



Microsoft

Monthly Technical Update

APRIL 2022



Abbas Kudrati
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<https://aka.ms/abbas>

Microsoft

- [M365 Conference – April 2022](#)
- [Microsoft Envision – April 2022](#)
- [Microsoft Security Summit – May 2022](#)
- [Microsoft Build – May 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



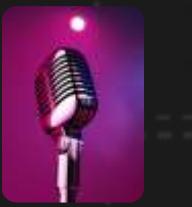
Product Lifecycles



Acquisitions and Announcements

- [Products Reaching End of Support in 2022 and 2023](#)
- [Companies and Technologies Acquired Since 2018](#)

FastTrack for Azure LIVE



Register here
[Webinar Registration](#)

Azure Monitor for SAP Solutions and Microsoft Sentinel Continuous Threat Monitoring for SAP

Tue, 5-April-2022
2:00 PM – 3:30 PM
CET (UTC+01:00)

Microsoft Teams meeting
This session is free of charge

Azure Monitor for SAP Solutions (AMS) is an Azure-native monitoring product for SAP landscapes on Azure.

Part 1

In the first part of this session, you will learn about AMS and how you can utilize it for monitoring your mission-critical SAP workloads for availability, performance, and operation.

Part 2

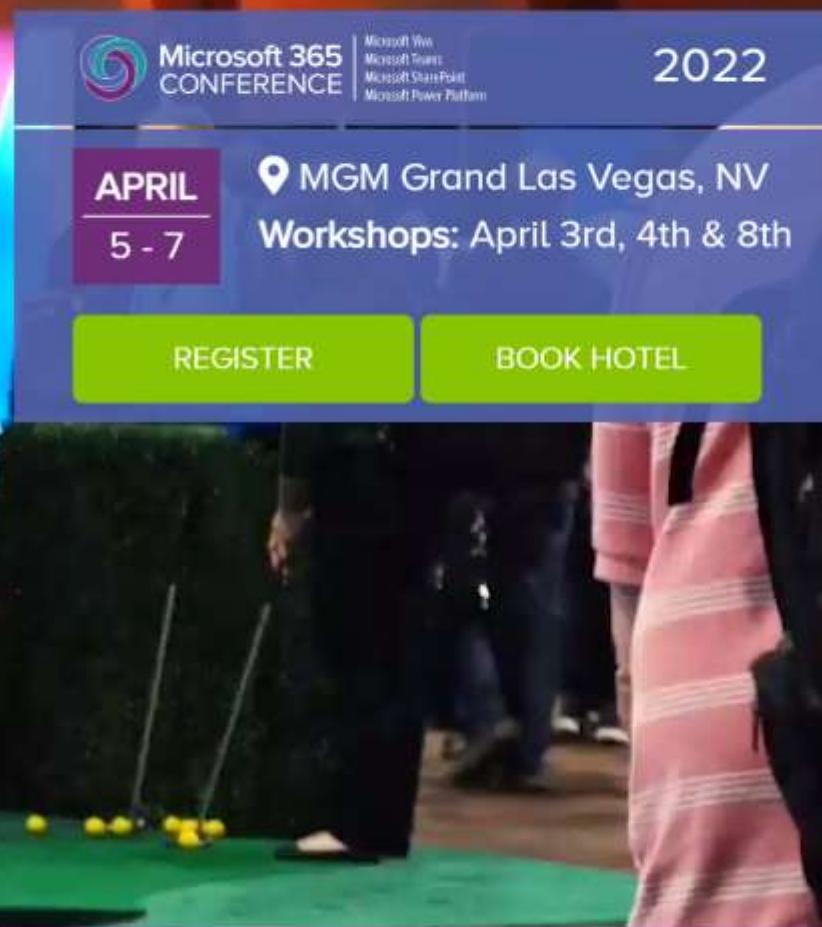
The second part will cover Microsoft Sentinel Continuous Threat Monitoring for SAP solution. Microsoft Sentinel is a cloud-native Security Information and Event Management (SIEM) and Security Orchestration, Automation, and Response (SOAR) solution. Join this session to learn about how to deploy, configure and monitor your SAP systems with Microsoft Sentinel for advanced threat detection.

Both presentations will be accompanied by demos.

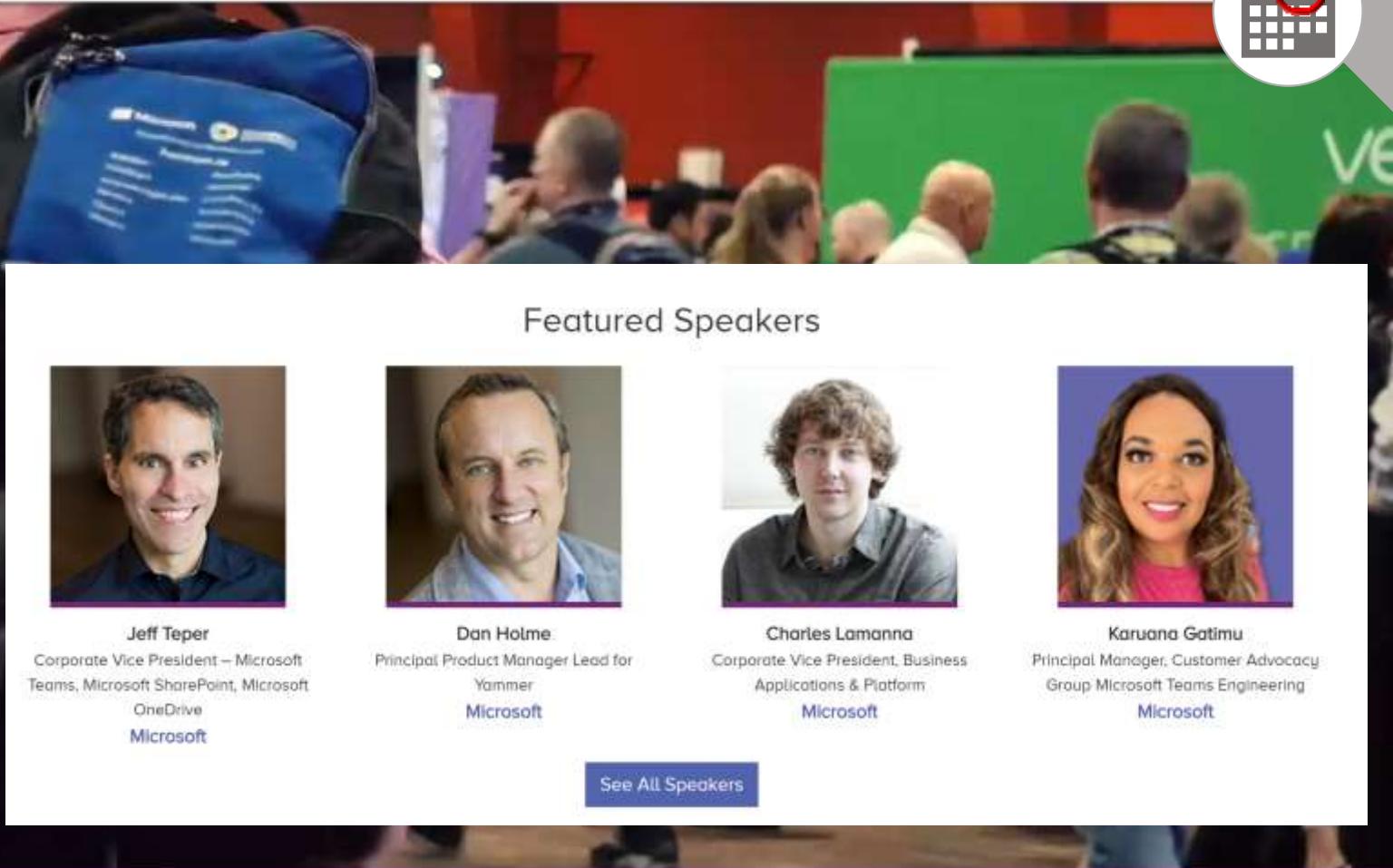
Speakers

Vinod Deshmukh Senior Service Engineer, EMEA FastTrack for Azure

Yigit Ertaylan Senior Service Engineer, EMEA FastTrack for Azure

 Microsoft 365
CONFERENCEMicrosoft Viva
Microsoft Teams
Microsoft SharePoint
Microsoft Power Platform

2022

APRIL
5 - 7MGM Grand Las Vegas, NV
Workshops: April 3rd, 4th & 8th[REGISTER](#)[BOOK HOTEL](#)

SPEAKERS

150

SESSIONS

200

WORKSHOPS

20

EXHIBITORS

100

Microsoft Envision

Microsoft Envision is a digital series where you'll join thought leaders from across industries to explore the latest business and technology trends. Get ready to discover the new wave of digital innovation and connect with peers from across the globe.



Five trends reshaping the world and how agility is key to helping organizations respond

Discover how transformational forces like the push for sustainability, the challenges of our global supply chain, and the rise of the attention economy are requiring organizations to adopt new solutions and remain agile, to thrive in the face of constant change.

[Register to watch on demand >](#)

Extended reality is a game-changer for the employee experience

Connecting, collaborating, and creating is the essence of what Accenture people do. How best to do this while virtual? Accenture shares how VR enables their employees to experience an omni-connected environment using Microsoft's AltspaceVR to train, collaborate, and network.

[Register to watch on demand >](#)

Shaping the sustainable organization to deliver financial value and lasting positive impact

Explore what it means for responsible leaders to shape sustainable organizations to deliver lasting value and equitable impact. Discover the benefits of having sustainability embedded into your organization's DNA, and the financial benefits and competitive advantage that this can unlock.

[Register to watch on demand >](#)

Missed the live show? There's still time to learn and explore all of the segments on demand

Register now for free and save the date for Episode 4 on April 12.

[Register for free](#)

[Sign in](#)

April 12, 2022



Seattle, Washington - May 9-13, 2022
3 Day Conference + 2 Optional Workshop Days



Two Conferences Worth of Content in One Location!

REGISTER ME

LEARN MORE

Microsoft 365 SharePoint Office 365 Teams Viva Azure OneDrive
Power Apps Power Automate Power BI Power Virtual Agents



50

SPEAKERS



130

SESSIONS



25

WORKSHOPS



500

PARTICIPANTS

SESSIONS FOR ALL LEVELS



With 2 optional days of workshops and a 3-day conference, you can choose from over 130 sessions in multiple tracks and 25 workshops presented by Microsoft 365, SharePoint, Power Platform and Azure's top experts!

ABOUT Microsoft 365 EduCon Seattle

Microsoft 365 EduCon (by SPFest) brings to you the world's leading experts in Microsoft 365, SharePoint, Office 365, Microsoft Teams, Power Platform and Azure. Whether you are new to Microsoft 365, SharePoint or Power Platform, or an experienced power user, admin or developer, 365 EduCon has content designed to fit your experience level and area of interest. Our workshops and sessions are taught by Microsoft Certified Trainers, Microsoft MVPs, Microsoft Regional Directors and Microsoft engineers.

