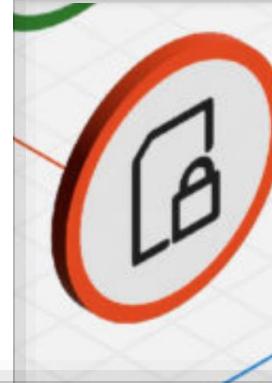
[Read more >](#)

December 21, 2022 • 12 min read

### Microsoft research uncovers new Zerobot capabilities

The Microsoft Defender for IoT research team details information on the recent distribution of a Go-based botnet, known as Zerobot, that spreads primarily through IoT and web-application vulnerabilities.

[Read more >](#)



December 19, 2022 • 6 min read

### How to build a secure foundation for identity and access

Former IDC Program Vice President Christina Richmond shares insights on digital trust and identity protection.

December 13, 2022 • 4 min read

### 4 things to look for in a multicloud data protection solution

Learn four must-haves for multicloud data protection, including how an integrated solution provides greater scalability and protection across your multicloud and hybrid environment.

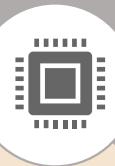
[Read more >](#)

December 12, 2022 • 10 min read

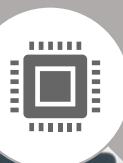
### IIS modules: The evolution of web shells and how to detect them

This blog aims to provide further guidance on detecting malicious IIS modules and other capabilities that you can use during your own incident response investigations.

[Read more >](#)



# Manage Multi-cloud Identity Infrastructure with Microsoft Entra:



## QUICK LINKS:

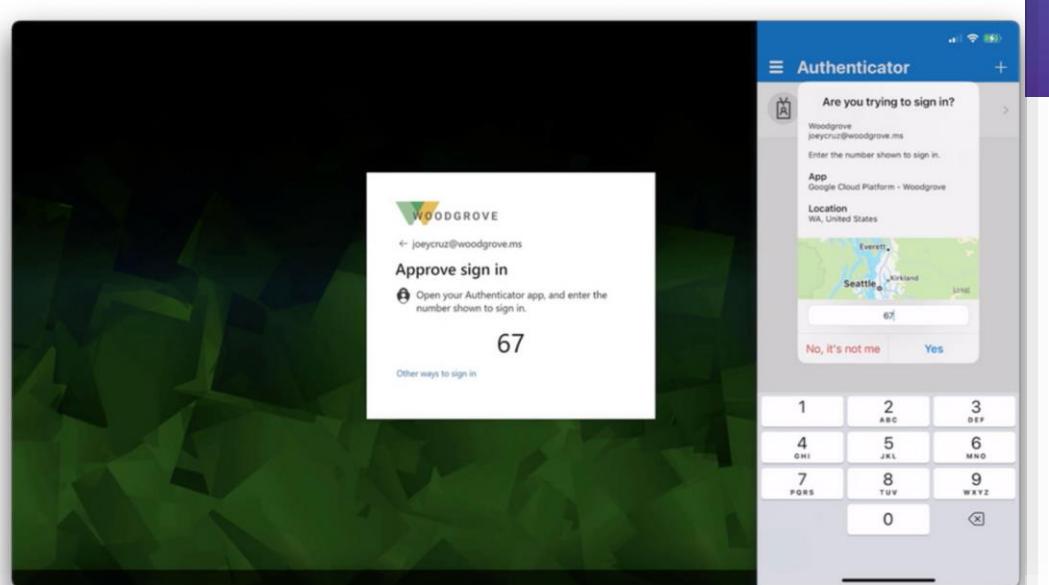
- 00:00 — Introduction
- 00:25 — Microsoft Entra admin center
- 01:07 — Secure access to Google services with passwordless authentication using Microsoft Entra
- 02:20 — Access all of your cloud and on-prem apps from myapps.microsoft.com
- 03:13 — Supported authentication methods
- 04:24 — Verified IDs to automate new user verification and access provisioning
- 05:40 — Workload Identity management for secure app to app communication
- 06:56 — Privileged Identity Management to protect admin accounts and more
- 07:41 — Permissions Management to monitor and protect Azure, AWS and GCP in one place
- 08:20 — Wrap up



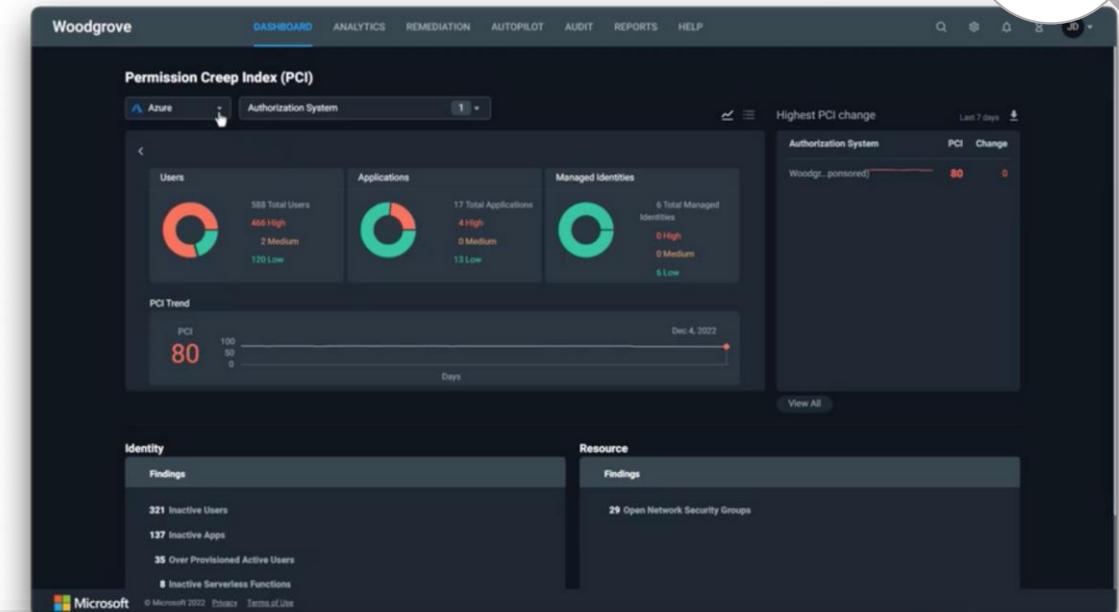
## Link References:

Try Microsoft Entra at <https://entra.microsoft.com>  
Check out our docs at <https://aka.ms/EntraDocs>

