



Microsoft

# Monthly Technical Update

## AUGUST 2022



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**<https://aka.ms/abbas>**

# Microsoft

- Microsoft Exchange Conference 2022
- GIT Merge 2022
- Microsoft Envision – September 2022
- Microsoft Tech Community Blog depot
- Microsoft Official Blog
- TechCommunity Events

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 2022 and 2023](#)
- [Companies and Technologies Acquired Since 2018](#)



Microsoft Exchange Community (MEC)

# Technical Airlift

September 13-14, 2022

[Home](#)

## Welcome to the Microsoft Exchange Community (MEC) Technical Airlift 2022!

[Register now!](#)

Welcome to the MEC Technical Airlift! This is a free, digital event for IT professionals who work with Exchange Online and/or Exchange Server day-to-day, and ISVs and developers who make solutions that integrate with Exchange.

MEC will be THE place for the Exchange community to come together to explore new innovations and information. It features learning opportunities, breakout sessions, and time with members of our passionate engineering teams. You'll also hear from some of the best-known names in Exchange around the world and get engaged in the community.

We're thrilled to bring back MEC, and excited to get into conversations with you about everything Exchange Online, Exchange Server, and Exchange Hybrid.

Prepare yourself for two days jam-packed with networking, unparalleled access to Exchange engineers and MVPs and, of course, the most in-depth information on Exchange you'll find anywhere.

### Exchange Server Roadmap

This session provides the roadmap for Exchange Server for 2022 and beyond. Find out what's coming to Exchange Server over the next months and years and how you can get early access to new builds and features.

### Expanding usage and security of email in Exchange Online

Email remains at the heart of business communications and workflow, and in this session, the Exchange Online Transport team will share how we're improving email security and adding new email functionality to support a broader range of email solutions and scenarios. New support for security features like DANE, DNSSEC, and MTA-STS, plus updates on features like M&A alias support and EAC mail flow updates are a few of the topics we'll discuss.

### Exchange Online Transport Future Initiatives: Bulk Mail and Exchange Transport Rules

The Exchange Online Transport team is planning significant future investments in both a bulk mail offering for line of business solutions as well as the ETR platform and user experience. Now is the perfect time for you to engage with us on the ground floor of our efforts with your requirements and ideas for these future initiatives.

### Basic Auth Deprecation in Exchange Online - This Time We Mean It!

Once upon a time, back in 2019 we said we would turn off Basic auth in Exchange Online. In 2021, we started doing it. By the start of 2022 we had already disabled it for millions of tenants, but we're not done yet. This session will give you the inside story on how we are doing it, how it's going, what we built to help us along the way, where we're going, and for the first time, we will share some details on our progress.





# Git Merge 2022

Git Merge, the conference dedicated to bringing the Git community together returns on September 14-15 in Chicago, Illinois.

# GIT MERGE 2022

September 13-14, 2022



# Microsoft Envision :: September 2022 – New season kickoff



We're preparing a new season experience!

Register to join us on September 27 for a discussion on the latest technology and business trends.

[Register now](#)

## Microsoft Envision

Microsoft Envision is a digital series where you'll join thought leaders from across industries to explore today's critical business and technology trends and innovations. Get ready to gain fresh insights and connect with peers from across the globe.



# emPOWER everyone

September 20 - 22

Workshops 18,19 and 23 **2022**

Orlando • Florida • #MPPC22

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

+ Conference-exclusive night, in partnership with Microsoft, at Universal Orlando, home to the Wizarding World of Harry Potter® and Islands of Adventure™!

Power BI

Power Apps

Power Automate

Power Virtual Agents

Power Pages

SPEAKERS

**110+**

SESSIONS

**150+**

WORKSHOPS

**18+**

EXHIBITORS

**40+**





# Microsoft Ignite

## October 12–14, 2022

### The best of what's next

Explore the latest innovations, learn from product experts and partners, level up your skillset, and create connections from around the world. Join us October 12–14 to help shape the future of tech. Be the first to know when registration opens by signing up below.

[Get notified](#)

#### What's to come

- Dive deep with training, live demos, and access to Microsoft and partner experts to elevate your work.
- Interact with product creators and industry professionals to influence the Microsoft products you use every day.
- Connect with a worldwide community of technologists to gain insights and get your tech questions answered.
- Participate from more places with translations and local content available in French, German, Japanese, Chinese (simplified), and Spanish.

#### Ways to attend

- Global digital broadcast: Join the live, worldwide show to hear the biggest news and announcements—and to unlock all the digital learning and networking options available to you.
- Live from Seattle: Immerse yourself in our flagship, in-person tech event where you can interact with experts and peers and experience portions of the global broadcast—space will be limited.
- Discover Microsoft Ignite Spotlights: local, market-specific opportunities to connect with a new digital experience. Check back for updates on in-person options near you.



# Zero Trust Journey Across the Digital Estate

This book seeks to provide an end-to-end view of the Zero Trust approach across organizations' digital estates that includes strategy, business imperatives, architecture, solutions, human elements, and implementation approaches.

ROUTLEDGE



## Zero Trust Journey Across the Digital Estate

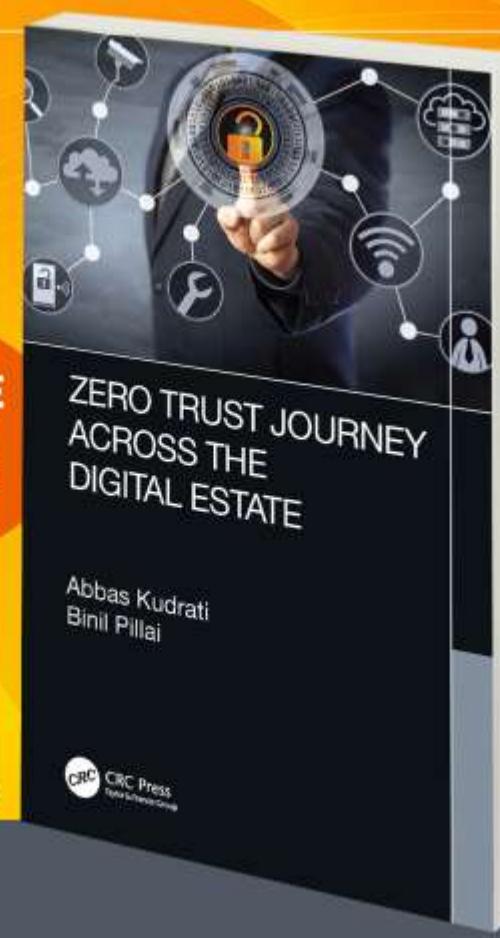
Seeking to provide an end-to-end view of the Zero Trust approach across organizations' digital estates.

Enjoy 20% off  
with 'FLE22' at  
checkout!

**SAVE  
20%**  
WITH CODE  
**ASMO7**

Offer expires: 30 September 2022

**CRC** CRC Press  
Taylor & Francis Group



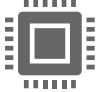
*Order your copy now using this link <https://routledge.pub/Zero-Trust-Journey>*

# Updates of Security and Compliance



# Monitoring Global Threats: Microsoft

Microsoft Security Response Center



## Global threat activity

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

### Most affected industries

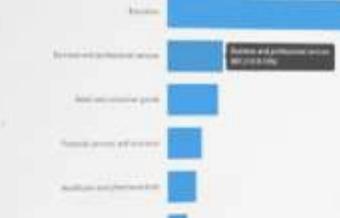
Reported enterprise malware encounters in the last 30 days

#### Telecommunications

##### Devices with encounters:

163,115 (2.43%)

More affected industries



### Mitigation for Azure Storage SDK Client-Side Encryption Padding Oracle Vulnerability

MSRC / By msrc / July 18, 2022

Summary: Google informed Microsoft under Coordinated Vulnerability Disclosure (CVD) of a padding oracle vulnerability that may affect customers using Azure Storage SDK (for Python, .NET, Java) client-side encryption (CVE-2022-30187). To mitigate this vulnerability, we released a new General Availability (GA) version of the Azure Storage SDK client-side encryption feature (v2) on July 12, 2022. Microsoft ...