At Microsoft 365 EduCon, subject matter is divided into tracks and each session is designated for beginner, intermediate or advanced. Tracks are offered for the following subjects: SharePoint, Power Platform, Office 365, Azure, Teams, OneDrive, Search, Content Management, Power Users, Business Value, Implementation/Administration, Workflow, Business Intelligence, SharePoint Development, and more.

Choose one complete learning track or mix and match based on what content best meets you and your organization's current needs!

FIND OUT MORE

Safeguard your future. Be fearless.

Microsoft Security Summit
Digital event / May 12, 2022

Register
now



Microsoft Security Summit

Home

Thursday, May 12, 2022 / 9:00 AM-12:00 PM Pacific Time (UTC-7)

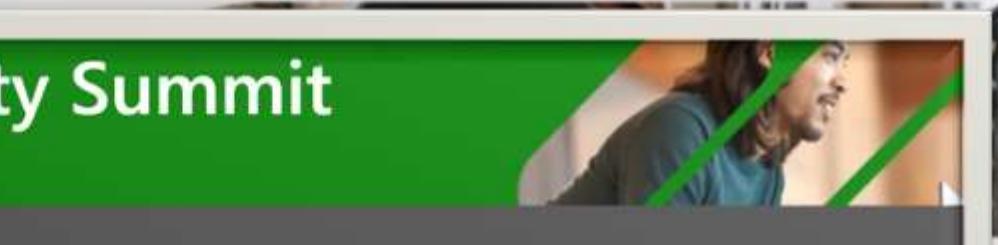
Comprehensive security for a more innovative future

To innovate fearlessly in a changing world, your organization needs end-to-end security it can trust. Attend this one-day event to learn how Microsoft Security can help you eliminate security vulnerabilities and lay the foundation for a safer, bolder, more innovative future.

Register for this free digital event to:

- Hear exciting announcements from leading voices in security—including Vasu Jakkal, Corporate Vice President of Security at Microsoft.
- See demos of brand-new technologies from Microsoft Security and get a closer look at the latest innovations in security, compliance, identity, privacy, and management.
- Get fresh insights on threat intelligence and security during a Live Chat Q&A with leading security experts.
- Hear from front-line defenders about how they are helping Microsoft to stay ahead of threats.
- Discover solutions you can use to deliver high quality end-to-end security to your organization.

Safeguard your future. Be fearless.





Microsoft Build

May 24–26, 2022

What's next in tech

Come together with peers and experts May 24–26, 2022, for an engaging experience around the latest in innovation and tools that will help you stay informed.

Designed for development

- Learn about the latest tech and developer innovations with announcements, news, and tutorials.
- New for this year, experience market-specific content and connection opportunities for France, Germany, Japan, Latin America, and the UK.
- Ask Microsoft subject matter experts your technical questions and network with others in your area through live, interactive sessions.

Frequently asked questions

[Visit FAQ to learn more >](#)

informa

Events Briefings Trainings Arsenal Summits Webinars Sponsorships About

black hat
ASIA 2022

REGISTER NOW

MAY 10-13, 2022
MARINA BAY SANDS / SINGAPORE
+ VIRTUAL

ATTEND TRAININGS BRIEFINGS ARSENAL FEATURES SCHEDULE BUSINESS HALL SPONSORS PROPOSALS

All times are Singapore Time (GMT/UTC +8h)

SCHEDULE

CONFERENCE AT A GLANCE

TUESDAY May 10	WEDNESDAY May 11	THURSDAY May 12	FRIDAY May 13
2-DAY TRAININGS			
	4-DAY TRAININGS		
		EXECUTIVE	

ATTEND TRAININGS BRIEFINGS ARSENAL FEATURES SCHEDULE BUSINESS HALL SPONSORS PROPOSALS

Challenges and Opportunities of Modern CISOs - Black Hat Asia 2022 | Sponsored Sessions Schedule

ALL SESSIONS
PRESENTERS

All times are Singapore Time (GMT/UTC +8h)

Challenges and Opportunities of Modern CISOs

Abbas Kudrati | APAC Chief Cybersecurity Advisor, Microsoft Asia

Date: Thursday, May 12 | 10:55am–11:20am (Business Hall Theater)

Format: 25-Minute Sponsored Session

Track: CS Cloud Security



Today, CISOs are facing a growing number of external and internal threats, which include managing digital adoption, supply chain risk, a remote workforce, insider risk, economic stress, and pandemic fatigue. To successfully cope with these critical responsibilities, CISOs need to be vigilant, up-to-date, and empowered to respond to security vulnerabilities and potential cyberattacks.



REGISTER NOW

AUGUST 6-11, 2022

MANDALAY BAY / LAS VEGAS
+ VIRTUAL

ATTEND

TRAININGS

BRIEFINGS

ARSENAL

FEATURES

SCHEDULE

BUSINESS HALL

SPONSORS

PROPOSALS

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

BLACK HAT USA 2022

August 6–11, 2022

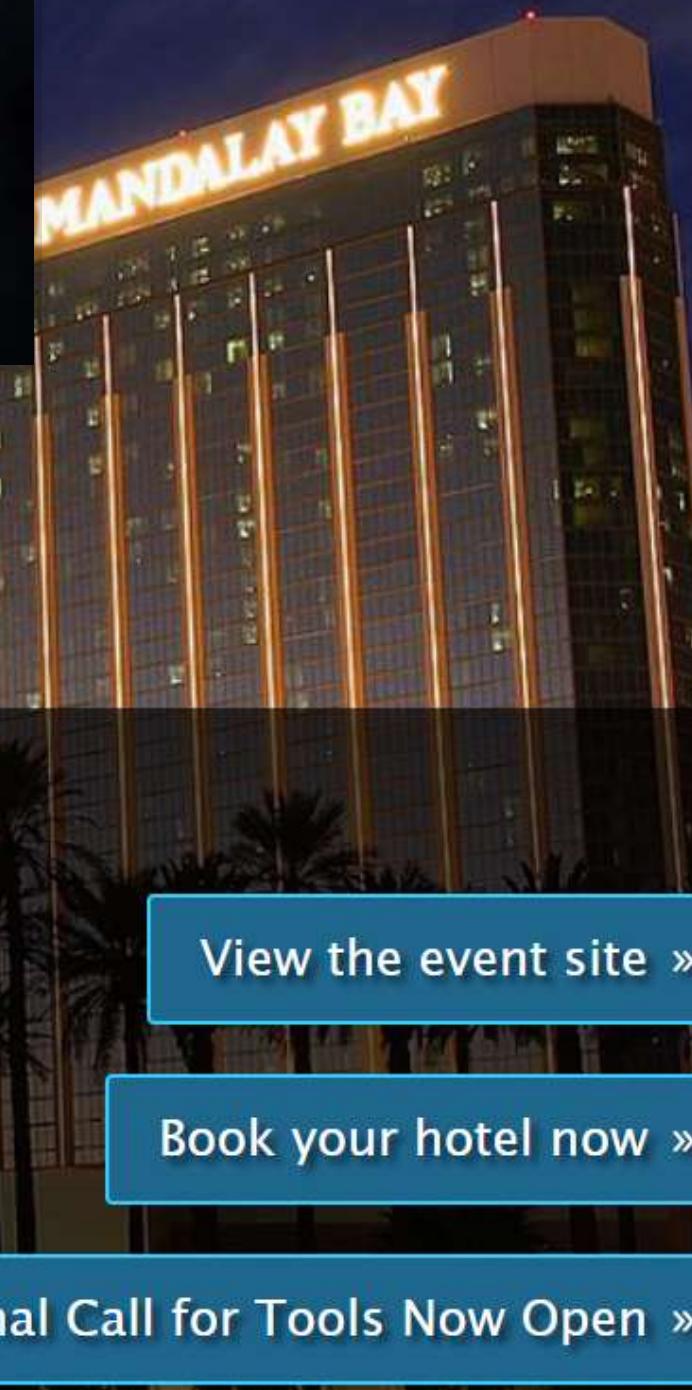
Mandalay Bay Convention Center, Las Vegas

+ Virtual

[View the event site »](#)

[Book your hotel now »](#)

[Arsenal Call for Tools Now Open »](#)



https://www.rsaconference.com/usa

RSAConference

Jun. 6 - 9, 2022
San Francisco

Events Library Experts Marketplace RSAC Programs About

Agenda Keynotes & Speakers Passes Networking Expo & Sponsors Programs Health Hub Venue

HOME - 2022 USA

RSAConference San Francisco

Moscone Center & Digital | Jun. 6 - 9, 2022

REGISTER NOW

TRANSFORM

Don't miss the industry-shaping action.

2022 USA | RSA Conference

[Register](#) for RSA Conference 2022 today and utilize code **54SMICROSXP** to receive a complimentary Expo pass.
In-person only

Microsoft Security

June 6-9, 2022

Microsoft at RSA Conference

Protect is all with Microsoft Security.

Dear,

As your Chief Cybersecurity Advisor, I want to invite you to join us at this year's [RSA Conference 2022](#) where the cybersecurity world comes together and brings together security professionals from across the globe to explore new technologies that are driving change, opportunities to collaborate and partner, and learn how to drive greater business impact in the security space.

Discover how Microsoft Security can help you protect it all by eliminating gaps, creating a comprehensive protection plan, and providing the expertise you need to innovate and grow in a changing world at this year's event.

We invite you to join us and explore the Microsoft activities designed for attendees to learn more about Microsoft's latest security innovations.

- Learn from Vasu Jakkal, Microsoft's CVP of Security, Compliance, and Identity: Vasu will headline the RSA Conference as a keynote speaker on Tuesday, June 7, 2022 at 3:35 PM – 3:55 PM, focusing on **Innovation, Ingenuity, and Inclusivity: The Future of Security is Now**
- Visit our exhibition booth #6059: Located at Moscone North Expo we'll be showcasing our latest innovations and additional in-booth theater sessions featuring demonstrations, videos, and resources.
- Schedule one-on-one meetings: Meet with senior leaders and industry experts either in-person or virtually, who are ready to strategize, share insights & best practices and answer all your questions.
- Explore Microsoft sessions: During this event Microsoft will be conducting multiple sessions showcasing the latest in Microsoft's security innovation, be sure to join us!
- Microsoft Security Pre-Day: Join us for an immersive experience that brings Microsoft solutions and products to life on June 5, 2022, at Bespoke in San Francisco.

Register for RSA Conference 2022 today and utilize code **54SMICROSXP** to receive a complimentary Expo pass.