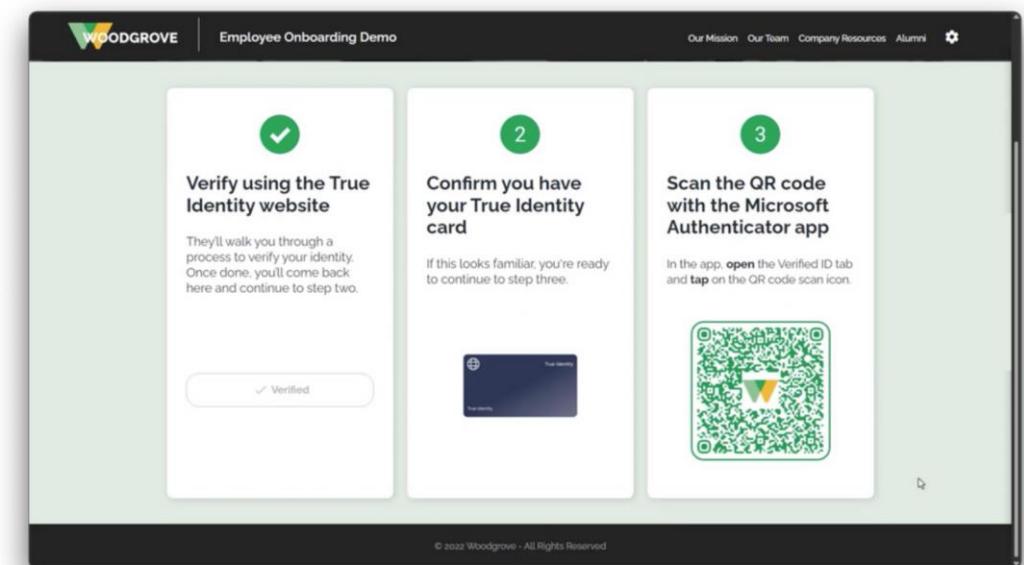
Passwordless auth for non-Microsoft services.



Amazon Web Services, Google Cloud Platform and Azure protection and monitoring in one place.



Credential verification from third-party digital IDs — automated to remove the manual work.





# Microsoft 365 update information

# Microsoft Teams Blog:



What's New in Microsoft Teams | December 2022

## What's New in Microsoft Teams | December 2022

Holly Lehman on Dec 30 2022 06:00 AM

Can you believe it's already December of 2022? The new year is peeking in, and we are so excited about what 2023 will bring...

### New for This Month:

- [Microsoft Teams Premium :: Preview Available](#)
- [Approvals as PDFs can be saved, printed and transferred](#)
- [Adobe Acrobat streamlines the PDF experience in Teams](#)
- [Bring Microsoft Whiteboard into an ad-hoc meeting](#)
- [Frontline workers using shared devices can use Edge and Yammer apps on Android alongside Teams](#)
- [View meeting transcripts on Microsoft Teams on Android and iOS for Government Clouds](#)
- [Redesigned share menu and Microsoft Whiteboard support for resource accounts](#)
- [Chat bubbles during meetings](#)

### Chat and Collaboration:

- [Delete Chats](#)
- [More Reactions](#)
- [Add People to a Group Chat with @mention](#)
- [Recommended people when creating a new message](#)
- [Receive all group chat messages with resource-specific consent](#)
- [Sign Language View and always-on captions in meetings](#)

### Devices:

- [Microsoft Teams Room on Android : New Touch and Collaboration experiences](#)
- [Walk up and use Microsoft Whiteboard](#)
- [Touch awareness and 4K display support](#)
- [Hardware occupancy sensor integration](#)
- [Neat Bar Pro :: Introduction](#)
- [Jabra Evolution Buds and Evolve2 55 Headset](#)
- [EPOS EXPAND version 1: Webcam and voice pickup](#)

Introducing Sign Language View for Teams Meetings

csano on Nov 17 2022 09:00 AM

Today we are pleased to announce sign language view, a new meeting experience in Microsoft Teams that helps signers – pe...



### Microsoft Teams Premium preview now available

MargiDesai on Dec 16 2022 04:13 PM

Today, we are excited to share that we are making Microsoft Teams Premium broadly available for preview as a limited tri...



### Introducing new touch and collaboration experiences on...

HenrikaLim on Dec 13 2022 08:00 AM

Earlier this year, we announced the certification of Neat Board and Yealink Meeting Board — a new form factor for Micros...

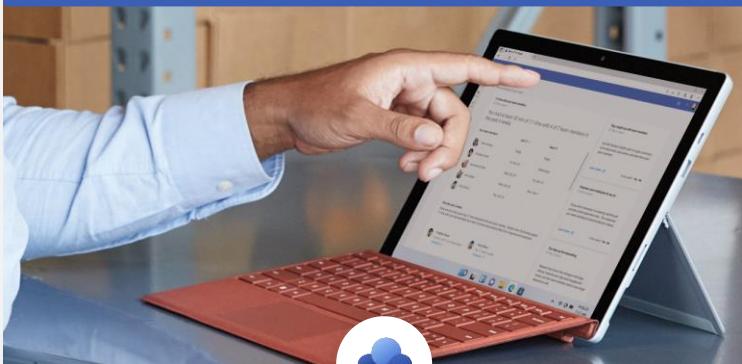
# Microsoft Viva: & Viva Blog:

# 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



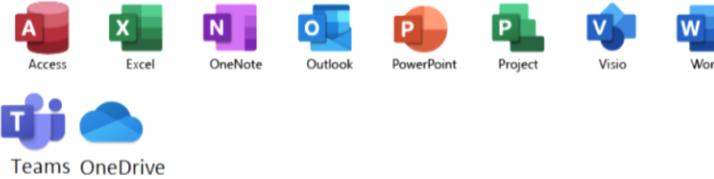
## Viva Engage

Culture & Communications

# What's New in Microsoft 365

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

What's new in your favorite Microsoft 365 app



## Exporting policy configurations from the Cloud Policy...

Chris Hopkins on Jan 06 2023 03:07 PM

The Cloud Policy service for Microsoft 365 allows you to export your policy configurations to help you with your complia...



## Helping IT admins save time and effort managing Microsoft...

BrianStoner on Jan 04 2023 10:08 AM

Learn how we're making it easier for administrators to manage Microsoft Viva!

## New Year, new Microsoft 365 Core advanced deployment gu...

JessicaGuindi in FastTrack Blog Jan 06 2023 08:18 AM

## What's New in Microsoft Excel

ShabnamMohammadi in NTA Techies Jan 04 2023 10:51 AM

# 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 365 app: [Android] Shared Device Mode for Front Line Workers (via OneAuth) Preview: January 2023  
GA: July 2023
- > Microsoft 365 admin center: Adoption Score People Experiences: Group level aggregates for Communication, Mobility & Collaboration Preview: November 2022  
GA: June 2023
- > Microsoft 365 admin center: Adoption Score People Experiences: Organizational Messages for Communication and Content Preview: November 2022  
GA: June 2023
- > Microsoft 365 admin center: Adoption Score People Experiences: Group level aggregates for Meetings and Teamwork Preview: November 2022  
GA: June 2023
- > Microsoft Graph: SharePoint Pages API Preview: January 2023  
GA: May 2023
- > Outlook: Support for Local Folders (On My Computer) in the New Outlook for Mac GA: March 2023
- > Microsoft Viva: Meeting category insights coming to the Digest email GA: March 2023
- > Microsoft 365 admin center: Windows 365 cloud PC advanced deployment guide GA: March 2023
- > Azure Active Directory: Tenant Creation Lockdown Preview: December 2022  
GA: March 2023
- > Microsoft Stream: IT admin-led migration tool to move videos from Microsoft Stream (classic) to new Stream (on SharePoint) Preview: August 2022  
GA: February 2023
- > Outlook: Updated notifications experience in Mobile GA: January 2023
- > Outlook: Notifications pane in Outlook for Windows GA: January 2023
- > Microsoft Teams: Start a Teams Chat with Distribution Groups, Mail-enabled Security Groups, and O365 Groups GA: December 2022
- > Word: Create Tasks with @mentions GA: December 2022
- > Microsoft Viva: Topics in Yammer Preview: December 2022  
GA: December 2022
- > Microsoft Teams: Chat Bubbles during Teams meetings for Microsoft Teams Rooms on Android GA: December 2022
- > Microsoft Teams: Webinar – Updated template with enhanced setup experience GA: December 2022