### Top threats:

Adware:Win32/Hiru  
Behavior:Win32/PShellCobStager.A  
Exploit:JS/CVE-2014-0322.A  
HackTool:Win32/Wincred.H  
PUA:AndroidOS/Dnotua A!MTB

## Worldwide

78,695,050 devices with encounters

### Top threats:

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

July 27, 2022 • 14 min read

### Untangling KNOTWEED: European private-sector offensive actor using 0-day exploits

MSTIC and MSRC disclose technical details of a private-sector offensive actor (PSOA) tracked as KNOTWEED using multiple Windows and Adobe 0-day exploits, including one for the recently patched CVE-2022-22047, in limited and targeted attacks against European and Central American customers.

### Microsoft Office to publish symbols starting August 2022

MSRC / By msric / August 8, 2022

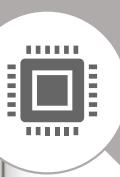
We are excited to announce that Microsoft Office will begin publishing Office symbols for Windows via the Microsoft Public Symbol Server on August 9th 2022. The publication of Office symbols is a part of our continuing investment to improve security and performance for customers and partners. Key Advantages for customers, partners, and Microsoft Security: Empowering ...

July 26, 2022 • 13 min read

### Malicious IIS extensions quietly open persistent backdoors into servers

Attackers are increasingly leveraging managed IIS extensions as covert backdoors into servers, providing a durable persistence mechanism for attacks.

Select a region ▾



August 2, 2022 • 4 min read

## Microsoft announces new solutions for threat intelligence and attack surface management

Defenders are up against the most sophisticated threat landscape we've ever seen. Today, we're proud to execute our threat intelligence vision behind that acquisition and announce several new solutions to help security teams get ahead of adversaries and catch what others miss.

[Read more >](#)

August 8, 2022 • 7 min read

## IT security: An opportunity to raise corporate governance scores

Corporate Governance scoring is increasingly important to boards of directors, executive leadership, and the investment community. Governance frameworks now incorporate aspects of IT security. Communicating the security message in ways that impact a company's governance score is important to getting attention and investment from corporate leadership. This post examines a leading governance framework from Institutional Shareholder Services, Governance QualityScore, and the specifics of how IT security can increase a company's score.



July 28, 2022 • 6 min read

## Industrial systems: What it takes to secure and staff them

Chief Executive Officer and owner of Ampere Industrial Security Patrick C. Miller discusses the security and hiring challenges of protecting industrial systems.

July 25, 2022 • 5 min read

## Discover 5 lessons Microsoft has learned about compliance management

Just like our customers, Microsoft has been on a compliance journey. Here's what we've learned about the most effective mindset and tools to manage compliance.

August 4, 2022 • 4 min read

## How IT and security teams can work together to improve endpoint security

The threat landscape has changed over the last few years. A mitigation strategy involves collaboration between the security operations and IT infrastructure teams. There are three best practices to enable collaboration, highlighting the role of endpoint management in helping organizations unify their efforts in this blog.

July 19, 2022 • 8 min read

## How Microsoft Security partners are helping customers do more with less

The Microsoft Security partner opportunity grew 21 percent year-over-year, particularly in Microsoft 365 security, cloud security, compliance, and identity. Microsoft Security partners are expanding their existing offerings and creating new offerings in all these areas, packaging their unique experience, expertise, and IP for effective and efficient service delivery.



# Microsoft 365 update information

# Microsoft Teams Blog:



What's New in Microsoft Teams | July 2022

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

Holly Lehman on Jul 29 2022 03:00 AM

How is it already time for the "What's New in Teams" blog for July? Wow, summer is speeding by us quickly. This month, w...

### New for This Month:

- [Microsoft Forms being replace by Microsoft Polls in Teams Meetings](#)
- [Call recording announcement played in your default language](#)
- [Common Area Phone license enhancements](#)
- [Configure Intune to enroll Teams Android-Based Devices](#)
- [Spetralink Digital Enhanced Cordless Telecommunications \(DECT\) Device integration with SIP Gateway](#)

### Devices:

- Check-Out for Microsoft Teams Panels
- Extend Room Reservations for Microsoft Teams Panels
- Peripherals: Camera on/off feature support
- Logitech Tap IP ([VR0029](#)) and [Logi Dock](#)

Announcing Microsoft Teams optimized for Apple silicon

Anupam\_Pattnaik on Aug 03 2022 08:00 AM

Today we're excited to announce the arrival of a native Microsoft Teams app optimized for the Apple silicon Mac lineup.

### Chat and Collaboration

- [LinkedIn Integration with Teams](#)
- [Automatic groupings available for channel posts](#)
- [Enhanced user experience on iPad](#)

### Management:

- [Bulk Removal for individual policy assignments](#)

### Security, Compliance, and Privacy

- [Enterprise Information Archiving support :: Export API Support for Teams Message Reactions](#)

### Frontline Workers

- [Deploy frontline teams at scale](#)
- [Device Test for Virtual Appointments](#)
- [Virtual Appointment SMS notification for UK customers](#)

### Government Cloud Updates : GCC-High and DoD Clouds:

- [Manage Meetings options for DoD](#)
- [Large Gallery for Teams on VDI in Government Clouds](#)
- [Together Mode for Teams on VDI in Government Clouds](#)

Microsoft Inspire 2022: Innovations coming to Teams

Maria Figueroa on Jul 19 2022 08:00 AM

We are excited to announce a host of new features, solutions, and programs for Microsoft Teams that further our commitme...

### Innovations :: Coming Soon

- [Excel Live :: Public Preview](#)
- [Collaborative Annotations :: Generally Available Aug. 2022](#)
- [Intelligent Camera enhancements :: Leverage native hardware capabilities](#)
- [Enhanced Webinar Experience :: Coming Soon](#)
- [Teams Connect :: Internal + External Shared Channels](#)
- [Video Clip :: Short record and send lightweight video messages in chat](#)
- [Chat with self :: Pin notes and files to the top of your chat](#)
- [Expanded Reactions :: Available in Sept. 2022](#)
- [Microsoft Teams chat embedded within Dynamics 365 :: Coming soon](#)
- [Microsoft Digital Contact Center Platform Launch](#)
- [Operator Connect: Mobile, Conferencing, Accelerator](#)
- [Collaborative Controls in PowerApps](#)
- [Live Share with Azure Fluid Relay Instance :: Public Preview](#)
- [Microsoft Teams certification for native Bluetooth](#)
- [Approvals Graph API :: Public Preview](#)



# What's New in Microsoft 365

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



## Microsoft 365 Updates:

- Insert live camera feeds directly into your slides :: Mac Update
- View and edit Office 365 Offline :: iOS Update
- Listen to Documents with Screen Locked :: iOS and Android Update
- New Notifications Pane : Stay connected with notifications you might have missed
- Updated Outlook search including events, flights, and people.
- Use an example record to import data to your Excel workbook

## 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](#)

### Teams Q&A is now Generally Available

samsearth on Jul 19 2022 06:21 PM

By including Q&A in any Teams meeting or webinar, event organizers add the ability for attendees to have a focused, struc...