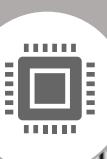
[Register Today](#)

Updates of Security and Compliance



Monitoring Global Threats: Microsoft

Microsoft Security Response Center



Select region ▾

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

Show all industries >

Devices with encounters:
206,834 (2.38%)

Most affected industries

Business and professional services
206,834 (2.38%)

Manufacturing and technical services
102,230 (1.12%)

Health care and pharmaceuticals
82,230 (0.90%)

Automotive and transportation
62,230 (0.68%)

April 4, 2022 • 11 min read

SpringShell RCE vulnerability: Guidance for protecting against and detecting CVE-2022-22965

Microsoft provides guidance for customers looking for protection against exploitation and ways to detect vulnerable installations on their network of the critical vulnerability CVE-2022-22965, also known as SpringShell or Spring4Shell.

Telecommunications ▾

Top threats:

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

March 22, 2022 • 17 min read

DEV-0537 criminal actor targeting organizations for data exfiltration and destruction

The activity we have observed has been attributed to a threat group that Microsoft tracks as DEV-0537, also known as LAPSUS\$. DEV-0537 is known for using a pure extortion and destruction model without deploying ransomware payloads.

Worldwide

96,432,263 devices with encounters

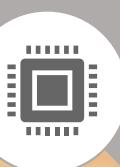
Top threats:

HackTool:Win32/AutoKMS
HackTool:Win64/AutoKMS
HackTool:Win32/Keygen
Trojan:Win32/Tnega!ml
HackTool:MSIL/AutoKms

March 16, 2022 • 6 min read

Uncovering Trickbot's use of IoT devices in command-and-control infrastructure

The Microsoft Defender for IoT research team has recently discovered the exact method through which MikroTik devices are used in Trickbot's C2 infrastructure. In this blog, we share the analysis of this method and provide insights on how attackers gain access and how they use compromised IoT devices in Trickbot attacks.



April 5, 2022 • 8 min read

New security features for Windows 11 will help protect hybrid work

Attackers haven't wasted any time capitalizing on the rapid move to hybrid work. Every day cyber criminals and nation states alike have improved their targeting, speed and accuracy as the world adapted to working outside the office.

[Read more >](#)

March 10, 2022 • 5 min read

Why decentralization is the future of digital identities

Our identity is increasingly becoming digitized –more of our hard copy credentials are converting into digital formats. We use these digital credentials to work, learn, play, socialize, shop, and consume services online and offline every day.

April 5, 2022 • 6 min read

Microsoft 365 Defender demonstrates industry-leading protection in the 2022 MITRE Engenuity ATT&CK® Evaluations

For the fourth consecutive year, Microsoft 365 Defender demonstrated industry-leading protection in MITRE Engenuity's independent ATT&CK® Enterprise Evaluations. These results highlighted the importance of taking an XDR-based approach spanning endpoints, identities, email and cloud, and the importance of both prevention and protection.

Unified XDR experience to GCC, GCC High and DoD customers

March 29, 2022 • 5 min read

3 steps to secure your multicloud and hybrid infrastructure with Azure Arc

In this blog, we will share how you can increase security for on-premises and hybrid infrastructure through offerings including Azure Arc, Microsoft Defender for Cloud, and Secured-core for Azure Stack HCI.

March 31, 2022 • 4 min read

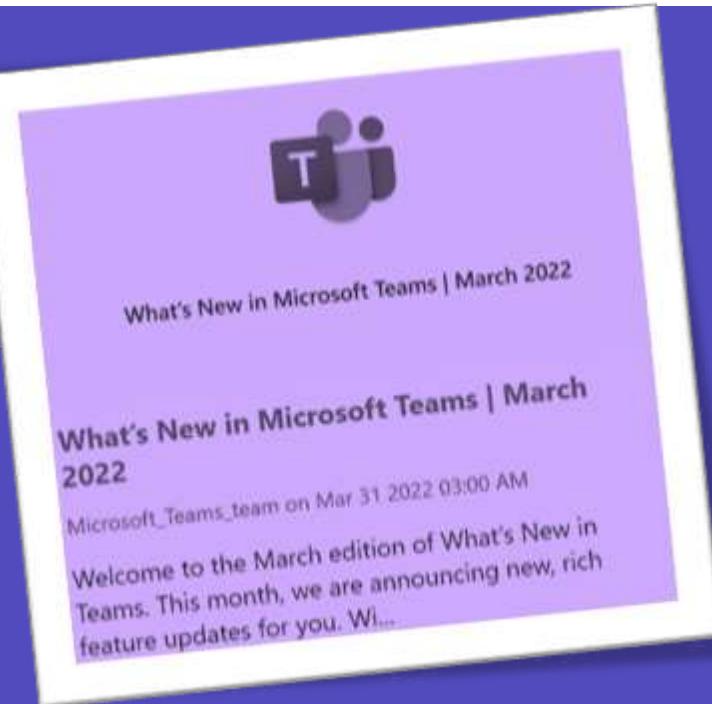
3 strategies to launch an effective data governance plan

A data governance plan can help you effectively govern sensitive data so you can reduce risks from data breaches or leaks. Read three steps to launch a data governance plan.



Microsoft 365 update information

Microsoft Teams Blog:



New for This Month:

- [Small and Medium Business :: Updates](#)
- [Search Results Page in Teams :: Performance Update](#)
- [Customer Lockbox for Microsoft Teams](#)
- [Automated Webinar Invite](#)
- [Day view in Calendar on iOS and Andriod](#)
- [Support of Live Caption for Teams on VDI for Azure Virtual Desktop and Windows 365](#)
- [Auto-Expiration of Meeting Recordings stored on OneDrive and SharePoint :: Admin :: User](#)
- [Roaming Bandwidth Control](#)
- [Music on Hold for VoIP Calls](#)

Chat and Collaboration

- [New Search experience in mobile app](#)



Devices:

- [Neat Board – Certified Android Teams Rooms](#)
- [Neat Bar and Neat Pad – Optimize Meeting Rooms](#)
- [Dell Slim Conferencing Soundbar and Speakerphone](#)
- [Teams Device Showcase Website expands its reach to 11 new countries](#)

Healthcare

- [Microsoft Teams EHR connector for Cerner :: Generally Available](#)
- [Virtual appointment device tester :: Generally Available](#)
- [Teladoc Health Solo™ with Microsoft Teams :: Generally Available](#)
- [Empower your healthcare workers on the frontline](#)
- [Microsoft Teams for Healthcare :: Updates](#)

Frontline Workers

- [Task publishing editing](#)
- [Teams Shifts connector for Blue Yonder](#)
- [Walkie Talkie app in Teams is available on Sonim XP8](#)
- [Global sign in and sign out](#)
- [Approvals app in Teams now available in Microsoft 365 F1 SKUs for frontline workers](#)

Power Platform and Custom Development

- [Microsoft Teams Connect support for third-party and custom tab app configuration](#)
- [Changes to Microsoft Teams apps' native permissions in the browser](#)
- [New Zendesk app for Teams](#)
- [New Power Automate entry points in-Teams](#)
- [Tab actions are moving](#)

Microsoft Cloud Principle	Architectural Engineering Principles
Designing for Resiliency	Active-Active architecture No single points of failure Observability
Granular Fault Isolation	Partitioning for blast radius reduction Fault tolerance through replication and redundancy
Safe Change Management	Automated deployment pipeline across gated rings Worldwide Security Development Lifecycle

Ensuring reliable and trusted experiences for...

Mark_Longton on Mar 21 2022 08:00 AM

As the workplace moves to a hybrid model, organizations are tasked with supporting the communication and collaboration n...

Management:

- [Team Search on Teams admin center - phase 1](#)
- [Export Teams list from Teams Admin Center](#)
- [Virtual Visits usage report in Teams Admin Center](#)
- [List of the joined teams per user in Teams admin center](#)

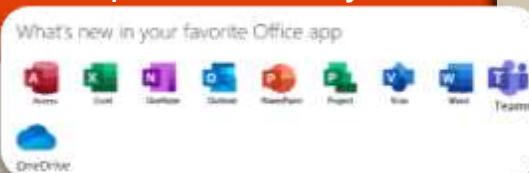
Government Cloud Updates : GCC-High and DoD Clouds:

- [End-to-end encryption \(E2EE\) for one-to-one Teams calls for GCCH and DoD](#)
- [Guest access support on mobile for GCC-High](#)
- [Pin or hide your own video in Teams meetings](#)
- [Large Gallery and Together Mode in Teams Meetings on VDI](#)
- [Video streams out via AJA or Blackmagic Design Hardware](#)
- [Isolated audio feed capabilities](#)
- [Approvals templates for GCC-High and DoD](#)



What's New in Microsoft 365

[M365 Blogs](#), [Office Blogs](#), and [Administrative Blogs](#) covering Office 365, Enterprise Mobility + Security and Windows ::



Microsoft 365 Updates:

- [Microsoft 365 Conference : April 5 -7, 2022](#)
- [Introducing @mentions in Visio for the web](#)
- [Office Cloud Policy Services :: New look-and-feel](#)
- [Azure AD Device Overview :: Generally Available](#)
- [Azure AD RBAC: Custom roles & administrative units for devices :: Generally Available](#)
- [Azure AD for Salesforce MFA : Generally Available](#)
- [Revamped Office.com for Business and Education customers](#)
- [Viva Learning :: Feature Updates](#)
- [New Viva Learning Resources](#)
- [Four New detections in Azure Active Directory \(Azure AD\) Identity Protection](#)
- [Dictate comments in your document review](#)
- [Cards View for tables in Excel for iOS](#)
- [Name Manager for Excel updates](#)

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](#)

Same delightful experiences Available everywhere you work

Microsoft Teams apps designed for Microsoft 365 coming in...

Mamta Kumar on Mar 31 2022 10:01 AM

Learn about managing enhanced Teams apps built for Microsoft 365 coming in Preview

Now Available – A Revamped Office.com for Business and...

Bill Doll on Mar 10 2022 10:02 AM

We've just reached 100% rollout on some several new enhancements for Office.com and the Office app for Windows which are...

Welcome back! What do you want to learn today?

Viva Learning news and feature update

John_Mighell on Mar 08 2022 09:00 AM

Viva Learning highlights new partner announcements, early adopter spotlights, and new features updates.

Woodgrove-DC01 | Properties

Manage Properties Roles and administrators (Preview) Administrative Units (Preview)

Name: Woodgrove-DC01 Device ID: 02463 Object ID: Enabled

Azure AD RBAC: Custom roles & administrative units for...

Alex Simons (AZURE) on Mar 31 2022 12:00 PM

Delegate granular device permissions while maintaining least privilege in your tenant.