# Power Platform and Dynamics



**Holographic Microsoft Teams features empower hybrid collaboration in the industrial metaverse >**

December 15, 2022 • 3 min read

By [Andy Klein](#), Principal Designer, Microsoft Mixed Reality Apps

Microsoft HoloLens 2 customers are using mixed reality to expedite the ways they ensure process compliance, improve efficiency, and learn on the job with step-by-step holographic instructions in Microsoft Dynamics 365 Guides. [Read more](#)



**Enabling rapid business model innovation and growth >**

December 12, 2022 • 3 min read

By [Michele Ballinger](#), Senior Product Marketing Manager, Business Applications

Microsoft commissioned Forrester Consulting to investigate where companies are succeeding, struggling, and investing in their quest to move toward service-centric business models and project-based operations. Forrester Consulting explored how this trend impacts the global business landscape and associated business teams. [Read more](#)



**Microsoft and Futurum research: Discover insights to create experiences that customers love >**

December 8, 2022 • 5 min read

By [Neha Bajwa](#), Senior Director, Product Marketing

In partnership with Futurum, we surveyed 1,000 global business leaders, technologists, marketers, and data and customer experience professionals, and identified the challenges and opportunities that best-in-class data practices afford customer experience (CX) leaders today. The findings revealed what we had surmised going in—that companies are evolving their customer relationship management (CRM) technologies to meet changing [Read more](#)

Roadmaps and Release plans:



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

- [Power Virtual Agents' new Advanced Authoring Canvas :: Public Preview](#)
- [Deep dive into Optimize ribbon and streamline your Power BI authoring](#)
- [Power Platform build tools and Azure DevOps](#)
- [Protecting Data with Dataverse Part 2: Security from Internal Threats \(Users\)](#)
- [Coca-Cola United automates over 50,000 orders in complex SAP invoicing process with Microsoft Power Platform](#)
- [Deeper SAP Integration for the Power Platform :: Preview](#)
- [December 2022 update of Power Automate for desktop](#)
- [Center of Excellence Starter Kit with Power Virtual Agents: Govern, Monitor and Manage](#)
- [Best practices for the new advanced authoring canvas](#)



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

By Microsoft

Automated  
621513



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

By Microsoft

Automated

529681



*Save Office 365 email attachments to OneDrive for Business*

By Microsoft

Automated  
952283

# 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

# Developer and GitHub

## GitHub Blog and Changelog

- Secret scanning emits audit log events for custom pattern push protection
- Secret scanning can now push protect enterprise-level custom patterns
- Access the Audit Log REST API using scoped tokens
- Tencent Weixin now partners with GitHub to notify users if their credentials are exposed in a public repository

## Microsoft Developer Blogs:

- Beginners' crash course to build apps for Teams using Teams Toolkit for Visual Studio Code
- Bulk Operations Support in OData Web API
- Dev tunnels in Visual Studio for ASP.NET Core projects
- vcpkg Documentation Moves to Microsoft Docs Platform



### How we use GitHub to be more productive, collaborative, and secure

Our engineering and security teams have done some incredible work in 2022. Let's take a look at how we use GitHub to be more productive, build collaboratively, and shift security left.

Mike Hanley December 20, 2022

### Increase developer productivity by 22% with GitHub

#### Increase developer productivity, save time on developer onboarding, and drive ROI in 2023

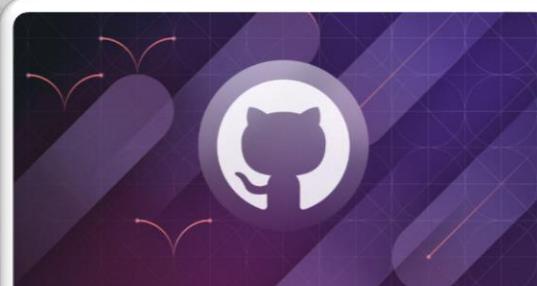
Forrester's Total Economic Impact™ study dives into how GitHub Enterprise Cloud and GitHub Advanced Security help businesses drive ROI, increase developer productivity, and save time on developer onboarding.

Jeimy Ruiz December 20, 2022

## Raising the bar for software security: next steps for GitHub.com 2FA

GitHub will require all users who contribute code on GitHub.com to enable one or more forms of two-factor authentication (2FA) by the end of 2023. Learn more about our approach, when we'll begin our rollout, and what you can expect as we begin requiring 2FA.

John Swanson December 14, 2022



### Not just flightless birds: How EMUs secure and scale identity and access management for your GitHub Enterprise

GitHub Enterprise has evolved to support the needs of enterprise administrators, corporate security teams, and individual developers who contribute to open source.

Jessi Moths & Charlene McKeown December 20, 2022



## Release Radar • November 2022 Edition

We promised we'd be back soon and here we are! There has been an incredible amount of open source projects shipping major version releases before the year wraps up. I...

Michelle Mannering December 16, 2022

## Leaked a secret? Check your GitHub alerts...for free

GitHub now allows you to track any leaked secrets in your public repository, for free. With secret scanning alerts, you can track and action on leaked secrets directly within GitHub.

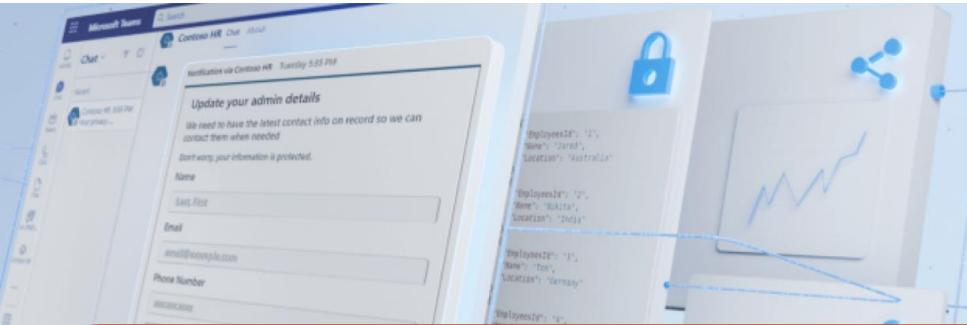
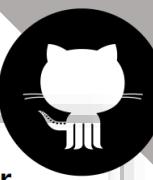
Mariam Sulakian & Zain Malik December 15, 2022

## Creating an accessible search experience with the QueryBuilder component

GitHub's search inputs have several complex accessibility considerations. Let's dive into what those are, how we addressed them, and talk about the standalone, reusable component that was ultimately built.

Lindsey Wild December 13, 2022

# Office Developer Blogs and Microsoft 365 Dev Center



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

- [10 features to jumpstart your Microsoft Teams app development](#)
- [New Microsoft Graph Developer Proxy with support for all APIs :: preview v0.3](#)
- [Microsoft Graph PowerShell v2 - half the size and speeds up automation :: public preview](#)
- [Get OneDrive data using Microsoft Graph and msal.js in an Office Add-in](#)
- [Office Add-in that supports Single Sign-on to Office, the Add-in, and Microsoft Graph](#)
- [Principles for monetizing selected Microsoft 365 APIs](#)
- [Send Adaptive Card Including Different Actions – NodeJS](#)
- [SharePoint Pages Microsoft Graph API :: Public Preview](#)

## 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.

Building ISV offering for Microsoft Viva with SPFx ACEs and multi-tenant AP...