Microsoft 365 compliance center: Microsoft Purview   Endpoint DLP - Restrict egress activities when accessing sensitive websites in Microsoft Edge	Preview: July 2022 GA: October 2022
Office app: Microsoft Office Default change – Blocking VBA macros in files from the internet	GA: September 2022
Microsoft Teams: Home page customization for Teams admin center	GA: August 2022
Microsoft Teams: Pop out shared content into a separate window	GA: August 2022
Microsoft Stream: Record a new video on the Stream Start page in Office	GA: August 2022
Microsoft Stream: Stream web app	GA: August 2022
Forms: Convert Word/Pdf form or quiz to Microsoft Forms survey	GA: August 2022
Microsoft Teams: Share content experience improvement on Teams Rooms on Windows	GA: August 2022
Microsoft Teams: End to end encryption for one-to-one calls in Teams Rooms on Windows	GA: August 2022
Microsoft Teams: Mute/ unmute status icon for Teams Rooms on Windows	GA: August 2022
Microsoft Teams: Join Teams meeting by meeting ID and passcode from Teams Rooms on Windows	GA: August 2022

Enhancing the collaboration and diagramming experiences...

AkankshaRaj on Jul 12 2022 09:00 AM

Learn more about the newest tools and sample diagrams available in Visio for the web!

Introducing Preview of Experience insights for Microsoft...

amishaBhatia on Aug 08 2022 10:39 AM

Learn how to easily assess user success with Experience insights for Microsoft 365.

Announcing Excel Live - Transform Microsoft Teams meetings...

MeenakshiNaren on Jul 19 2022 08:00 AM

Learn about Excel Live-a new feature to enhance real time collaboration in Microsoft Teams.

Managing browser security easily with Microsoft 365...

BaileyReid on Jul 19 2022 08:00 AM

Announcing the addition of the Microsoft Edge policy to Microsoft 365 Lighthouse!



# Microsoft Power Platform



## Power BI

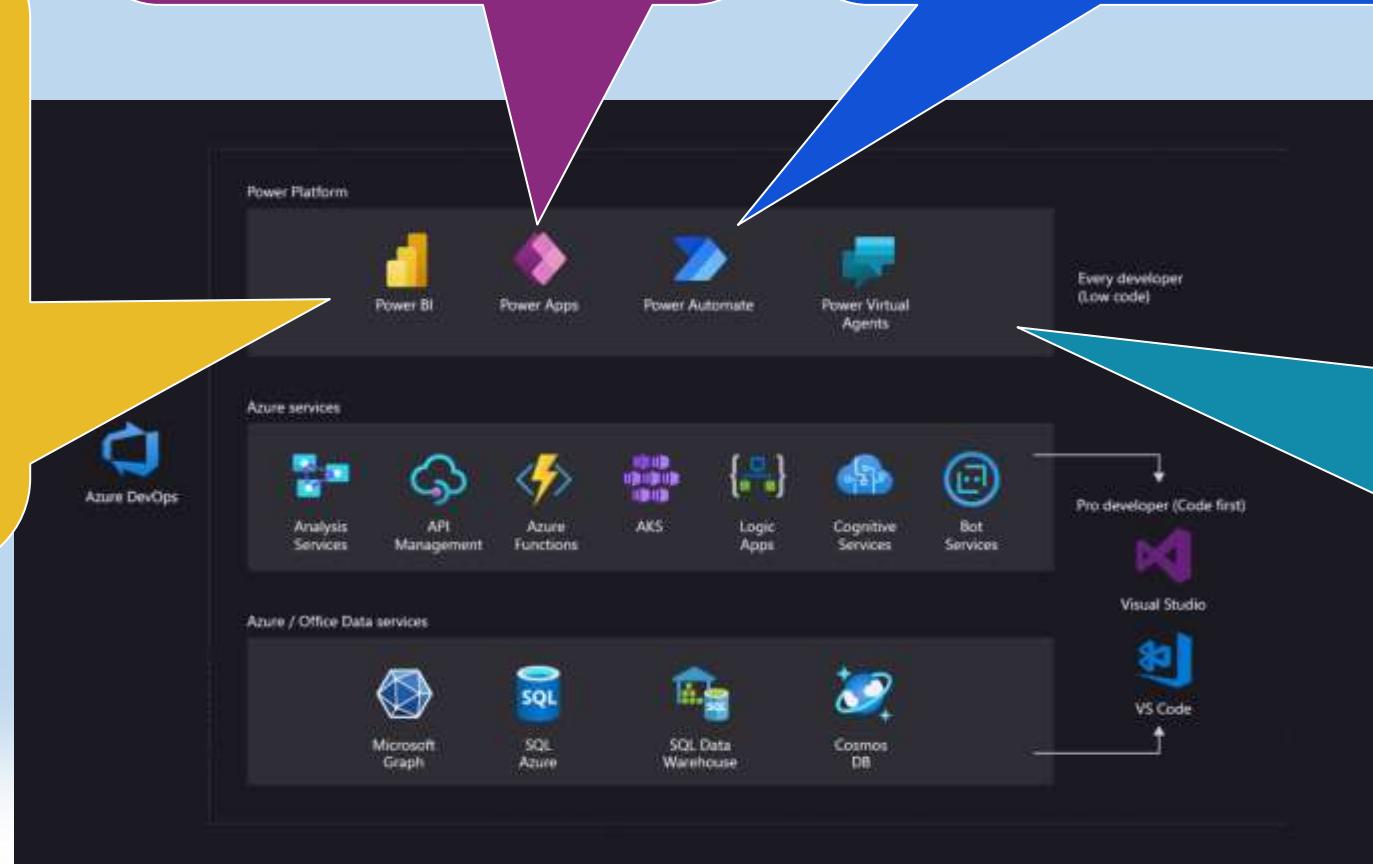
Power BI is a unified self-service and enterprise **analytics solution** that lets you **visualize your data** and share insights across your organization or embed them in your app or website. Azure analytics services and Power BI together allow you to quickly unlock insights for your entire organization.

## Power Apps

Power Apps provides a low-code approach to **rapidly build apps for any device** while seamlessly working with Azure services through a rich extensibility model for professional developers.

## Power Automate

Power Automate is a no-code automation platform that allows you to leverage previously off-limits legacy systems. Quickly **automate solutions** through simple workflow automation or through robust process automation using RPA.



## Power Virtual Agents

Power Virtual Agents enables you to create intelligent no-code **chatbots** and easily integrate with existing services by calling customer workflows using Power Automate and extending bots with custom capabilities using **Bot Framework Skills**.

# Power Platform and Dynamics



## The AI-powered contact center, part 1: Create engaging digital experiences >

August 8, 2022 • 3 min read

By [Tony Lorentzen](#), Senior Vice President and General Manager, Intelligent Engagement, Nuance Communications

Today's customers expect more engaging, personalized service experiences from the brands they choose. They want intelligent self-service that offers always-on digital convenience. And they expect agents, whether human or virtual, to not just know who they are, but to already have an idea why they are reaching out and how to help. That's why we...[Read more](#)



## Supercharge your CRM with Microsoft Viva Sales—Now in preview >

August 1, 2022 • 3 min read

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

At the announcement of Microsoft Viva Sales, Paul Greenberg, Founder, Managing Principal, The 56 Group, LLC, often called the "Godfather of CRM" and has written a book, CRM at the Speed of Light, and I were chatting about the state of customer relationship management (CRM) market and the innovations in the last 20 years. One area...[Read more](#)



## Strike a strategic inventory balance in your supply chain with demand driven material requirements planning (DDMRP) >

July 25, 2022 • 4 min read

By [Ashley Desiongco](#), Senior Product Marketing Manager, Supply Chain Management