Power Platform and Dynamics

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

- Additional gateway security roles for Power BI
- [The Power BI app is coming to Microsoft Outlook and Microsoft Office :: Preview](#)
- Microsoft named a Leader in the 2022 Gartner® Magic Quadrant™ for Analytics and BI Platforms
- See what's new for Power Apps at the [Microsoft Business Applications Launch Event](#)
- New Power Apps application on Windows :: Preview
- Microsoft Power Platform API :: Preview
- [Power Platform tools for Visual Studio Code :: Generally Available](#)
- [Power Automate for Desktop :: March Update](#)
- [23 New and Updated Connectors :: Power Automate](#)



Create an Azure DevOps work item when email arrives with 'Bug' in subject

By Microsoft

Automated
2457



Send an email to responder when response submitted in Microsoft Forms

By Microsoft Power Automate Community

Automated
181475



Manufacturers are mitigating disruptions with HoloLens 2 and Dynamics 365 mixed reality solutions >

March 24, 2022 • 5 min read

By [Ronan Jenkins](#), Global Product Marketing Manager for HoloLens 2

The challenges of the past few years have highlighted that no business is immune to sudden changes. Embracing mixed reality as a strategic initiative is key to ensuring business continuity and solidifying future stability and resiliency. Microsoft's comprehensive ecosystem of mixed reality solutions, including Microsoft HoloLens 2, Dynamics 365 Remote Assist, and Dynamics 365 Guides,...[Read more](#)



See what's new for Dynamics 365 at the Microsoft Business Applications Launch Event >

March 30, 2022 • 2 min read

By [Keith Barnett](#), Sr. Marketing Communications Manager, Dynamics 365

Organizations face new challenges every day. Priorities change, markets shift, opportunities emerge—the pace isn't slowing down. As your competitors transform their business models and customer expectations evolve, your future depends on how well you can empower your teams to adapt, innovate, and make a positive impact every day. You need to be ready for disruption,...[Read more](#)



Watch how to improve on-the-job guidance with mixed reality >

March 29, 2022 • 3 min read

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

Traditional guidance or upskilling usually requires a trained trainer, a trainee, some mix of resources like work instructions, parts manuals, or checklists, and a real-world or simulated task to perform. In this scenario, a skilled worker (the trained trainer) guides the trainee through the job until they have mastered the process and can work alone....[Read more](#)



Developer and GitHub



Release Radar · March 2022 Edition

Each month, we highlight open source projects that have shipped major updates. These include everything from world-changing technology to developer tooling, and weekend projects. Here are our top staff picks on projects that shipped major version releases in March. Babylon.js 5.0 We featured Babylon.js in the November 2020 Release Radar. Since then, Babylon.js has come [...]

Michelle Manning April 11, 2022



GitHub Blog

- [Response to the war in Ukraine](#)
- [Prevent the introduction of known vulnerabilities into your code](#)
- [How Dependabot empowers you to keep your projects secure](#)
- [GitHub Copilot now available for Visual Studio 2022](#)
- [Introducing the GHES repository cache](#)
- [Save time with partial re-runs in GitHub Actions](#)
- [Git Credential Manager: authentication for everyone](#)
- [An update on recent service disruptions](#)
- [Achieving SLSA 3 Compliance with GitHub Actions and Sigstore for Go modules](#)
- [Proactively prevent secret leaks with GitHub Advanced Security secret scanning](#)

Microsoft Developer Blogs:

- [Visual Studio is 25 Years Young](#)
- [Visual Studio 2022 for Mac : Preview 8](#)
- [Pure Virtual C++ Event :: April 26, 2022](#)
- [Using GitHub Codespaces and Visual Studio Code for C++ Development](#)
- ["New Boards Hub" – Azure DevOps :: Public Preview](#)
- [Testing large quantum algorithms using sparse simulation](#)
- [New M365 Unified Sample Gallery :: Over 1000 Samples](#)
- [Azure Artifacts :: Native Support to use packages from More Repositories](#)

Validate all the things: improve your security with input validation!

If there's one habit that can make software more secure, it's probably input validation. Here's how to apply OWASP Proactive Control C5 (Validate All Inputs) to your code.

Jaroslav Lobacevski March 21, 2022

Prevent the introduction of known vulnerabilities into your code

The new dependency review action and API prevents the introduction of known supply chain vulnerabilities into your code.

Courtney Claessens April 6, 2022

4 ways we use GitHub Actions to build GitHub

From automating builds and releases to taking care of large-scale regression testing, here are a few ways we use GitHub Actions to build GitHub.

Brian Douglas April 5, 2022

How to secure your end-to-end supply chain on GitHub

Securing your projects is no easy task, but end-to-end supply chain security is more top of mind than ever. We've seen bad actors expand their focus to taking over user accounts, commonly used dependencies, and also build systems. Defending against these attacks is hard, because there's no one thing you can do to protect your [...]

Zachary Steindler March 28, 2022

GitHub Copilot now available for Visual Studio 2022

GitHub Copilot is now available from Visual Studio 2022 for everyone in the technical preview.

Martin Woodward March 29, 2022

Office Developer Blogs and Microsoft 365 Dev Center



Build powerful applications for Office

Use the Office JavaScript API to extend functionality for Word, Excel, PowerPoint, and Outlook.



Start with the Microsoft identity platform

[Get started >](#)

Connect to data through Microsoft Graph

[Learn more >](#)

Extend your solution through Microsoft Teams

[Build for Teams >](#)

Publish to Microsoft AppSource

[Publish your app >](#)

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 :: M365 DevBlogs

- [Live Response API's for Microsoft Defender for MacOS, Linux and Windows](#)
- [Microsoft 365 Unified Sample Gallery](#)
- [Microsoft Graph API support :: new content-type sync enhancements](#)
- [End-of-service for SharePoint Online Machine Translation Service and APIs](#)
- [New Permissions for Teams chats and tags APIs](#)
- [SharePoint Framework 1.15 :: Public Preview](#)
- [Excel Developer Updates and new sample code](#)
- [Script Lab :: JavaScript API tool updates](#)
- [Office Developer Tools and Templates](#)

Azure



Azure Updates

Azure Announcements : Azure Blog

VMs, Features, & Announcements

- [Azure Ebsv5 VMs – Increased Storage Performance](#) :: Generally Available
- [Azure Space Developer Tools](#) :: Generally Available
- [Ampere Altra ARM-Based Processor VMs](#) :: Public Preview
- [Bring your own IP addresses \(BYOIP\) to Azure with Custom IP Prefix](#)
- [Accelerate silicon design innovation on Azure with Synopsys Cloud](#)
- [RISE with SAP on the Microsoft Cloud: A year in review](#)
- [Microsoft launches Azure Health Data Services to unify health data and power AI in the cloud](#)

Data, AI, Security, & Availability

- [Accelerate AI Applications with Azure NC A100 v4 Virtual Machines](#)
- [Private Link Support for Azure API Management](#) – Secure APIs
- [Azure Databricks Delta Live Tables](#) :: Generally Available
- [DNS reservations to prevent subdomain takeover in Cloud Services deployments](#) :: Generally Available
- [Azure Bastion support for Kerberos authentication](#) :: Public Preview
- [Azure confidential computing with NVIDIA GPUs for trustworthy AI](#)
- [Azure Arc integration with VMware vSphere and Azure VMware Solution](#) :: Public Preview
- [Azure Data Explorer supports Conditional Access](#) :: Generally Available
- [Always Encrypted for Azure Cosmos DB](#) :: Generally Available

Operations & Benefits

- [Azure Reservations](#) :: Optimize your Cloud investment
- [Azure Backup supports Vault-Archive tier for Azure VMs](#) :: Generally Available
- [Cloud migration for medical imaging data using Azure Health Data Services and IMS](#)
- [Learn how Microsoft Circular Centers are scaling cloud supply chain sustainability](#)

Diversifying the telecommunications supply chain with Open RAN

Wednesday, March 30, 2022

Over the past few years, there has been an increasingly steady drumbeat for the need to diversify and open the telecommunications supply chain. A key part of this supply chain that can be diversified is radio access network (RAN), where operators have typically spent most of their investments in network infrastructure. To address the need for diversification, groups such as the O-RAN alliance have formed to open up RAN capabilities.

[Victor Bahl](#), Microsoft Technical Fellow and Chief Technology Officer, Azure for Operators

The future is on FHIR for SAS and Microsoft Azure

Wednesday, April 6, 2022

High tech industry leaders like Microsoft, with strategic partners including global analytics software company SAS, are driving towards increased interoperability through standards such as Fast Healthcare Interoperability Resources (FHIR). Together, SAS and Microsoft Azure are building deep technology integrations that unlock value by making disparate data and advanced analytics more accessible to health and life science organizations.

[Trent Norris](#), HLS Cloud and Data Partner Alliances



PCI compliance with credit card tokenization



Payment Card Industry Data Security Standard (PCI DSS)

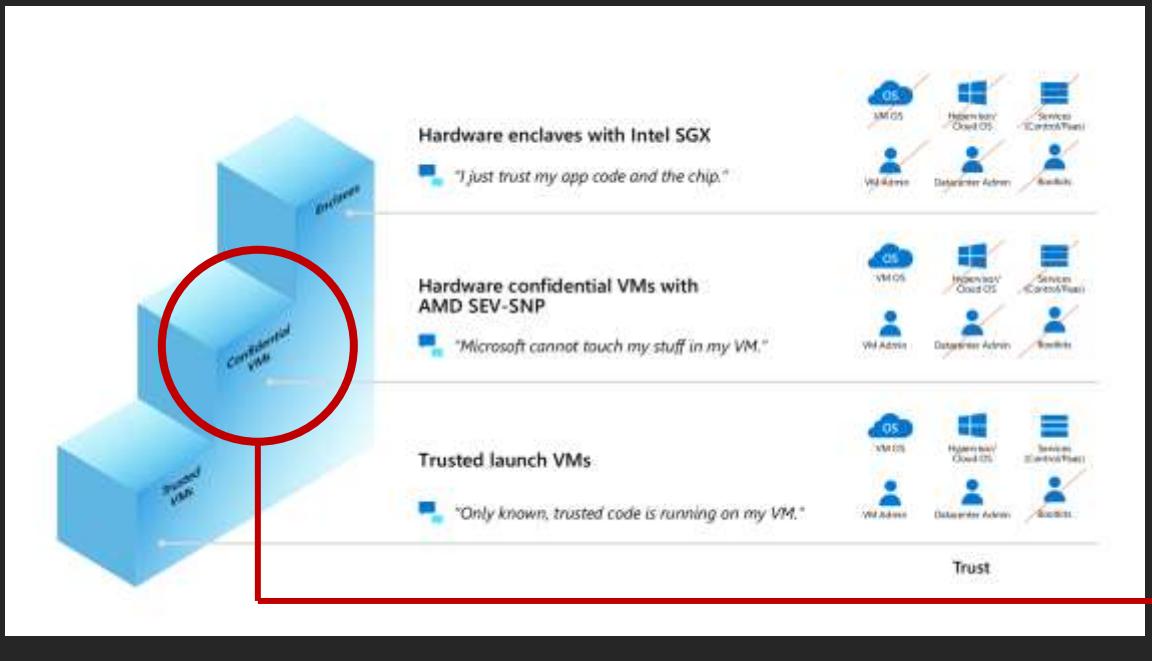
In this context, **PCI compliance** refers to meeting the PCI DSS' requirements for organizations and sellers to help **safely and securely accept, store, process, and transmit** cardholder data during credit card transactions, **to prevent fraud and theft**.