[View video >](#)

## 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 >](#)



### [Learn how to create Adaptive Card Extensions \(ACEs\) for Microsoft Viva Connections and Viva Home](#)

January 11, 2023



Vesa Juvonen

We're excited to announce a new learning module focusing on building Adaptive Card Extensions (ACEs) for Microsoft Viva Connections and for upcoming Microsoft Viva Home. The Create Adaptive Card Extensions (ACE) for Microsoft Viva Connections learning module is the best way to learn how you can extend Viva Connections and Viva home by ...

# Azure





## Azure Announcements : Azure Blog

### VMs, Features, & Announcements

- [Arm-based VMs now available in four additional Azure regions](#) :: Generally Available
- [IT Service Management Connector \(ITSMC\) is now certified with ServiceNow Tokyo version](#) :: Public Preview
- [Azure Cosmos DB V2 Connector for Power BI](#) :: Public Preview
- [Azure Arc-enabled servers in Azure China](#) :: Generally Available
- [Azure Dedicated Host – Restart](#) :: Generally Available
- [JSON support in Azure Cache for Redis Enterprise tiers](#) :: Generally Available
- [Azure Confidential Computing on 4<sup>th</sup> Gen Intel Xeon Scalable Processors with Intel TDX](#)
- [Azure Arc enabled Azure Container Apps](#) :: Public Preview
- [Static Web Apps Diagnostics](#) :: Generally Available

### Data, AI, Security, & Availability

- [Enhanced metrics for Azure Database for PostgreSQL – Flexible Server](#) :: Public Preview
- [Secure sensitive data with pgcrypto extension in Azure](#)
- [Azure Sphere support for European Data Boundary](#) :: Generally Available
- [Encryption using CMK for Azure Database for PostgreSQL – Flexible Server](#) :: Generally Available
- [Azure NetApp Files cross-zone replication](#) :: Public Preview
- [Azure Database for MySQL - Flexible Server data encryption with CMK](#) :: Generally Available
- [Azure Arc enabled Azure Container Apps](#) :: Public Preview

### Operations & Benefits

- [Apache log4J2 sink to Azure Data Explorer](#) :: Generally Available
- [Forrester study finds 228 percent ROI when modernizing applications on Azure PaaS](#)
- [Microsoft Innovation in RAN Analytics and Control](#)
- [Use tag inheritance for cost management](#) :: Public Preview
- [Software inventory & agentless dependency analysis with Azure Migrate](#) :: Generally Available

### Microsoft Azure's defense in depth approach to cloud vulnerabilities

Wednesday, December 7, 2022

Microsoft Azure's security approach focuses on defense in depth, with layers on protections throughout all phases of design, development, and deployment of our platforms and technologies.

[John Walton](#), VP, Azure Security Engineering

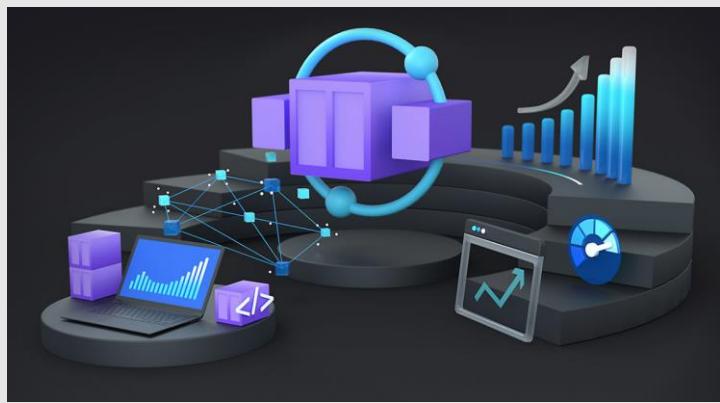
### 3 key cloud adoption trends in migrating and modernizing workloads

Wednesday, December 7, 2022

Microsoft believes the best way to prepare for this uncertainty is for organizations to do more with less—less complexity and cost, with more agility, resilience, and innovation.

[Kathleen Mitford](#), Corporate Vice President, Azure Marketing

# Azure Services Directory



## Azure Container Registry

A registry of Docker and Open Container Initiative (OCI) images, with support for all OCI artifacts.

### Azure Container Registry

- ❖ Build, store, secure, scan, replicate, and manage container images and artifacts with a fully managed, geo-replicated instance of [OCI distribution](#).
- ❖ [Store your container images and beyond](#) :: [formats](#), such as [Helm charts](#), [OCI artifacts](#), and images built to the [OCI image format specification](#).
- ❖ [Utilize pipelines for development and patching](#)
- ❖ [Scale globally with a few clicks](#)
- ❖ [Put private images on a private network](#)
- ❖ [Help safeguard content delivery with Content Trust](#)
- ❖ [Check images with Azure Security Center integration](#)

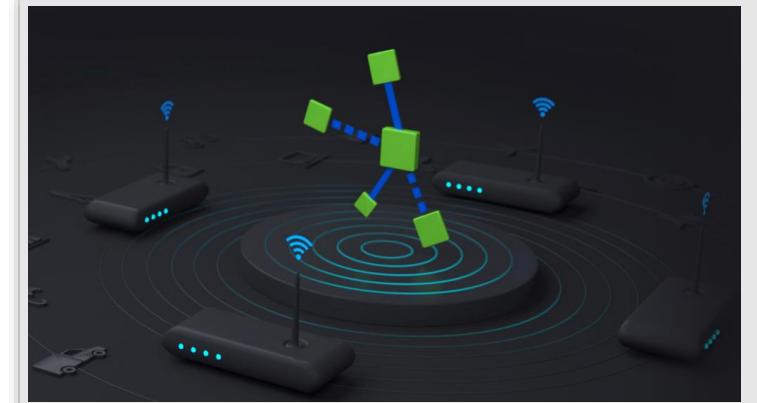


## Azure Stack Edge

An Azure managed device that brings the compute, storage, and intelligence of Azure to the edge.

### Azure Stack Edge

- ❖ [Purpose-built hardware-as-a-service](#) with Azure Stack Edge
- ❖ [seamless cloud-to-edge experience](#) where you configure, monitor and update your Azure Stack Edge with the same management portal and development tools you use with Azure
- ❖ Run your applications at the edge close to the data
- ❖ Analyze your data for quick actionable insights with hardware accelerated AI/ML
- ❖ Machine Learning with Edge and remote site compute
- ❖ Multiple Device types aligned to your specific requirements



## Azure Network Function Manager

Extend Azure management for deploying 5G and SD-WAN network functions on edge devices.