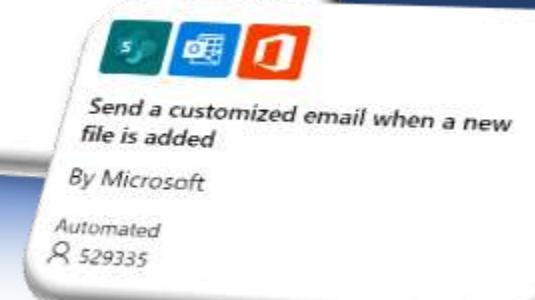
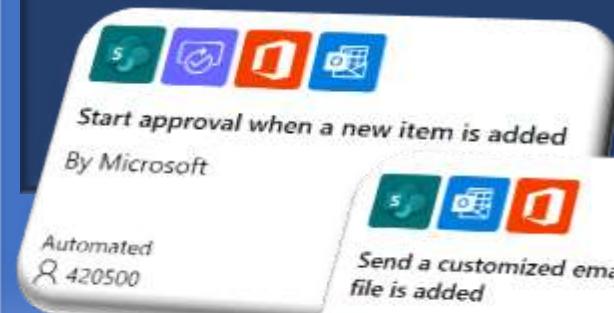
Today we are excited to announce the preview of our demand driven material requirements planning (DDMRP) feature for Microsoft Dynamics 365 Supply Chain Management. The evolution of MRP DDMRP is the next evolution of material requirements planning (MRP), which has a long and storied history in manufacturing. From its origins in the early 1960s as...[Read more](#)

Roadmaps and Release plans:



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

- [Microsoft Power Platform Conference :: Orlando Florida :: Sept. 18 – 23, 2022](#)
- ["Data in space" - Now Power BI can be everywhere :: Preview](#)
- [Datamart Query editor \(Visual and SQL Query\) updates :: Preview](#)
- [Power BI App available in Microsoft Teams Mobile](#)
- [Canvas Apps as Dataverse Solutions by default :: Preview](#)
- [ESLint rules for Power Apps and Dynamics 365 :: Public Preview](#)
- [What's New in Power Apps :: July 2022 releases](#)
- [Power Automate Android mobile app :: Public Preview](#)
- [Create Advanced Bots with Power Automate and Microsoft Teams](#)
- [Pay-as-you-go service for Power Automate :: Public Preview](#)
- [Power Virtual Agents Customer Lockbox support](#)



# Developer and GitHub

## GitHub Blog

- [GitHub Pages : Builds with GitHub Actions :: Generally Available](#)
- [Wikis now support math and Mermaid diagrams](#)
- [Advisory Database supports GitHub Actions advisories](#)
- [GitHub Actions : Self-hosted runners now support Apple M1 hardware](#)
- [Warning users about account relinking during SAML SSO](#)
- [REST API available for organization-level security manager role :: Public Beta](#)
- [Audit Log Streaming to Datadog :: Private Beta](#)
- [Prebuilding codespaces is now supported for multi-repository and monorepo projects](#)

## Microsoft Developer Blogs:

- [New features in Microsoft Graph To Do APIs and retirement of the Tasks API :: Beta](#)
- [.NET 7 :: Preview 7](#)
- [August patches for Azure DevOps Server](#)
- [Announcing SynapseML for .NET - Large Scale ML with a Simple API](#)
- [C++ : Official Support for Arm64EC](#)
- [Azure Fluid Relay Service :: Generally Available](#)
- [Azure DevOps Server :: RC1 Introduced](#)
- [Changes in "Export to PDF" with sensitivity labeling and encryption](#)

## Release Radar • July 2022 Edition

While some of us have been wrapping up the financial year, and enjoying vacation time, others have been hard at work shipping open source projects and releases. These projects include...

 **Michelle Mannerling** August 5, 2022



NestJS  
90



Vite  
30



LocalStack  
10



SpaceVim  
20



Sonic Pi  
40

### Introducing even more security enhancements to npm

New npm security enhancements include an improved login and publish experience with the npm CLI, connected GitHub and Twitter accounts, and a new CLI command to verify the integrity of packages in npm.

**Myles Borins & Monish Mohan** July 26, 2022



### 6 strategic ways to level up your CI/CD pipeline

From incorporating accessibility testing to implementing blue-green deployment models, here are six practical and strategic ways to improve your CI/CD pipeline.

**Damian Brady** July 19, 2022

### Enterprise

### All GitHub Enterprise users now have access to the security overview

Today, we're expanding access to the GitHub security overview! All GitHub Enterprise customers now have access to the security overview, not just those with GitHub Advanced Security. Additionally, all users within an enterprise can now access the security overview, not just admins and security managers.

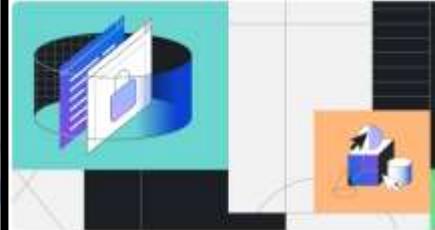
**Brittany O'Shea & Kelly Arwne**

August 8, 2022

### Corrupting memory without memory corruption

In this post I'll exploit CVE-2022-20186, a vulnerability in the Arm Mali GPU kernel driver and use it to gain arbitrary kernel memory access from an untrusted app on a Pixel 6. This then allows me to gain root and disable SELinux. This vulnerability highlights the strong primitives that an attacker may gain by exploiting errors in the memory management code of GPU drivers.

**Man Yue Mo** July 27, 2022



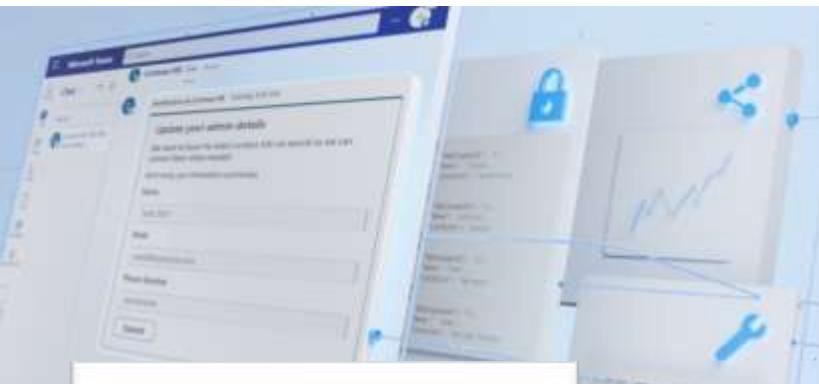
### Dependabot now alerts for vulnerable GitHub Actions

GitHub Actions gives teams access to powerful, native CI/CD capabilities right next to their code hosted in GitHub. Starting today, GitHub will send a Dependabot alert for vulnerable GitHub Actions, making it even easier to stay up to date and fix security vulnerabilities in your actions workflows.

**Brittany O'Shea & Kate Catlin** August 9, 2022



# Office Developer Blogs and Microsoft 365 Dev Center



## 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 low-code apps and workflows with Power Platform

[Learn more](#)

Create customized experiences for Viva and SharePoint

[Learn more](#)

Grow customer reach and engagement with apps built for Microsoft Viva

[Learn more](#)

Design beautiful user experiences using Fluent UI

[Learn more](#)

## 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 >](#)

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

- [Upcoming changes to data visibility for Microsoft Graph callRecords APIs](#)
- [eDiscovery API for Microsoft Graph :: Generally Available](#)
- [Microsoft loop component developer :: Private Preview](#)
- [Microsoft 365 Modern Comments : RichEdit in commenting](#)
- [Updates on controlling app specific access on SharePoint Sites](#)
- [SharePoint Framework 1.15.2 with updates for Viva Connections, Microsoft Teams, and SharePoint](#)

Build powerful apps with Outlook and Office

[Learn more](#)

Build rich collaborative experiences with Microsoft Teams

[Learn more](#)