Confidential computing isolates your sensitive data while it's being processed.

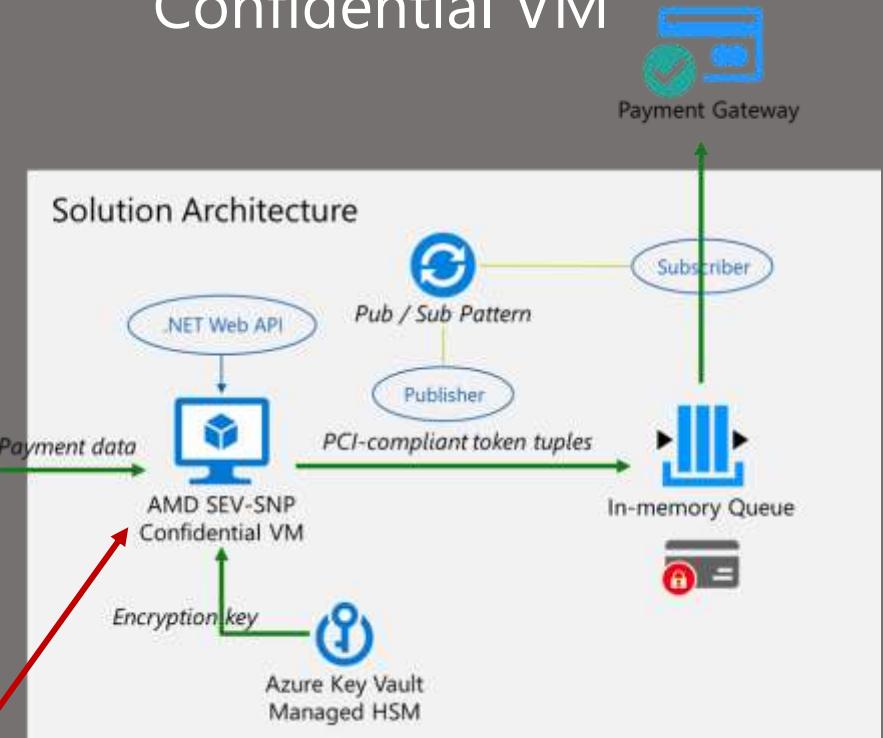


Azure Confidential Computing

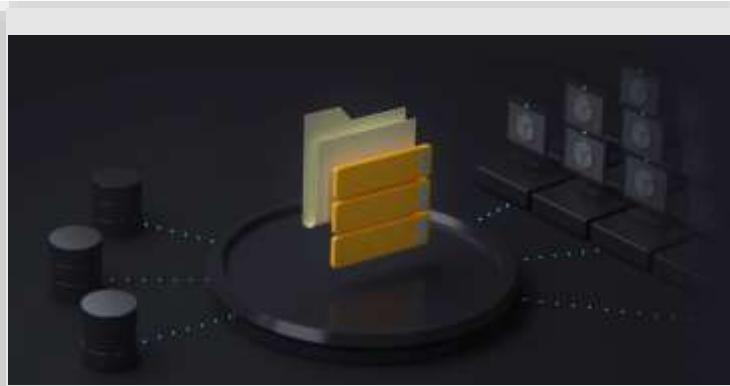
- Encrypts data in memory in hardware-based trusted execution environments and processes it only after the cloud environment is verified.
- Build on top of secure hardware using familiar tools, software, and cloud infrastructure



Credit Card Tokenization using Azure Confidential VM

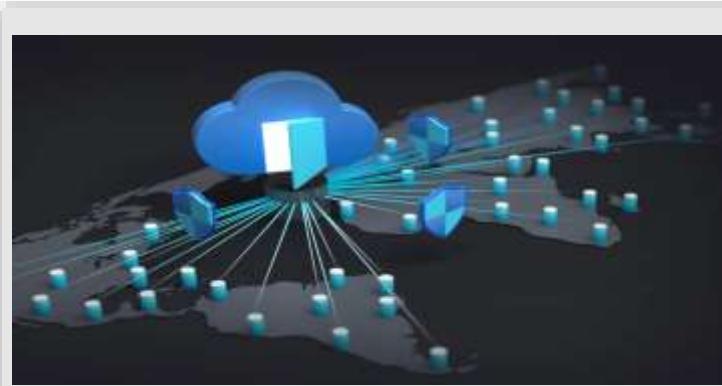


Azure Services Directory



Avere vFXT for Azure

Run high-performance, file-based workloads in the cloud



Microsoft Azure Attestation

Unified solution for remotely verifying the trustworthiness of a platform and integrity of the binaries running inside it



Azure Internet Analyzer PREVIEW

Test how networking infrastructure changes will impact your customers' performance

Avere vFXT for Azure

- ❖ Process large datasets – terabytes to petabytes – quickly in Azure
- ❖ Automatically identify and cache active data for demanding workloads
- ❖ File-based applications access Azure through NFS, SMB or Azure Blob storage (REST)
- ❖ Supports Hybrid-Cloud and Cloud bursting architectures
- ❖ Used for visual effects rendering, life science, and HPC workloads

Azure Attestation

Verify the identity and security posture of a platform before you interact with it

- ❖ Receive evidence from the platform and validate it with Security Standards
- ❖ Produce an attestation token for claims-based applications
- ❖ Supports Trusted Platform Modules (TPMs) and Trusted Execution Environments (TEEs) like Intel Software Guard Extensions (SGX) and Virtualization-based Security (VBS) enclaves
- ❖ Enforces customized Attestation Policies

Azure Internet Analyzer: Preview

- ❖ Test and measure how changes to your cloud network architecture affects your user's performance over the internet
- ❖ Evaluate the Impact of Migration – at any stage
- ❖ Test Azure Services before going live
- ❖ Utilize custom options to compare current endpoints with Azure Services
- ❖ Network performance test results in daily, weekly and monthly reports
- ❖ Test and compare the performance between on-premises infrastructure and Azure

New trends with Microsoft Technology



Updates from Microsoft Industry Blogs



Microsoft helps the public sector meet sustainability goals with technology >

March 31, 2022 • 2 min read

By [Julia Gladden](#), Corporate Vice President, Worldwide Public Sector

One of today's greatest global challenges is the impact of climate change, which is causing an increase in extreme weather events such as floods, fires, hurricanes, and droughts. In light of these threats to vulnerable communities worldwide, public sector organizations play a vital role in protecting lives and livelihoods, and mitigating the impact of climate... [Read more](#)



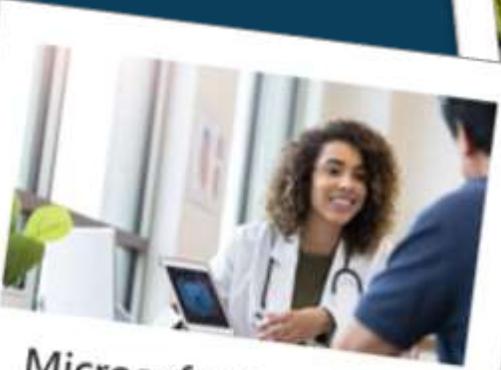
Scale to revenue: How to leverage fintech solutions to drive growth >

April 4, 2022 • 4 min read

By [Roman Choud](#), Managing Director, Fintech Microsoft

[Gerald Rhee](#), Principal, United States Private Capital Team

Roman and Gerald unpack how the right technology partner can transform the start-up ecosystem. Organizations that pay attention to community and social responsibility are far more likely to see growth, traction, and employee loyalty. In fact, according to the 2019 Aflac Corporate Social Responsibility Survey¹, they're also more likely to gain consumer loyalty—77 percent of... [Read more](#)



Microsoft Cloud for Healthcare: Transforming patient care through data and insights >

April 5, 2022 • 7 min read

By [Satish Thomas](#), Corporate Vice President, Microsoft Industry Clouds

The healthcare industry has been accelerating its digital transformation journey—addressing challenges to meet the needs of patients, providers, and payors. At the heart of this evolution is the need to connect disparate data sources to unlock end-to-end views of patients and resources. Capitalizing on this further is the opportunity for real-time communication and collaboration tools... [Read more](#)



High-performance computing for accelerated vehicle innovation >

March 30, 2022 • 6 min read

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

[Dwayne Crocker](#), Industry Solutions Director – Autonomous Development

High-performance computing (HPC) is a set of computing, networking, and storage resources integrated and orchestrated to optimize workloads or applications in cloud-enabled environments. HPC enables optimization and orchestration of on-demand central processing unit (CPU), graphics processing unit (GPU), and other computing resources needed to run intensive jobs or workloads. An organization has several options available...



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 Industry Vertical Clouds

delivering capabilities that are unique to specific industries



Microsoft Industry Clouds



Microsoft Cloud for Healthcare

Deliver better experiences, better insights, and better care.

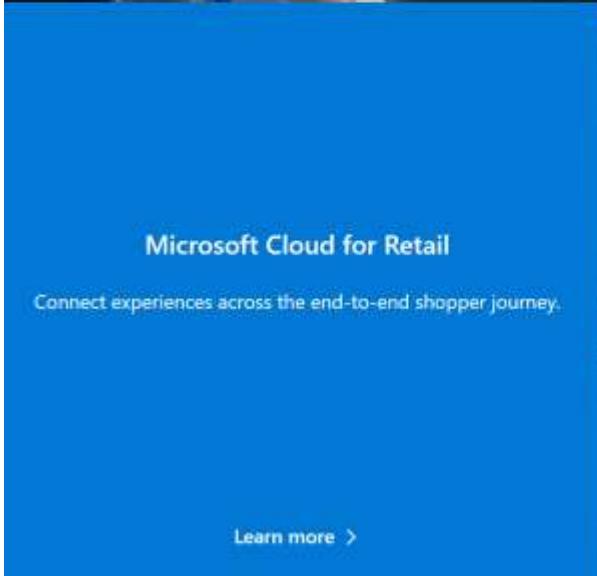
[Learn more >](#)



Microsoft Cloud for Manufacturing

Manufacture a more resilient and sustainable future.

[Learn more >](#)



Microsoft Cloud for Retail

Connect experiences across the end-to-end shopper journey.