### Azure Network Function Manager

- ❖ Specialized network functions such as mobile packet core to enable private LTE/5G solution on [Azure Stack Edge](#)
- ❖ Partner Solutions : [Celona Private Mobile Network solution](#) using Azure Network Function Manager and Azure Stack Edge to deliver low-latency, high throughput applications at the edge.
- ❖ Network functions delivered as an [Azure-Managed Application](#) on Azure Stack Edge for simplified management
- ❖ Manage network functions across multiple Azure Stack Edge devices with a consistent management service

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



**Microsoft automotive, mobility, and transportation reference architectures: Rapidly deploy solutions to drive your transformation** □

January 5, 2023 • 5 min read

By [John Reed](#), Solutions Leader, Automotive, Mobility & Transportation Industry

Microsoft has created reference architectures that enable its partner ecosystem to help customers drive the future of mobility. [Read more](#)



## Microsoft at CES 2023: 5 key areas to support mobility innovation >

December 19, 2022 • 5 min read



By [Aaron Lee](#), Product Marketing Lead – Automotive, Mobility, & Transportation, Global Industry Product Marketing Group

We are excited to announce that Microsoft will be a featured exhibitor at CES 2023, taking place January 5 to 8, 2023 in Las Vegas, Nevada, and virtually. [Read more](#)



## Microsoft Cloud for Manufacturing: 3 manufacturing innovation trends >

December 15, 2022 • 3 min read



By [Guy Bursell](#), Director of Business Strategy, Manufacturing

In the fifth installment of our webinar series, Microsoft Cloud for Manufacturing: Part 5 – Unlock Innovation, we take a close look at three trends that help manufacturers innovate faster than ever. [Read more](#)



## Explore Microsoft Cloud for industries solutions global availability >

December 13, 2022 • 2 min read



By [Pepijn Richter](#), Senior Director, Industry Clouds Solutions Strategy

We're pleased to announce our new Microsoft Cloud for industries solutions availability resource. This easy-to-use resource with an interactive map assists our customers and partners to easily identify data center regions and supported languages for the global reach of their businesses. [Read more](#)



## Reflecting on COP27: Sustainability meets commercial progress >

December 13, 2022 • 5 min read



By [Elisabeth Brinton](#), Corporate Vice President, Sustainability, Microsoft

This year's 27th United Nations Climate Change Conference of the Parties (COP27) focused on the solution mindset needed for driving momentum and opportunities. [Read more](#)



# Microsoft Cloud for Sustainability

## Building a clean-energy future with your business

### Microsoft names new Chief Sustainability Officer

Dec 15, 2022 | Brad Smith, Vice Chair and President of Microsoft



I'm delighted to share the news that [Melanie Nakagawa](#) will join Microsoft in January as our new Chief Sustainability Officer. Reporting directly to me as a Corporate Vice President, Melanie will partner with teams across Microsoft and take on the leadership role for our company-wide environmental sustainability work.

Melanie brings to Microsoft almost two decades of environmental sustainability experience at the nexus of policy, business and technology, which will be vital as we continue our sustainability journey. She most recently served as Special Assistant to the President and Senior Director for Climate and Energy on the National Security Council at the White House, one of several roles she has held in the U.S. government. At the White House, Melanie played a leadership role on international and domestic climate initiatives, as well as energy issues that included the international energy response to the war in Ukraine.



Sustainability

Datacenters that power the cloud look to renewable energy sources



### Global Renewables Watch

The Global Renewables Watch is a first-of-its-kind living atlas intended to map and measure all utility-scale solar and wind installations on Earth using artificial intelligence (AI) and satellite imagery, allowing users to evaluate clean energy transition progress and track trends over time. It also provides unique spatial data on land use trends to help achieve the dual aims of the environmental protection and increasing renewable energy capacity.

[Register to access private preview](#)



NOTE: For illustration purposes only. Boundaries and names shown on this map do not imply the expression of any opinion on the part of the Global Renewables Watch partners concerning the status of any region, country, territory, city or area or of its authorities, or concerning the delimitation of frontiers or boundaries.

### Industry-scale CO<sub>2</sub> Flow Simulations with Model-Parallel Fourier Neural Operators >

[Philipp Witte](#), [Russell Hewett](#), [Ranveer Chandra](#)

[NeurIPS 2022 Workshop Tackling Climate Change with Machine Learning](#) | December 2022

[View Publication](#) | [Download PDF](#) | [Poster](#)

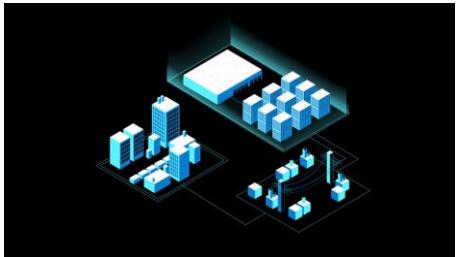


# Microsoft Cloud for Sustainability

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

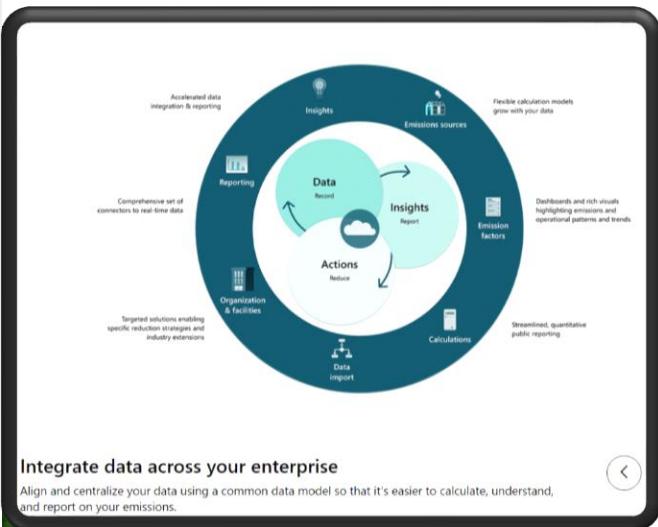
## Accelerate your sustainability journey

Microsoft Cloud for Sustainability is an extensible software-as-a-service solution that helps you record, report, and reduce your organization's environmental impact through automated data connections and actionable insights.



### Record

Connect data to more accurately represent the emissions footprint of your operation and value chain.



### Report

Visualize and report your environmental impact and sustainability progress in near real time.



### Reduce

Learn how to advance your efforts to reduce emissions, gain efficiencies, and make lasting changes.



# 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.

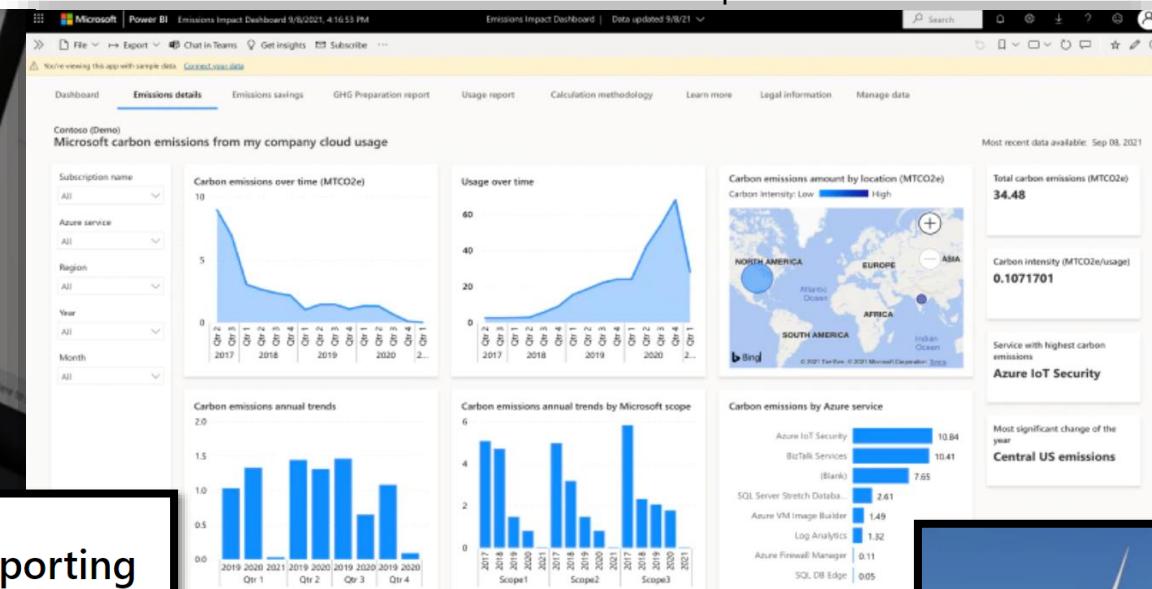
[Get started >](#)