# Azure



# Azure Updates



## Azure Announcements : Azure Blog

### VMs, Features, & Announcements

- [Azure Purview is now Microsoft Purview](#) :: New tools for govern, protect, and manage the entire data estate
- [Bluware and Microsoft Azure develop OSDU-enabled interactive AI Seismic interpretation solution](#)
- [Azure Premium SSD v2 Disk Storage](#) :: In Preview
- [Microsoft joins Jakarta EE and MicroProfile Working Groups at Eclipse Foundation](#)
- [Azure Dedicated Host: Support for Ultra SSD](#) :: Public Preview
- [Azure Log Analytics in China North 3 and China East 3](#) :: Generally Available
- [AMD-based confidential VMs for Azure Kubernetes Service \(AKS\)](#) :: Public Preview
- [Azure Stream Analytics in four new regions](#) :: Generally Available

### Data, AI, Security, & Availability

- [Serverless SQL for Azure Databricks](#) :: Public Preview
- [Azure Security for Next-Generation Telecommunications networks](#)
- [Azure empowers easy-to-use, high-performance, and hyperscale model training using DeepSpeed](#)
- [Audit log for continuous mode with Azure Cosmos DB](#) :: Generally Available
- [RedisJSON available in Azure Cache for Redis Enterprise](#) :: Public Preview
- [FIPS compliant nodes for Windows in AKS](#) :: Generally Available
- [Azure Firewall Premium is now ICSA labs certified](#)

### Operations & Benefits

- [Share images across subscriptions and tenants with new Compute Gallery feature](#) :: Public Preview
- [Microsoft Sustainability for Datacenter](#) :: measure water, waste, and energy to Improve Azure Cloud
- [Microsoft Cost Details API now generally available for EA and MCA customers](#)
- [Azure Dedicated Host restart](#) :: Public Preview

Track adversaries and improve posture with Microsoft threat intelligence solutions

Tuesday, August 2, 2022

Today, we're thrilled to announce two new security products driven by our acquisition of RiskIQ just over one year ago that deliver on our vision to provide deeper context into threat actors and help customers lock down their infrastructure.

[Tim Woolford](#), Director, Product Marketing

5 steps to prepare developers for cloud modernization

Wednesday, August 3, 2022

With Microsoft Azure, you'll find not only the tools and technologies that you need to move to the cloud, but also extensive developer support for cloud modernization. In this article, we'll walk you through technical documentation, educational resources, and step-by-step guidance to help you build the skills and strategy needed to successfully modernize your applications.

[Mayunk Jain](#), Senior Product Marketing Manager

# Azure Services Directory



## Data Science Virtual Machines

Rich pre-configured environment for AI development



## Azure Private 5G Core PREVIEW

Rapidly deploy and manage private 5G networks at the enterprise edge



## Microsoft Purview

Govern, protect, and manage your data estate

## Azure Data Science VMs

- ❖ [Pre-Installed, Configured and tested with popular tools](#)
- ❖ Tuned for Data-Analytics, Machine Learning, and AI Training
- ❖ End-to-End Data Science Workflows
- ❖ Deep Learning with GPUs
- ❖ Integrated with [Azure Machine Learning](#)
- ❖ Integrate with [Cognitive Services](#), [Applied AI Services](#), and [OpenAI Service \(Preview\)](#)

## Azure Private 5G Core :: Preview

Simple, Scalable, secure deployments of private 5G on Azure [Arc-Managed edge](#) platform

- ❖ [5G core network functions including](#) User Plane, Control Plane, Subscriber and Policy
- ❖ Deployed on [Azure private MEC](#) (Multi-Access Edge Compute)
- ❖ Single Multi-Access Core to support 4G LTE & 5G standalone Radio Access Network (RAN) from any vendor
- ❖ Centralized Orchestration and Automation of 5G
- ❖ Deploy Private 5G network in minutes
- ❖ Scale Globally with unified cloud management

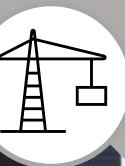
## Microsoft Purview

- ❖ [Unified map of data across your entire data estate](#)
- ❖ Classify data using built-in and your custom classifiers
- ❖ Leverage Microsoft Information Protection sensitivity labels
- ❖ [Build a comprehensive and discoverable data catalog](#)
- ❖ Provide the data needed for Data Scientists, Analysts, AI and Machine Learning models
- ❖ [Get a birds-eye view of sensitive data](#)
- ❖ Gain key insights and Status :: View source-type, classification, and file sizes across the entire data estate.

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



## Top 6 findings from IoT Signals: Manufacturing Spotlight >

August 11, 2022 • 4 min read

By [Parag Ladha](#), Director of Product Marketing, Azure IoT

For this edition of the report IoT Signals: Manufacturing Spotlight Microsoft, Intel, and IoT Analytics surveyed 500 decision makers working on digital transformation initiatives in discrete, hybrid, or process manufacturing across North America, Europe, and Asia Pacific....[Read more](#)



## Reduce energy security risk and improve resilience with Microsoft Defender for IoT >

August 2, 2022 • 4 min read

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

We all win when energy companies build strong cybersecurity into their digital transformation journey toward better efficiency and clean energy. I've discussed security threats and other challenges in previous Energy and Resources blogs, and in this blog, I want to underscore the urgency around cybersecurity, how it's evolving, and how companies can use technology to manage...[Read more](#)

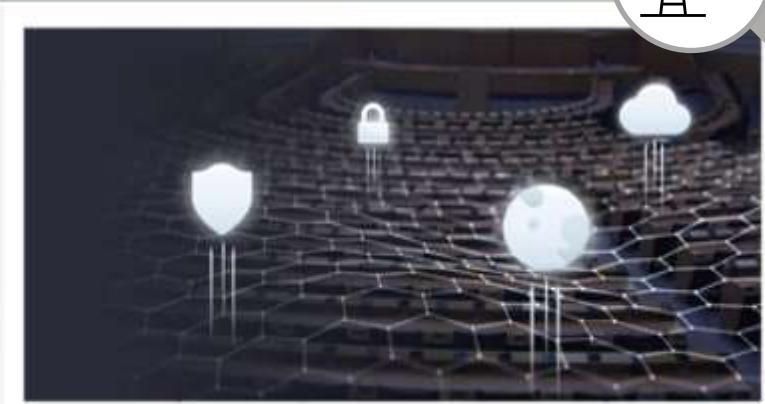


## Microsoft Inspire 2022: Empowering partners to drive transformation in every industry >

July 14, 2022 • 3 min read

By [Toby Boxes](#), General Manager, Product Marketing, Industry, Apps, and Data Marketing

The Microsoft partner ecosystem plays a central role in our joint customers' success and allows us to scale more quickly. Our partners develop innovative solutions across a range of industries and lead customers on their digital imperatives journey. I am looking forward to our biggest partner event, Microsoft Inspire, where you will learn how Microsoft enables...[Read more](#)



Jul 19, 2022 | Corey Sanders, Corporate Vice President, Microsoft Cloud for Industry and Global Expansion Team

## Microsoft Cloud for Sovereignty: The most flexible and comprehensive solution for digital sovereignty >



## Explore Microsoft Cloud for Healthcare + Nuance

Deliver better experiences, insights, and care with the help of trusted cloud technology and outcomes-focused AI.

[Learn more >](#)

# Microsoft Sustainability



## Sustainability Solutions for Industry



### Start focusing on carbon math

Each year, humanity emits 50B tons more greenhouse gas than the planet can absorb. Learn how to track and minimize carbon emissions across scopes.

[Watch the video >](#)

#### Real estate

Read how Sweden's largest real estate company, Vasakronen, optimizes energy efficiency across its portfolio using Azure IoT.

[Read the case study >](#)

### Become water positive

Learn from Microsoft plans to reduce our water use and replenish more than we consume by 2030.

[Watch the video >](#)

#### Maximizing renewable energy benefits—and partnerships

SSE Airtricity installed solar panels on Dublin school rooftops, helping to lower electricity bills while contributing renewable energy to Irish provinces. The project is expected to abate 4.6 million pounds of carbon dioxide emissions over 15 years.