[Learn more >](#)



Microsoft Cloud for Financial Services

Accelerate innovation and achieve sustainable growth.

[Learn more >](#)

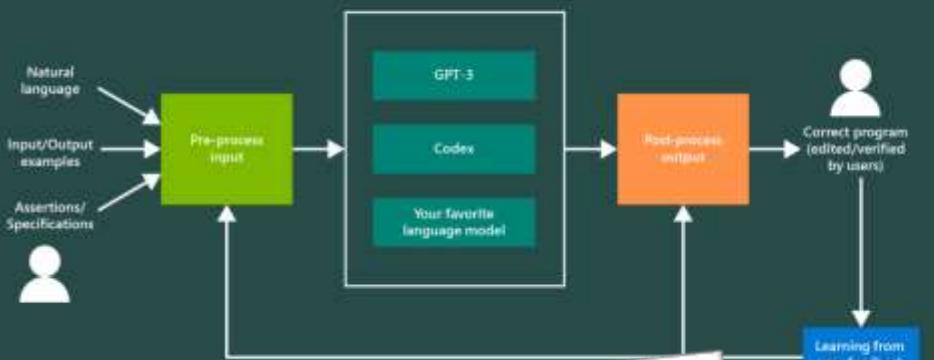


Microsoft Cloud for Nonprofit

Create scalable and transformative impact.

[Learn more >](#)

Microsoft Research Blog



Jigsaw fixes bugs in machine-written software >

March 31, 2022

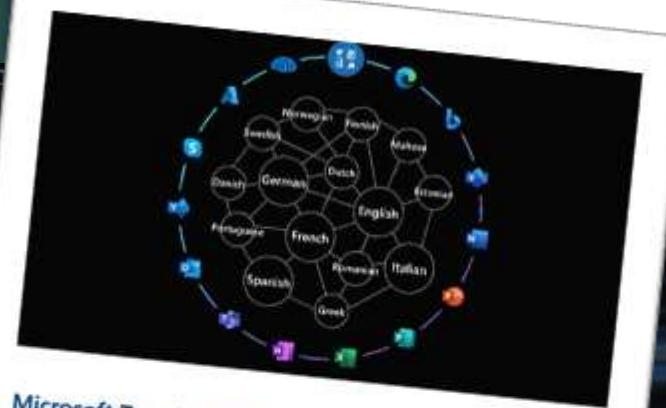
Large pre-trained language models such as GPT-3, Codex, and others can be tuned to generate code from natural language specifications of programmer intent. Such automated models have the potential to improve productivity for every programmer in the world. But since the models can struggle to...



Powering the next generation of trustworthy AI in a confidential cloud using NVIDIA GPUs >

Cloud computing is powering a new age of data and AI by democratizing access to scalable compute, storage, and networking infrastructure and services. Thanks to the cloud, organizations can now collect data at an unprecedented scale and use it to train complex models and generate...

March 22, 2022



Microsoft Translator enhanced with Z-code Mixture of Experts models >

Translator, a Microsoft Azure Cognitive Service, is adopting Z-code Mixture of Experts models, a breakthrough AI technology that significantly improves the quality of production translation models. As a component of Microsoft's larger XYZ-code initiative to combine AI models for text, vision, audio, and language, Z-code...

March 22, 2022 by [Hany Hassan Awadalla](#), [Krishna Doss](#), [Mohan](#), and [Vishal Chowdhary](#)



PeopleLens: Using AI to support social interaction between children who are blind and their peers >

The PeopleLens is a new research technology designed to help people who are blind or have low vision better understand their immediate social environments by locating and identifying people in the space. Coupled with a scheme of work based on research and practices from psychology...

March 14, 2022 by [Cecily Morrison](#), [Katherine Jones](#), [Martin Grayson](#), and [Ed Cutrell](#)



Microsoft Quantum

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

What is quantum computing?
It's the use of quantum mechanics to run calculations on specialized hardware.

Microsoft Quantum Development

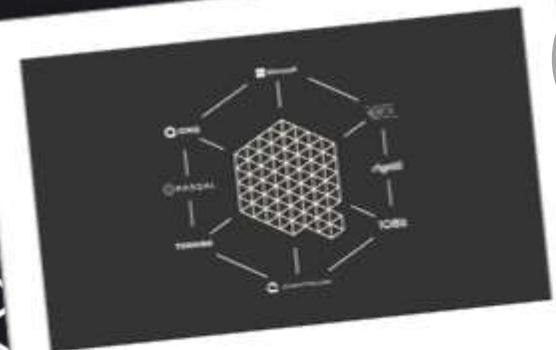
- Build Scalable Topological Qubits : New physics discovery
- Testing Large Quantum Algorithms using Sparse Simulation
- Q# Lambda Expressions :: Introduced
- Implementing DevOps for Quantum Applications
- Azure Quantum Documentation :: Public Preview
- Learn Quantum with "Quantum Katas" :: Self-paced tutorials
- Quickstart – Submit a circuit with Cirq using Azure Quantum Notebook
- Write and Simulate Qubit-Level programs in Q#
- Azure Quantum Network :: Community of Quantum Leaders
- Quantum Development Kit
- Building the Azure Quantum Machine



Microsoft has demonstrated the underlying physics required to create a new kind of qubit >

Quantum computing promises to help us solve some of humanity's greatest challenges. Yet as an industry, we are still in the early days of discovering what's possible. Today's quantum computers are enabling researchers to do interesting work. However, these researchers often find themselves limited by...

March 14, 2022 by [Dr. Chetan Nayak](#)



Explore Azure Quantum's diverse and growing hardware portfolio for free >

March 21, 2022 • 4 min read



By [Fabrice Frachon](#), Principal PM Manager, Azure Quantum

Azure Quantum is a platform for innovation. There's no better place to experiment and unlock innovation today and prepare the quantum solutions of tomorrow. Last week, we shared the exciting news that we've demonstrated a significant and foundational milestone towards realizing a topological qubit on the path to a scalable quantum machine. And while we're in the... [Read more](#)

Showcase of the Month



Microsoft Showcase Series



Apr 5, 2022 | Sean MacDonald

Windows 11 boosts employee engagement at Microsoft

The importance of employee engagement can't be overstated. In the wake of the pandemic, the world saw an unprecedented shift in employee behavior and loyalty resulting in a record number of people leaving their jobs. Initially coined as "The Great Resignation" or "Big Quit," these voluntary resignations were first believed to be a result of...

Mar 8, 2022 | Danni White

Using Microsoft Azure AD entitlement management to empower Microsoft employees and protect the company

Microsoft is leveraging identity governance capabilities in Microsoft Azure AD entitlement management (EM) service to give its employees access to the files and resources they need to do their jobs while preventing them from accessing information they shouldn't see. Until recently, those kinds of protections had to be implemented by hand for each individual work...

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.

Mar 14, 2022 | Keshav Puttaswamy

Five ways Microsoft Teams has transformed Microsoft

Wow, what a five years it's been for Microsoft Teams! When Microsoft Teams was first introduced in late 2016, no one could have anticipated the journey that we—Microsoft's customer zero—would go on over such a short amount of time. The "new chat-based workspace in Office 365" promised an entirely new experience that would bring people,...

2021 progress

Carbon	Water	Waste	Ecosystems
\$571M Annual CO ₂ emissions to date up our Climate Innovation Fund to accelerate our climate goals, as well as water and waste. We also invested \$100 million in breakthrough-energy startup initiatives.	2.5M tons In FY21 and FY22, Microsoft successfully eliminated 2.5 million metric tons of greenhouse gases from our corporate fleet year-over-year.	1.3M m³ In FY22, Microsoft completed its largest wastewater project that was assessed to generate over 1.3 million cubic meters of incremental benefit.	Circular Centers We have opened three Circular Centers, in Atlanta, Newark, and Boston, and three more are set to open in 2023.
5.8 GW In FY22, we signed new power purchase agreements (PPAs) for approximately 5.8 gigawatts (GW) of renewable energy across 10 countries around the globe.	670M liters Our programs with Water.org achieve the equivalent of 670 million liters of clean water for communities around the globe per year.	>15,200 tons In FY22, we diverted more than 15,200 metric tons of solid waste otherwise headed to landfills and incinerators.	>17,000 acres In FY22, we increased our land area under circular economy projects to 17,000 acres of land.
87% Supplier reporting In FY22, 87% of our top 100 suppliers reported their emissions to CDP, up 10% from 2020.	>95K people Through our community-wide sharing program, Water.org provided more than 95,000 people with access to safe water and sanitation.	Zero Weeks Our customers can now receive certified 100% solar modules for the last Atoms, Weeks and Quarks.	>500 users The Microsoft Computer Vision provider received an update in April 2022, with more than 500 users signed up and using the API and academic compute.
Microsoft Cloud for Sustainability In July 2022, we launched the Microsoft Cloud for Sustainability to provide customers with integrated, simplified, and automated sustainability management.	U.S. Water Prices Since the inception in 2011, our U.S. Water Prices for the Cloud have evolved from \$100/m ³ to support live pricing now available to 100+ organizations working in 70 countries around the world, granting more than \$20 million in direct credits.	18% reduction We reduced single-use plastic use in Microsoft product packaging by 18 percent.	850+ grants Since the inception in 2011, our U.S. Water Prices for the Cloud have evolved from \$100/m ³ to support live pricing now available to 100+ organizations working in 70 countries around the world, granting more than \$20 million in direct credits.

View the 2021 report >

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.

Creating accessible content with Microsoft accessibility solutions



[See all 4 sessions >](#)

Create Your First Chat Bot with Microsoft Virtual Agents



[See all 3 sessions >](#)



Minecraft 2022 Spring Festival Virtual Egg Hunt and Build Challenge...



[See all 3 sessions >](#)



Get Started with Power BI service



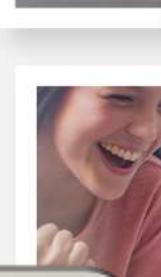
[See all 5 sessions >](#)



Work less, do more with Power Automate



[See all 3 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

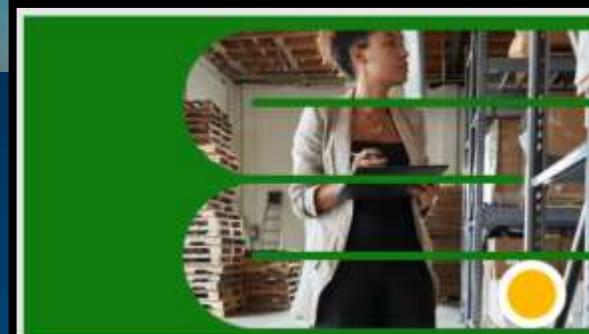


Microsoft Build

May 24-26, 2022

Microsoft Build is where developers, architects, start-ups, and students learn, connect, and code together, sharing knowledge and expanding their skillset, while exploring new ways of innovating for tomorrow.