## 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 @ Microsoft 2022: A look back at a year of accelerating progress in AI >

December 19, 2022

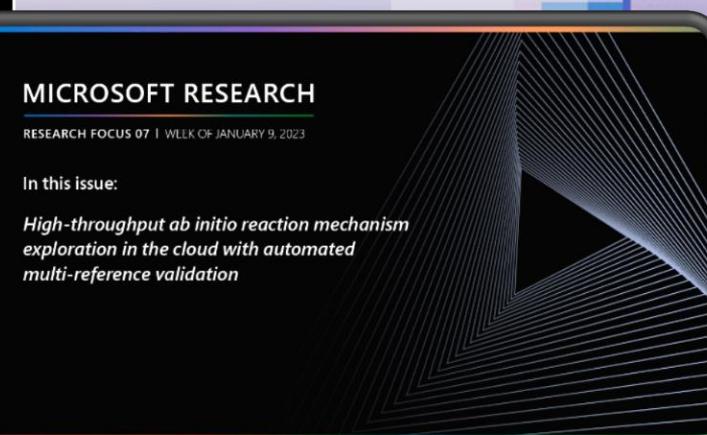
2022 has seen remarkable progress in foundational technologies that have helped to advance human knowledge and create new possibilities to...



### Advancing human-centered AI: Updates on responsible AI research >

January 12, 2023 | [Mihaela Vorvoreanu](#) and [Kathy Walker](#)

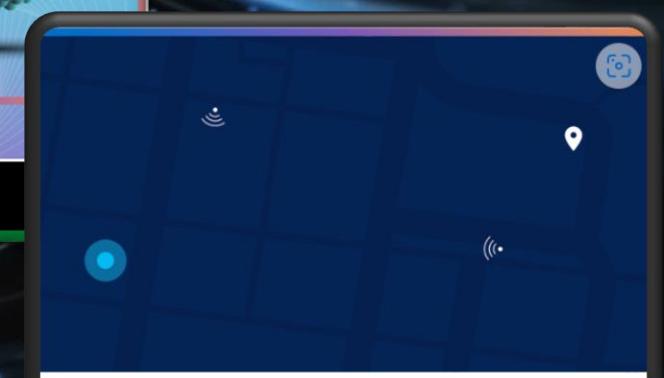
Artificial intelligence, like all tools we build, is an expression of human creativity. As with all creative expression, AI manifests the perspectives and values of its creators. A stance that encourages reflexivity among AI practitioners is a step toward ensuring that AI systems are human-centered,...



### Research Focus: Week of January 9, 2023 >

January 11, 2023

Welcome to Research Focus, a new series of blog posts that highlights notable publications, events, code/datasets, new hires and other milestones from across the research community at Microsoft. High-throughput ab initio reaction mechanism exploration in the cloud with automated multi-reference validation Jan P. Unsleber, Hongbin...

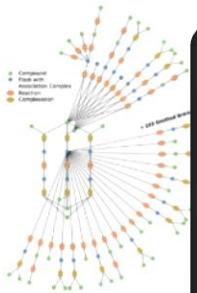


### Microsoft Soundscape – New Horizons with a Community-Driven Approach >

December 12, 2022

For more than six years, Microsoft Research has been honored to develop the Soundscape research project, which was designed to deliver information about a person's location and points of interest and has guided individuals to desired places and in unfamiliar spaces using augmented-reality and three-dimensional...

# Microsoft Quantum Blog



EVENT

## Microsoft Quantum Innovator Series: The Path to Quantum at Scale >

Upcoming: January 31, 2023 – April 20, 2023 | Virtual

Get the inside, first-hand account of Microsoft's strategy to scaled quantum computing. In this series, you will hear directly from Microsoft's Azure Quantum scientists and leaders about the path to quantum at scale and how...

## Accelerating innovation in computational chemistry >

December 12, 2022 • 4 min read



By [Hongbin Liu](#)

AutoRXN is a new automated workflow designed to empower scientists to explore reaction networks virtually using HPC in the Azure cloud. [Read more](#)

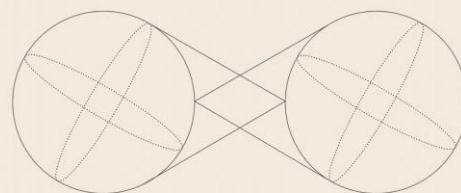
## Building the Azure Quantum machine

From breakthroughs in physics and nanomaterials to seamless integration with Azure, Microsoft is leading the way to scalable, accessible quantum computing

## Resource Estimation Tool

Azure Quantum's Resource Estimation tool is a unique developer tool that provides estimates for the number of logical and physical qubits as well as runtime required to execute quantum applications on post-NISQ, fault tolerant quantum computers. Understanding the number of qubits required for a quantum solution and the differences between qubit technologies allows innovators to prepare and refine their quantum solutions to run on future scaled quantum machines and ultimately accelerate their quantum impact.

[Learn More >](#)



## Superposition

In superposition, quantum particles are a combination of all possible states. They fluctuate until they're observed and measured. One way to picture the difference between binary position and superposition is to imagine a coin. Classical bits are measured by "flipping the coin" and getting heads or tails. However, if you were able to look at a coin and see both heads and tails at the same time, as well as every state in between, the coin would be in superposition.

## Entanglement

Entanglement is the ability of quantum particles to correlate their measurement results with each other. When qubits are entangled, they form a single system and influence each other. We can use the measurements from one qubit to draw conclusions about the others. By adding and entangling more qubits in a system, quantum computers can calculate exponentially more information and solve more complicated problems.

0

Classic bit

1



# 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.



Jan 3, 2023 | Laura Oxford

### [Teaching Microsoft employees healthy hybrid meeting habits with Minecraft](#)

Hybrid meetings aren't new. Microsoft is a global company, and even before the COVID-19 pandemic, teammates dialed into conference rooms from all over the world. But when everyone started working remotely in March 2020, all...

Jan 5, 2023 | Inside Track staff

### [Enabling a modern support experience at Microsoft](#)

To maximize the value of digital transformation in a complex, global organization like Microsoft, a new modern approach to employee support is required. That is why Microsoft Digital Employee Experience (MDEE), the organization that powers, protects, and transforms the digital employee experience across devices, applications, and infrastructure in Microsoft, is reimagining how to deliver support...