[Learn more >](#)



### Making an impact, one kilowatt at a time

Power provider ENGIE used Azure IoT, Azure Time Series Insights, and Power BI to boost decision making and energy production efficiency based on real-time, historical, and AI-modeled data.

[Learn more > Explore Azure IoT for energy >](#)



### Reduce global waste with Circular Centers

Humans produce about 55B tons of waste annually, most of which is not properly disposed of. Discover how we plan to reach our zero waste goals.

[Watch the video >](#)



### Monitor and analyze the planet's health

Find out how our Planetary Computer enables targeted environmental decision-making.

[Watch the video >](#)



# 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 >](#)

The screenshot shows the Microsoft Emissions Impact Dashboard interface. It includes a top navigation bar with tabs like 'Emissions details', 'Emissions savings', 'GHG-preparation-report', etc. Below the navigation are several data visualizations:

- Carbon emissions over time (MTCO<sub>2</sub>e):** A line chart showing emissions from 2011 to 2020, with a significant dip around 2014 and a rise after 2018.
- Usage over time:** A line chart showing cloud usage over the same period.
- Carbon emissions amount by location (MTCO<sub>2</sub>e):** A map of the world with color-coded regions based on carbon intensity.
- Carbon emissions annual trends:** A bar chart showing annual trends from 2011 to 2020.
- Carbon emissions annual trends by Microsoft scope:** A bar chart showing trends by Microsoft scope from 2011 to 2020.
- Carbon emissions by Azure service:** A bar chart comparing emissions across various Azure services.

On the right side, there are summary statistics and a 'Get started' button.

## 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 >](#)

## Energy efficiency training

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

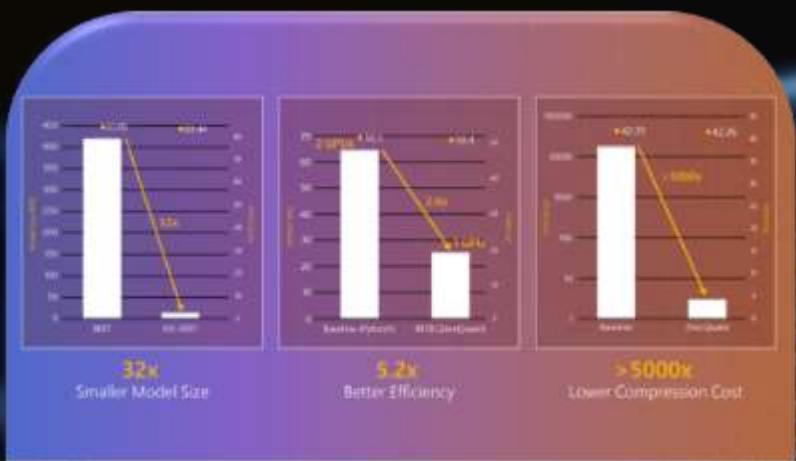
[Get started >](#)

## Renewable energy procurement training

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

[Get started >](#)

# Microsoft Research Blog



## [DeepSpeed Compression: A composable library for extreme compression and zero-cost quantization >](#)

Large-scale models are revolutionizing deep learning and AI research, driving major improvements in language understanding, generating creative texts, multi-lingual translation and many more. But despite their remarkable capabilities, the models' large size creates latency and cost constraints that hinder the deployment of applications on top...

July 20, 2022 by [DeepSpeed Team](#) and [Andrey Proskurin](#)



## [Confidential Containers: Verifiably secure computation in the cloud >](#)

For many organizations, trusting their data to the cloud requires having a complete understanding of and control over the environment in which that data resides and how it's being processed. Microsoft understands this, and we are committed to building a trustworthy cloud—one in which security,...

July 18, 2022 by [Sean T. Allen](#)



## [AI4Science to empower the fifth paradigm of scientific discovery >](#)

Over the coming decade, deep learning looks set to have a transformational impact on the natural sciences. The consequences are potentially far-reaching and could dramatically improve our ability to model and predict natural phenomena over widely varying scales of space and time. Could this capability...

July 7, 2022 by [Christopher Bishop](#)