[Watch on demand >](#)



Business Professionals

Microsoft Security Summit

Thursday, May 12, 2022 | 9:00 AM - 12:00 PM Pacific Time

Join other cybersecurity professionals at the Microsoft Security Summit digital event on May 12. Hear exciting product announcements and discover solutions you can use to lay the foundation for a safer and more innovative future.

[Register now >](#)

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 Security Virtual Training Day: Protect Data and Manage Risk

5/12/2022 9:00 AM (PST)

[Register Now >](#)

Microsoft Security Virtual Training Day: Security, Compliance, and Identity Fundamentals

4/13/2022 10:00 AM (PST)

[Register Now >](#)

Microsoft Azure Virtual Training Day: Implementing Hybrid Infrastructure

4/21/2022 8:00 AM (PST)

[Register Now >](#)

Microsoft Azure Virtual Training Day: Linux OSS Database Migration

5/13/2022 9:00 AM (PST)

[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



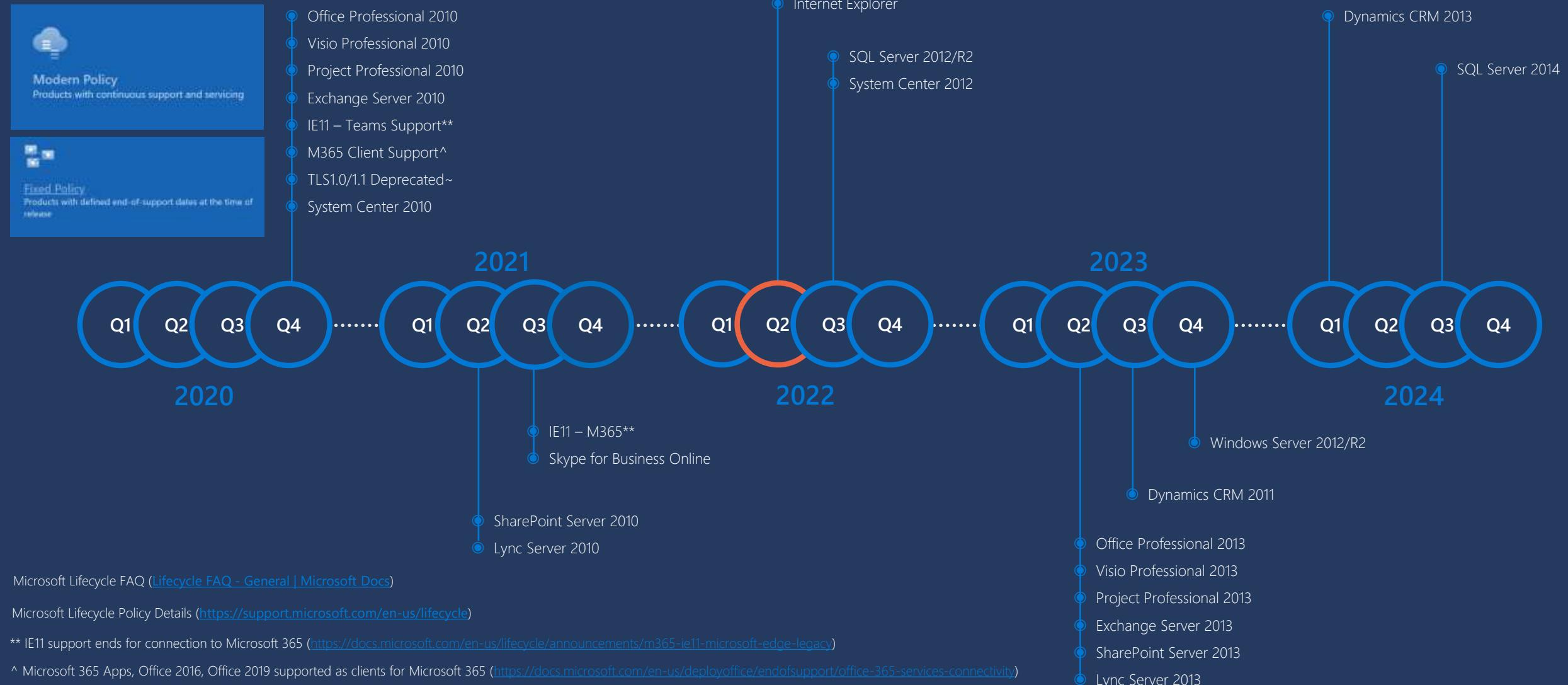
Login not working? Your organization may need to be onboarded to ESI. Please talk to your Microsoft Account Team.

Product Lifecycles

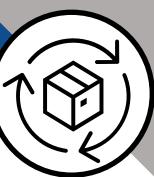




End of Service Roadmap to 2024



Microsoft Product Lifecycle: Modern Policy Products that will Retire



Products under Modern Policy that will Retire in 2022

Products that will Retire in 2022 (Modern Policy)	End of Support Date
Dynamics 365 for Talent	February 2, 2022
Dynamics 365 Field Service (on-premises)	June 30, 2022
Microsoft Machine Learning Server (Microsoft R Server)	July 1, 2022
Windows Server	August 9, 2022

Products under Modern Policy that will Retire in 2023

Products that will Retire in 2023 (Modern Policy)	End of Support Date
Microsoft Azure Virtual Machine (classic)	March 1, 2023
Windows 11 Home and Pro (Version 21H2)	October 10, 2023

Lifecycle data export

Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

Announcements

- 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

- UPDATED: Support extended for Visio Services in SharePoint Online (aka Visio Web Access)
- Windows 10, version 2004 end of servicing (all editions)
- Windows Server, version 2004 end of servicing (Datacenter, Standard)
- Microsoft Store for Business and Education retiring in early 2023
- New options for SQL Server 2012 and Windows Server 2012 End of Support

[See more >](#)

Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



Products Release End of Servicing for 2022

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

Products Release End of Servicing for 2023

Products Moving to End of Servicing (Modern Policy)	End of Servicing Date
Microsoft Endpoint Configuration Manager, Version 2107	February 2, 2023
Dynamics 365 Business Central on-premises (Modern Policy), 2021 release wave 2, version 19.x	April 12, 2023
Windows 10 Enterprise and Education, Version 20H2 Windows 10 IoT Enterprise, Version 20H2	May 9, 2023
Windows 10 Home and Pro, Version 21H2	June 13, 2023
Azure Dev Spaces	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
Visual Studio LightSwitch 2011 Windows 7, Extended Security Update Year 2* Windows Server 2008, Extended Security Update Year 2 Windows Server 2008 R2, Extended Security Update Year 2	January 11, 2022	Microsoft Forefront Identity Manager 2010 Microsoft Forefront Identity Manager 2010 R2 SQL Server 2016, Service Pack 2 Visual Studio 2019, Version 16.9 Windows Embedded POSReady 7, Extended Security Update Year 1* Windows Embedded Standard 7, Extended Security Update Year 2*	October 11, 2022
AppFabric 1.1 for Windows Server Dynamics AX 2009 Dynamics AX 2012 Dynamics AX 2012 R2 Visual Studio 2019, Version 16.7	April 12, 2022	Azure StorSimple 1200 Series Azure StorSimple 8000 Series StorSimple Data Manager	December 31, 2022
Microsoft .NET Framework, .NET Framework 4.5.2 Microsoft .NET Framework, .NET Framework 4.6 Microsoft .NET Framework, .NET Framework 4.6.1	April 26, 2022		
Internet Explorer 11 on Windows 10	June 14, 2022		
Cloud Platform System Microsoft Report Viewer Redistributable 2012 Microsoft SQL Server 2008, Extended Security Update Year 3 Microsoft SQL Server 2008 R2, Extended Security Update Year 3 Microsoft SQL Server 2012 Microsoft System Center 2012 App Controller Microsoft System Center 2012 Configuration Manager Microsoft System Center 2012 Data Protection Manager Microsoft System Center 2012 Endpoint Protection Microsoft System Center 2012 Operations Manager Microsoft System Center 2012 Orchestrator Microsoft System Center 2012 R2 App Controller Microsoft System Center 2012 R2 Configuration Manager Microsoft System Center 2012 R2 Data Protection Manager Microsoft System Center 2012 R2 Endpoint Protection Microsoft System Center 2012 R2 Operations Manager Microsoft System Center 2012 R2 Orchestrator Microsoft System Center 2012 R2 Service Manager Microsoft System Center 2012 R2 Virtual Machine Manager Microsoft System Center 2012 Service Manager Microsoft System Center 2012 Virtual Machine Manager Windows Azure Pack (on Windows Server 2012 R2)	July 12, 2022		

Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



Products Reaching End of Support for 2023

Products Moving to End of Support (Modern Policy)	End of Servicing Date	Products Moving to End of Support (Modern Policy)	End of Servicing Date
Dynamics AX 2012 R3 Dynamics NAV 2013 Dynamics NAV 2013 R2 Hyper-V Server 2012 Hyper-V Server 2012 R2 Internet Information Services (IIS), IIS 8.5 on Windows 8.1 Microsoft Diagnostics and Recovery Toolset 8.0 Service Bus for Windows Server User Experience Virtualization (UE-V) 1.0 Visual Studio 2012 Visual Studio Team Foundation Server 2012 Windows 7, Extended Security Update Year 3* Windows 8.1 Windows Defender For Windows 8 and 8.1 Windows Embedded 8.1 Pro Windows RT Windows Server 2008, Extended Security Update Year 3 Windows Server 2008 R2, Extended Security Update Year 3 Workflow Manager 1.0	January 10, 2023	BizTalk Server 2013 BizTalk Server 2013 R2 Dynamics 365 for Customer Engagement Apps, version 9 (on-premises update), Original Release (ver 9.0) Microsoft BitLocker Administration and Monitoring 2.0 Microsoft SQL Server 2008, Extended Security Update Year 4 (Azure only) Microsoft SQL Server 2008 R2, Extended Security Update Year 4 (Azure only) Microsoft SQL Server 2012, Extended Security Update Year 1 Visual Studio 2022 , Version 17.0 (LTSC channel) Windows Embedded 8 Standard Windows Embedded 8.1 Industry	July 11, 2023
Access 2013 Dynamics GP 2013 Dynamics GP 2013 R2 Excel 2013 Exchange Server 2013 HPC Pack 2012 HPC Pack 2012 R2 Lync 2013 Microsoft Lync Phone Edition Microsoft Lync Server 2013 Microsoft Office 2013 Microsoft OneNote 2013 Outlook 2013 PowerPoint 2013 Project 2013 Project Server 2013 Publisher 2013 SharePoint Foundation 2013 SharePoint Server 2013 Skype for Business 2015 Visio 2013 Word 2013	April 11, 2023	Excel 2019 for Mac Internet Explorer 7 Internet Information Services (IIS), IIS 8 on Windows Server 2012 Internet Information Services (IIS), IIS 8.5 on Windows Server 2012 R2 Microsoft Office 2019 for Mac Microsoft Office Audit and Control Management Server 2013 Outlook 2019 for Mac PowerPoint 2019 for Mac Windows Embedded Compact 2013 Windows Embedded POSReady 7, Extended Security Update Year 2* Windows Embedded Standard 7, Extended Security Update Year 3* Windows MultiPoint Server 2012 Windows Server 2012 Windows Server 2012 R2 Windows Server Update Services for Windows Server 2012 Windows Server Update Services for Windows Server 2012 R2 Windows Storage Server 2012 Windows Storage Server 2012 R2 Word 2019 for Mac	October 10, 2023