Jan 9, 2023 | Aleenah Ansari

### [Using a Zero Trust strategy to secure Microsoft's network during remote work](#)

Microsoft's cloud-first strategy enables most Microsoft employees to directly access applications and services via the internet, but remote workers still use the company's virtual private network (VPN) to access some corporate resources and applications when they're outside of the office. This became increasingly apparent when Microsoft prepared for its employees to work remotely in response...

Dec 8, 2022 | Inside Track staff

### [Using shielded virtual machines to help protect high-value assets](#)

Microsoft Digital Employee Experience (MDEE) protects our high-value corporate assets—beyond just the network. We use shielded virtual machines (shielded VMs) and Host Guardian Services (HGS) in Windows Server 2019 to isolate our data. This ensures that control and administration of infrastructure and environment remain completely isolated from control and administration of data and applications. Critical...

# Microsoft Learning and Training : New Sessions



## Virtual workshops and training

Our interactive virtual workshops and training sessions are taught live by Microsoft Store associates for an in-person experience—wherever you are.

Get started with  
Microsoft Power  
Virtual Agents



[See all 5 sessions >](#)

Get started with  
Microsoft Power  
Automate



[See all 7 sessions >](#)



Learn to be  
cyber smart  
with Microsoft  
security foundations



[See 2 sessions >](#)



Device management  
with Microsoft Intune

[See all 18 sessions >](#)

Get Started  
with Power BI  
service



[See all 5 sessions >](#)

Microsoft Virtual Training Days

# Microsoft Events and Training: Updates



## Microsoft Virtual Training Days

## Events Catalog

## Microsoft Ignite

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

[Get notified >](#)

TRAINING

### Discover your path

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

[Browse the full catalog](#)

[Customize my path](#)

### Further your goals with Microsoft events

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

#### Microsoft Virtual Briefing - Sustainability

02/16/2023 | 11:00 - 13:00 (CST)

Digital  
Briefing

Microsoft Virtual Briefings are exclusive events that bring the cloud community together to...

[Show more](#)

[Learn Live: Manage end-to-end deployment scenarios by using Bicep...](#)  
18 January, 2023 | 12:00 PM

Create a unified workflow to deploy your entire environment. You'll add build jobs to your workflow...

[Register](#)

[Microsoft Security Virtual Training Day: Defend Against Threats and Secure Cloud Environments](#)  
01/22/2023 | 17:00 (CST) - 01/23/2023 | 18:55 (CST)

Digital  
Training

#### Migrating On-Premises Infrastructure and Data

Learn how to plan, implement, and manage a hybrid infrastructure across on-premises, multicloud, and edge environments.

Language: English

Date & Time: Wed 01 Feb 2023, 01:00 PM - Thu 02 Feb 2023, 01:00 PM  
Timezone: EST

[Register >](#)

#### Defend Against Threats and Secure Cloud Environments

Learn how to perform advanced hunting, detections, and investigations, and remediate security alerts with Microsoft Defender and Microsoft...

Language: English

Date & Time: Tue 10 Jan 2023, 01:00 PM - Wed 11 Jan 2023, 01:00 PM  
Timezone: EST

[Register >](#)

# Microsoft Enterprise Skills Initiative (ESI)

self-paced learning, virtual training, instructor-led training, certifications



## Enterprise Skills Initiative (ESI) continues\*

- We have increased capacity and number of offerings.
- ESI covers training and certification for Azure technology.
- New: now also covers Security technology for eligible customers.
- ESI has options for different learning styles and stages:
  - Training is available as self-paced, instructor-led, Event.
  - Other training formats (e.g. Open Hack, GitHub, Cloud Skills Challenge) planned. ETA to be announced later.
  - Free exam vouchers available for eligible customers.
  - Free practice tests available for eligible customers.

\*Eligibility required; trainings and free offers are limited in numbers/availability.

Try it: <https://esi.microsoft.com>

1. Microsoft enables your organization for the Customer Experience Portal (CxP)
2. Login with your work account
  - *Authentication is federated, meaning you may see Multi-Factor Authentication from your organization if this has been configured by your administrator.*
3. Create your learning profile
4. Start your skilling

### Discover & Explore

Uncover the latest technologies and imagine new ways to create solutions



### Learn skills

Choose the way you want to learn and grow your expertise



### Prove skills

Demonstrate your knowledge and abilities



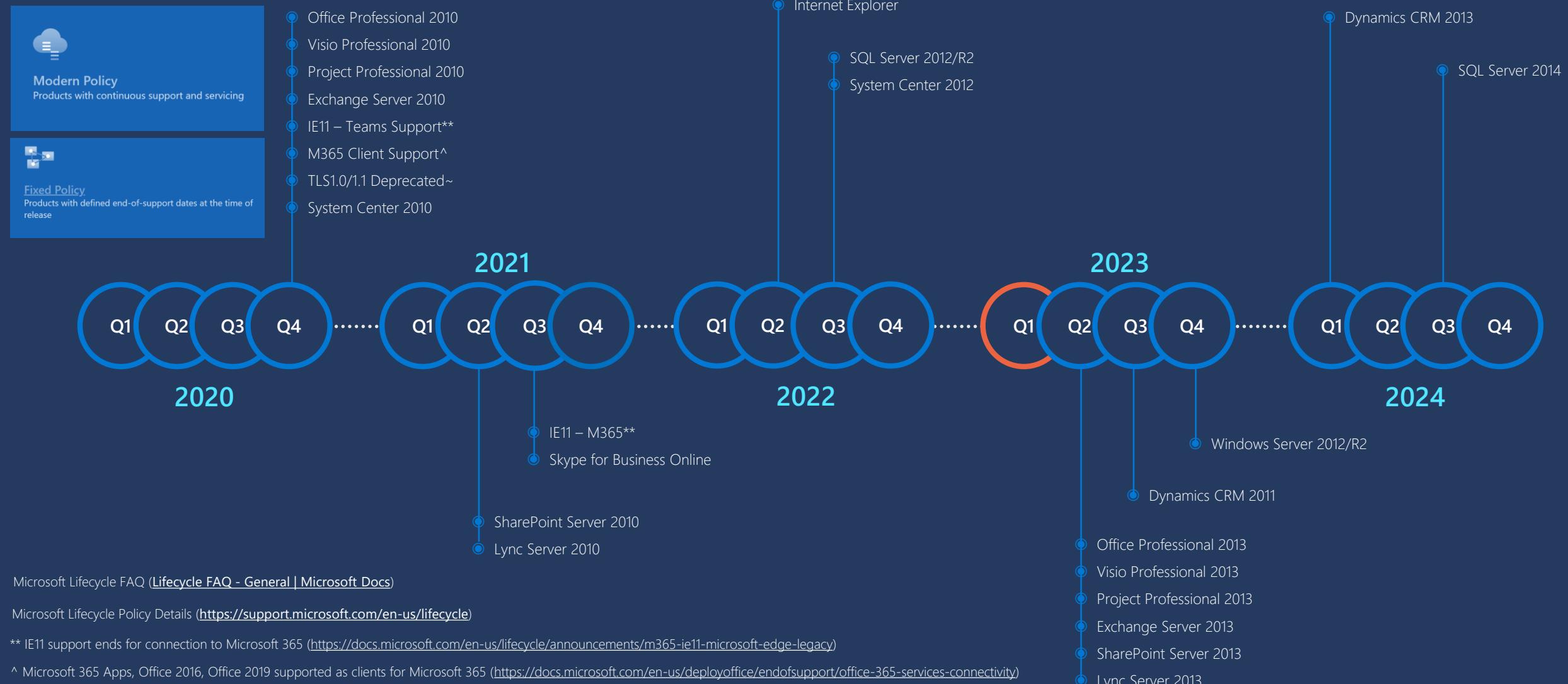
Login not working? Your organization may need to be onboarded to ESI. Please talk to your Microsoft Account Team.