# 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 (inQubits : INT) :
    using (qubits = Qubit [inQubits]) {
        // Initialize a uniform superposition over all
        PrepareUniform(qubits);
        // The search itself consists first repeated
        // marked state and our start state, which is
        // used as a for loop.
        for (idxIteration = 0...NIterations (inut
            ReflectAboutMarked(qubits);
            ReflectAboutUniform(qubits);
        )
        // Measure and return the answer.
        return ForEach (MResetZ, qubits);
    }
```

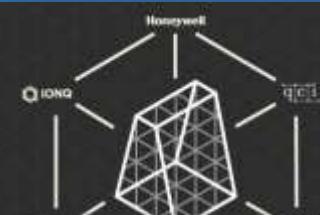
### Grow your quantum skills

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](#)

### 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.



### Unified development interface

With Azure Quantum and its [quantum development kit](#), what could be a heterogeneous 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

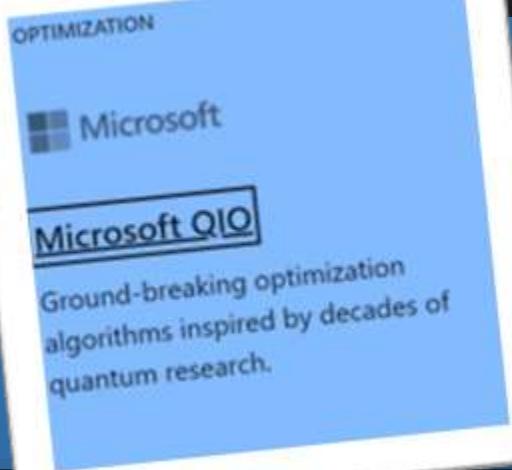


VIDEO

### InAs-AI Hybrid Devices Passing the Topological Gap Protocol >

August 05, 2022 | [Dr. Chetan Nayak](#)

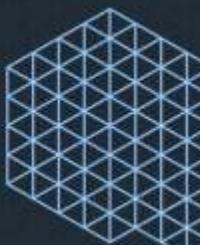
Dr. Chetan Nayak, Distinguished Engineer of Quantum at Microsoft, met with leaders in the Quantum industry to discuss Microsoft's recent hardware progress in July 2022. In this session, Dr. Nayak presents the measurements and simulations...



[Home](#) / [Solutions](#) / [Quantum](#) / [Technology](#)

### Building a scalable quantum system

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



# Showcase of the Month



# 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.

Aug 5, 2022 | Alex Fleck

### Maximizing Microsoft Finance's support experience with dynamic feedback and machine learning sentiment analysis

Managing financial transactions can be a tricky business. When Microsoft employees and external payees run into invoice or payment problems, they turn to our expert support agents for help. But how do those agents know what's working for their customers and what isn't? "As a customer-obsessed organization, we simply want to know how well we're..."

Jul 29, 2022 | Danielle Veluz

### Location-based routing enables Microsoft India move to Microsoft Teams

Editor's note: This story has been updated with new details and updated terminology. Location-based routing helped Microsoft overcome the challenge of finally moving its employees in India from Skype for Business to Microsoft Teams. Made more challenging by the outbreak of COVID-19 and by India's strict telecom regulations, the now-complete shift was the last large...

### Accelerating Microsoft's digital transformation with Microsoft Viva Goals

Tracking business deliverables and setting employee goals are key to any company's workflow and success. It's how companies ensure employees stay focused and prioritize big-picture initiatives. At Microsoft, we're learning that every team needs clear...

# 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 Power BI  
service



[See all 5 sessions >](#)

What is  
Machine  
Learning?



[Learn more >](#)

Creating  
accessible  
content with  
Microsoft accessibility  
solutions



[See all 7 sessions >](#)



Learn to be  
cyber smart  
with Microsoft  
security foundations



[See 2 sessions >](#)

Microsoft Virtual Training Days

# Microsoft Events and Training: Updates



## Microsoft Virtual Training Days

### Events Catalog



#### Microsoft Virtual Training Days

Multiple

Continue your learning journey with Microsoft Virtual Training Days that provide free, instructor-led, technical skilling in multiple languages and time zones across a variety of topics.

[Register today >](#)



### Further your goals with Microsoft events

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

#### Microsoft Azure Virtual Training Day: Cloud-Native Apps

9/13/2022 12:00 PM (EST)

[Register Now >](#)

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

9/20/2022 12:00 PM (EST)

Join us at Microsoft Azure Virtual Training Day: Linux OSS Database Migration to learn how to plan, manage, and optimize your cloud mig...

[Register Now >](#)

#### Stop Ransomware with Microsoft Security

September 15, 2022 | 9:00 AM-10:30 AM Pacific Time

Don't just react to threats. Get ahead of them. Join the free digital event, Stop Ransomware with Microsoft Security, on September 15 to learn how to safeguard your organization from today's attacks—and be ready for tomorrow's.

[Register now >](#)

#### Microsoft 365 Virtual Training Day: Building Microsoft Teams Integrations and Workflows

8/10/2022 12:00 PM (EST)

[Register Now >](#)

# **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



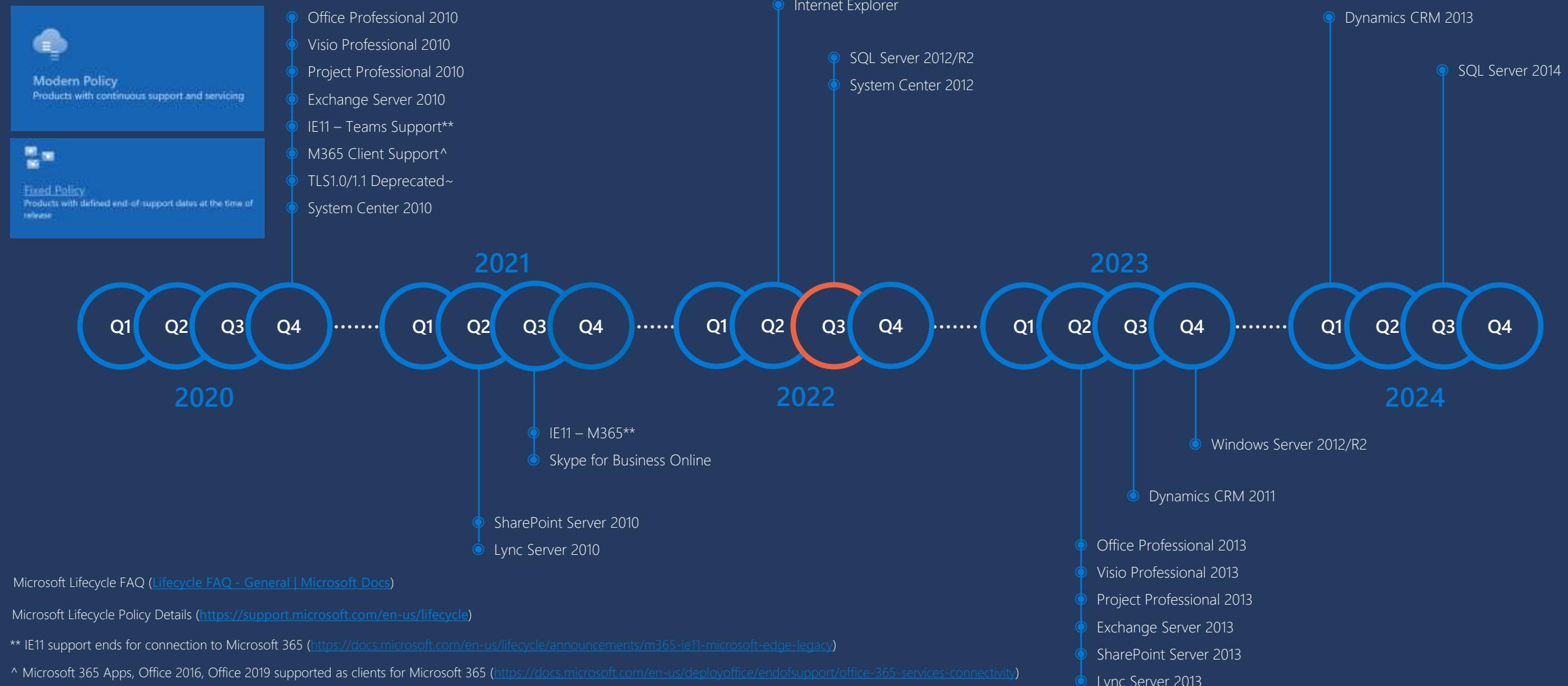
Login not working? Your organization may need to be onboarded to ESI. Please talk to your Microsoft Account Team.

# Product Lifecycles

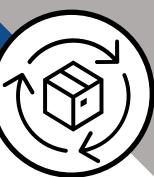




# End of Service Roadmap to 2024



# Microsoft Product Lifecycle: Modern Policy Products that will Retire



## Products under Modern Policy that will Retire in 2022

Products that will Retire in 2022 ( <u>Modern Policy</u> )	End of Support Date
<a href="#">Dynamics 365 for Talent</a>	<b>February 2, 2022</b>
<a href="#">Dynamics 365 Field Service (on-premises)</a>	<b>June 30, 2022</b>
<a href="#">Microsoft Machine Learning Server (Microsoft R Server)</a>	<b>July 1, 2022</b>
<a href="#">Windows Server</a>	<b>August 9, 2022</b>

## Products under Modern Policy that will Retire in 2023

Products that will Retire in 2023 ( <u>Modern Policy</u> )	End of Support Date
<a href="#">Microsoft Azure Virtual Machine (classic)</a>	March 1, 2023
<a href="#">Windows 11 Home and Pro (Version 21H2)</a>	October 10, 2023

### Lifecycle data export

#### Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

## Announcements

- ⌚ 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
- ⌚ Windows Server Semi-Annual Channel retiring on August 9, 2022
- ⌚ Office 2013 ends support in one year
- ⌚ Support extended for Dynamics 365 for Customer Engagement Apps, v9 (on-premises)
- ⌚ Retirement of SQL Server 2019 Big Data Clusters

- ⌚ Windows 10, version 20H2 end of servicing
- ⌚ Windows 10, version 1909 end of servicing (Enterprise and Education)
- ⌚ Mainstream support extended for BizTalk Server 2020 and Host Integration Server 2020
- ⌚ Office 2013 and Skype for Business 2015 end of support on April 11, 2023
- ⌚ UPDATE: Skype for Business Online retirement on July 31, 2021

[See more >](#)

# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2022

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2006</a>	<b>February 11, 2022</b>
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2020 release wave 2, version 17.x</a>	<b>April 12, 2022</b>
<a href="#">.NET 5.0</a>	<b>May 8, 2022</b>