# Product Lifecycles

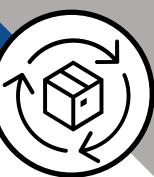




# End of Service Roadmap to 2024



# 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

- ⌚ 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

### Lifecycle data export

#### Export all products

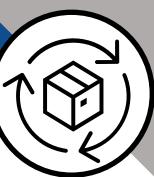
Export lifecycle data for all products by clicking below:

[Export All Products](#)

- ⌚ 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
- ⌚ Windows Server Semi-Annual Channel retiring on August 9, 2022
- ⌚ Office 2013 ends support in one year

[See more >](#)

# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2023

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2107</a>	<b>February 2, 2023</b>
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2021 release wave 2, version 19.x</a>	April 12, 2023
<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



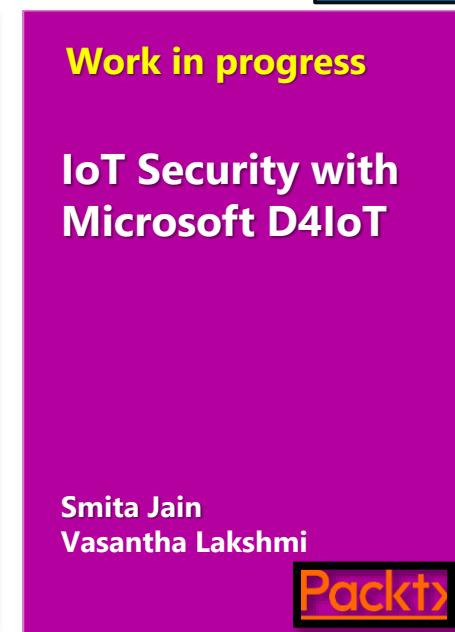
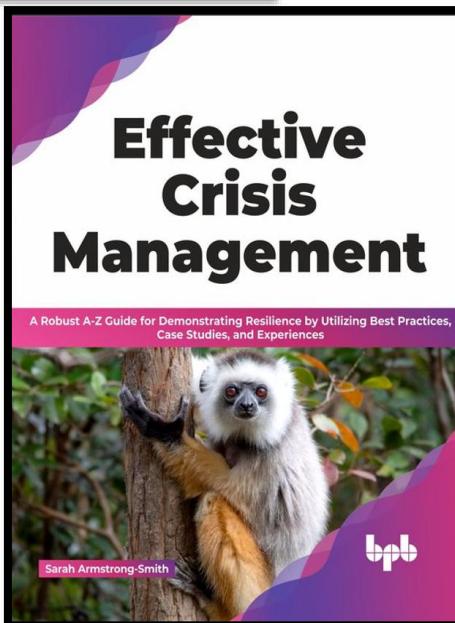
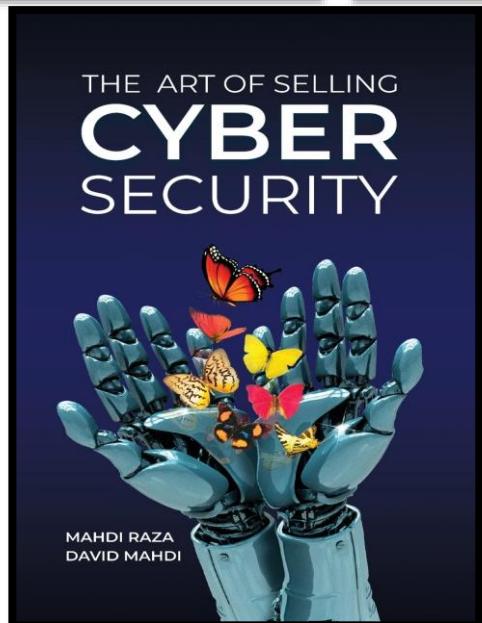
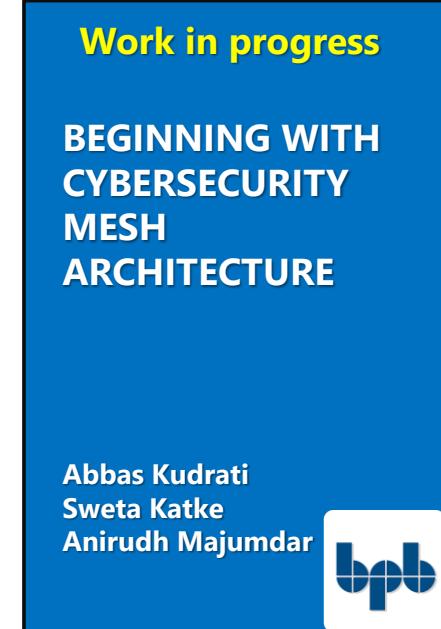
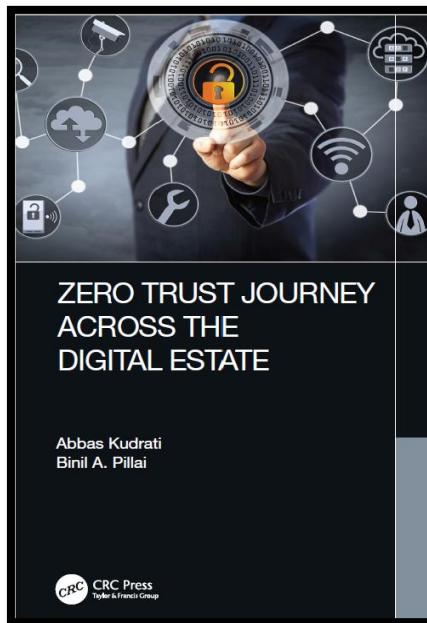
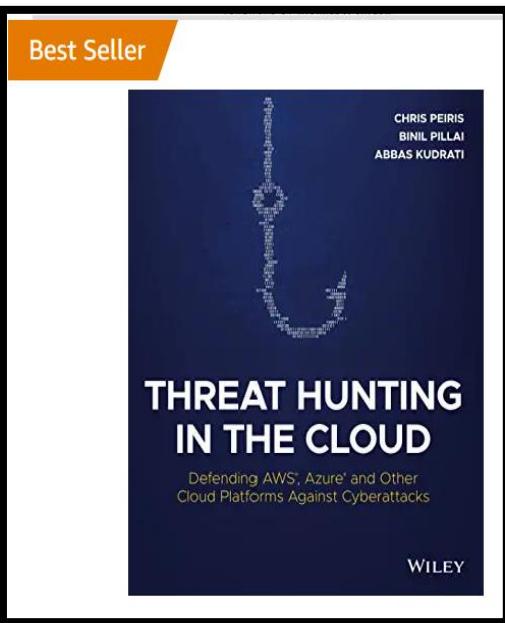
Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless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