<a href="#">Windows 10 Enterprise and Education, Version 1909</a> <a href="#">Windows 10 Home and Pro, Version 20H2</a> <a href="#">Windows 10 IoT Enterprise, Version 1909</a>	<b>May 10, 2022</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2010</a>	<b>May 30, 2022</b>
<a href="#">Azure Active Directory (AD) Connect, Version 1.x</a>	<b>August 31, 2022</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2103</a>	October 5, 2022
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2021 release wave 1, version 18.x</a>	October 11, 2022
<a href="#">.NET Core 3.1 (LTS)</a>	December 3, 2022
<a href="#">Windows 10 Enterprise and Education, Version 21H1</a> <a href="#">Windows 10 Home and Pro, Version 21H1</a> <a href="#">Windows 10 IoT Enterprise, Version 21H1</a>	December 13, 2022

## 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>	February 2, 2023
<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="#">Windows 10 Home and Pro, Version 21H2</a>	June 13, 2023
<a href="#">Azure Dev Spaces</a>	October 31, 2023

# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2022



## Products Reaching End of Support for 2022

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="#">Visual Studio LightSwitch 2011</a> <a href="#">Windows 7, Extended Security Update Year 2*</a> <a href="#">Windows Server 2008, Extended Security Update Year 2</a> <a href="#">Windows Server 2008 R2, Extended Security Update Year 2</a>	<b>January 11, 2022</b>	<a href="#">Microsoft Forefront Identity Manager 2010</a> <a href="#">Microsoft Forefront Identity Manager 2010 R2</a> <a href="#">SQL Server 2016, Service Pack 2</a> <a href="#">Visual Studio 2019, Version 16.9</a> <a href="#">Windows Embedded POSReady 7, Extended Security Update Year 1*</a> <a href="#">Windows Embedded Standard 7, Extended Security Update Year 2*</a>	October 11, 2022
<a href="#">AppFabric 1.1 for Windows Server</a> <a href="#">Dynamics AX 2009</a> <a href="#">Dynamics AX 2012</a> <a href="#">Dynamics AX 2012 R2</a> <a href="#">Visual Studio 2019, Version 16.7</a>	<b>April 12, 2022</b>	<a href="#">Azure StorSimple 1200 Series</a> <a href="#">Azure StorSimple 8000 Series</a> <a href="#">StorSimple Data Manager</a>	December 31, 2022
<a href="#">Microsoft .NET Framework, .NET Framework 4.5.2</a> <a href="#">Microsoft .NET Framework, .NET Framework 4.6</a> <a href="#">Microsoft .NET Framework, .NET Framework 4.6.1</a>	<b>April 26, 2022</b>		
<a href="#">Internet Explorer 11 on Windows 10</a>	<b>June 14, 2022</b>		
<a href="#">Cloud Platform System</a> <a href="#">Microsoft Report Viewer Redistributable 2012</a> <a href="#">Microsoft SQL Server 2008, Extended Security Update Year 3</a> <a href="#">Microsoft SQL Server 2008 R2, Extended Security Update Year 3</a> <a href="#">Microsoft SQL Server 2012</a> <a href="#">Microsoft System Center 2012 App Controller</a> <a href="#">Microsoft System Center 2012 Configuration Manager</a> <a href="#">Microsoft System Center 2012 Data Protection Manager</a> <a href="#">Microsoft System Center 2012 Endpoint Protection</a> <a href="#">Microsoft System Center 2012 Operations Manager</a> <a href="#">Microsoft System Center 2012 Orchestrator</a> <a href="#">Microsoft System Center 2012 R2 App Controller</a> <a href="#">Microsoft System Center 2012 R2 Configuration Manager</a> <a href="#">Microsoft System Center 2012 R2 Data Protection Manager</a> <a href="#">Microsoft System Center 2012 R2 Endpoint Protection</a> <a href="#">Microsoft System Center 2012 R2 Operations Manager</a> <a href="#">Microsoft System Center 2012 R2 Orchestrator</a> <a href="#">Microsoft System Center 2012 R2 Service Manager</a> <a href="#">Microsoft System Center 2012 R2 Virtual Machine Manager</a> <a href="#">Microsoft System Center 2012 Service Manager</a> <a href="#">Microsoft System Center 2012 Virtual Machine Manager</a> <a href="#">Windows Azure Pack (on Windows Server 2012 R2)</a>	<b>July 12, 2022</b>		

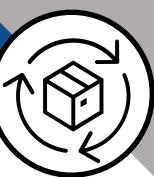
# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



## 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="#">Hyper-V Server 2012</a> <a href="#">Hyper-V Server 2012 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="#">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="#">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: Products moving to Extended Support



## Products Moving to Extended Support for 2022

<b>Products Moving to Extended Support (Fixed Policy)</b>	<b>End of Support Date</b>
<a href="#">BizTalk Server 2016</a>	<b>January 11, 2022</b>
<a href="#">Dynamics NAV 2017</a>	
<a href="#">HPC Pack 2016</a>	
<a href="#">Hyper-V Server 2016</a>	
<a href="#">Microsoft Host Integration Server 2016</a>	
<a href="#">System Center 2016 Data Protection</a>	
<a href="#">System Center 2016 Operations Manager</a>	
<a href="#">System Center 2016 Orchestrator</a>	
<a href="#">System Center 2016 Service Manager</a>	
<a href="#">System Center 2016 Virtual Machine Manager</a>	
<a href="#">Visual Studio Team Foundation Server 2017</a>	
<a href="#">Windows Azure Pack (on Windows Server 2016)</a>	
<a href="#">Windows Server 2016</a>	
<a href="#">Windows Storage Server 2016</a>	
<a href="#">Visual Studio 2017</a>	<b>April 12, 2022</b>
<a href="#">SQL Server 2017</a>	October 11, 2022

## Products Moving to Extended Support for 2023

<b>Products Moving to Extended Support (Fixed Policy)</b>	<b>End of Support Date</b>
<a href="#">Dynamics GP 2018</a>	January 10, 2023
<a href="#">Dynamics GP 2018 R2</a>	
<a href="#">Dynamics NAV 2018</a>	
<a href="#">Visual Studio Team Foundation Server 2018</a>	
<a href="#">Dynamics SL 2018</a>	July 11, 2023
<a href="#">Access 2019</a>	October 10, 2023
<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>	



# Acquisitions and Announcements

# Microsoft Acquisitions - 2022



Company	Date	Description
<a href="#">Miburo</a>	06-14-2022	<a href="#">Miburo</a> 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</b> operations 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="#">Minit</a>	03-31-2022	<a href="#">Minit</a> 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="#">Oribi</a>	02-28-2022	Microsoft's LinkedIn will acquire <a href="#">Oribi</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="#">Activision Blizzard</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> .



# Zero Trust Journey Across the Digital Estate

This book seeks to provide an end-to-end view of the Zero Trust approach across organizations' digital estates that includes strategy, business imperatives, architecture, solutions, human elements, and implementation approaches.

ROUTLEDGE



## Zero Trust Journey Across the Digital Estate

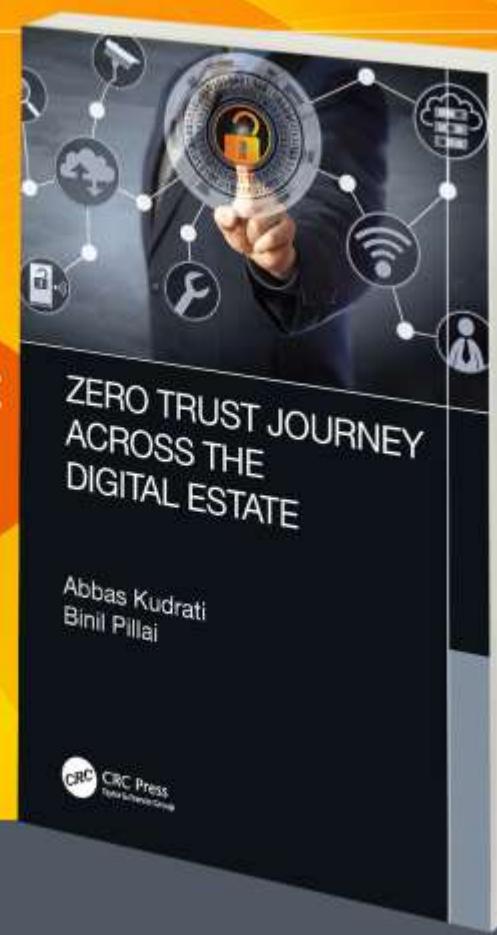
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