Microsoft Product Lifecycle: Products moving to Extended Support



Products Moving to Extended Support for 2022

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

Products Moving to Extended Support for 2023

Products Moving to Extended Support (Fixed Policy)	End of Support Date
Dynamics GP 2018	January 10, 2023
Dynamics GP 2018 R2	
Dynamics NAV 2018	
Visual Studio Team Foundation Server 2018	
Dynamics SL 2018	July 11, 2023
Access 2019	October 10, 2023
Dynamics 365 Business Central on-premises (Fixed Policy)	
Excel 2019	
Microsoft Office 2019	
OneNote 2016	
Outlook 2019	
PowerPoint 2019	
Project 2019	
Publisher 2019	
Visio 2019	
Word 2019	



Acquisitions and Announcements

Microsoft Acquisitions - 2022



Company	Date	Description
Minit	03-31-2022	Minit currently enables businesses to transform the way they analyze, monitor and optimize their processes . Minit's solutions have helped businesses gain deep insights into how processes run , uncover root causes of operational challenges and help mitigate undesired process outcomes. This acquisition will further empower Microsoft to help our customers digitally transform and drive operational excellence by creating a complete picture of their business processes, enabling every process to be easily and automatically analyzed and improved. Customers will be able to better understand their process data, uncover what operations look like in reality and drive process standardization and improvement across the entire organization to ensure compliance at every step .
Oribi	02-28-2022	Microsoft's LinkedIn will acquire Oribi , an Israel based marketing analytics company , to further help customers, from marketers to recruiters, gain actionable insights, make smarter decisions and drive business results . The integration of LinkedIn and Oribi will accelerate Microsoft's marketing attribution and codeless analytics capabilities .
Activision Blizzard	01-18-2022	Microsoft announced plans to acquire Activision Blizzard Inc. (Nasdaq: ATVI), a leader in game development and interactive entertainment content publisher. This acquisition will accelerate the growth in Microsoft's gaming business across mobile, PC, console and cloud and will provide building blocks for the metaverse . "The combination of Activision Blizzard's world-class talent and extraordinary franchises with Microsoft's technology, distribution, access to talent, ambitious vision and shared commitment to gaming and inclusion will help ensure our continued success in an increasingly competitive industry."

Microsoft Acquisitions - 2021



Company	Date	Description
Xandr	12-21-2021	Microsoft will acquire Xandr from AT&T . Xandr provides a data-enabled technology platform with tools that help power a diverse ecosystem connecting marketers and media owners through first-party, data-led advertising solutions across its network. With Xandr, Microsoft can accelerate the delivery of digital advertising solutions for the open web by combining Microsoft's audience understanding, technology and global advertising customer base with Xandr's large-scale, data-driven platforms for advertising.
Two Hat	10-29-2021	Two Hat , a leading content moderation solution provider offering protection measures for online communities. Two Hat's technology has helped to make global communities in Xbox, Minecraft and MSN safer for users.
Clear Software	10-22-2021	Clear Software provides iPaaS and business process solutions with strong connectivity into SAP and Oracle . Clear Software's API access and system knowledge will strengthen Microsoft Power Platform's integration with outside systems and accelerate how customers leverage data and processes that reside beyond Microsoft first-party services.
Ally.IO	10-07-2021	Ally.io , a leading OKR (objectives and key results) company, will join the Microsoft Viva family as part of our employee experience platform (EXP) designed to help companies embrace the new digital work life. Ally.io will power a new Microsoft Viva module . Viva is an employee experience platform that brings together communications, knowledge, learning, resources and insights – from anywhere you work. Powered by Microsoft 365 and Microsoft Teams , Viva helps organizations foster a culture of human connection, growth, well-being and success.
TakeLessons	09-08-2021	We're so excited to announce that TakeLessons has been acquired by Microsoft . We believe this will further support TakeLessons' mission: to empower people to learn, connect, grow, and live more meaningful lives through education .
Clipchamp	09-07-2021	Clipchamp is a natural fit to extend the cloud-powered productivity experiences in Microsoft 365 for individuals, families, schools, and businesses. It's also a great fit for Microsoft Windows, which is a platform for boundless creativity. Clipchamp's template-driven, task-focused user experience gives everyone the confidence that they can create. Its rich library of filters, styles, transitions, and stock media combined with the power of a multi-track audio and video compositing editor gives everyone the fine control they need, and artistic help if they need it, to create exactly what they want, quickly and with confidence .
Peer5	08-10-2021	Peer5 expands Microsoft's ability for delivering secure, high-quality, large-scale live video streaming with optimized network performance in Teams . Peer5 offers a WebRTC-based eCDN solution that runs in-browser to optimize bandwidth usage helping mitigate impacts to network and line of business (LOB) applications. Its mesh networks are self-balancing and automatically scale as the number of viewers increase.

Microsoft Acquisitions - 2021



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



Microsoft Acquisitions - 2020

Company	Date	Description
ZeniMax Media	09-21-2020	ZeniMax Media, the parent company of Bethesda Softworks , one of the largest privately held game developers and publishers in the world . Creators of critically acclaimed and best-selling gaming franchises including The Elder Scrolls, Fallout and many others , Bethesda brings an impressive portfolio of games, technology and talent — as well as a track record of blockbuster commercial success — to Xbox.
Orions Systems	07-07-2020	Orions Systems, a pioneer in the development of large-scale, hybrid, smart vision systems focused on “human-in-the-loop” machine teaching combined with services that can adapt to running on a single device or scale to address large scale edge-to-cloud network topologies . The Power Platform and Orions Systems is enabling intelligent retail spaces by leveraging observational data to unlock the full potential of customers, employees, and assets.
CyberX	06-22-2020	CyberX will complement the existing Azure IoT security capabilities and extends to existing devices including those used in industrial IoT, Operational Technology and infrastructure scenarios . With CyberX, customers can discover their existing IoT assets, and both manage and improve the security posture of those devices . CyberX, customers can see a digital map of thousands of devices across a factory floor or within a building and gather information about their asset profile and vulnerabilities,
ADRM Software	06-18-2020	ADRM Software is a leading provider of large-scale industry data models , which are used by large companies worldwide as information blueprints. ADRM's robust industry data models have been built and refined over decades for business-critical analytics. Together with Microsoft Azure, these capabilities will be delivered at scale , enabling our customers to accelerate digital progress, and reduce risk in a variety of major initiatives.
Softomotive	05-19-2020	Softomotive currently helps more than 9,000 global customers seamlessly automate business processes across legacy and modern desktop applications . Together with Power Automate, WinAutomation will provide customers additional options for RPA desktop authoring so anyone can build a bot and automate Windows-based tasks.
Metaswitch Networks	05-14-2020	Metaswitch Networks , a leading provider of virtualized network software and voice, data and communications solutions for 5G operators .
Corp.Com	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."
Affirmed Networks	03-26-2020	Affirmed Networks with its leadership in virtualized 5G mobile networks . Affirmed Networks and Microsoft will play an important role in helping advance 5G and deliver new network solutions that offer step-change advancements in speed, cost and security. This combination of technology leaders will enable a host of new opportunities for businesses and society, including autonomous vehicles, smart cities, virtual reality and a range of other smart industry use cases and services .

Microsoft Acquisitions - 2019



Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately presenting entire IT environments within a single day , providing enterprises with the confidence they need to have visibility and control of their environments regardless of platform, application or geography as organizations grow, change and digitally optimize .
Semmle	09-18-2019	Semmle's revolutionary semantic code analysis engine allows developers to write queries that identify code patterns in large codebases and search for vulnerabilities and their variants . Semmle is trusted by security teams at Uber, NASA, Microsoft, Google , and has helped find thousands of vulnerabilities in some of the largest codebases in the world , as well as over 100 CVEs in open source projects to date.
JClarity	08-19-2019	The leading contributor to the AdoptOpenJDK project , to support their continued contributions to open source while driving increased performance for Java workloads on Azure . The team, formed by Java champions and data scientists with proven expertise in data driven Java Virtual Machine (JVM) optimizations , will help teams at Microsoft to leverage advancements in the Java platform.
PromotelQ	08-05-2019	The leading provider of vendor marketing technology to online retailers and brands . PromotelQ has pioneered the private marketplace approach to digital vendor marketing. PromotelQ's technology strategically complements Microsoft's current retail advertising offerings, and can enable retailers with a portfolio of technology solutions to modernize their e-commerce platforms and maximize their monetization opportunity. Retailers such as Kroger, Kohl's and Overstock.com — will continue to benefit from the PromotelQ platform and team.
BlueTalon	07-29-2019	A leading provider of Unified Data Access Control solutions for modern data platforms . BlueTalon works with leading Fortune 100 companies to eliminate data security blind spots and gain visibility and control of data. BlueTalon provides a customer-proven, data-centric solution for data access management and auditing across the diverse systems resident in modern data estates.
PullPanda^	06-17-2019	PullPanda^ helps teams create more efficient and effective code review workflows on GitHub . Better code reviews mean better code for software teams of all sizes, whether you work in open source or on a Fortune 500 team. PullPanda^ gives teams a better way to manage reviews, reduce turnaround times, and ship code faster .
Double Fine Productions	06-09-2019	Double Fine is a beacon of creativity and spirit in game development for almost 20 years with classic games like Psychonauts, Brütal Legend and Broken Age . At the root of every game is an emphasis on creating crazy worlds with originality, story and fun. That commitment to creating a unique, player-centric experience is what drew us to the studio, and I'm looking forward to seeing what we create together.
Drawbridge Solutions	05-28-2019	LinkedIn will integrate Drawbridge's technology into our marketing solutions portfolio to help our customers better reach and understand their professional audiences and measure the ROI of their campaigns.
Dependabot	05-23-2019	Dependabot is integrated directly into GitHub and will monitor your dependencies for known security vulnerabilities and automatically open pull requests to update them to the minimum required version. We are rolling out automated pull requests to all accounts with security alerts enabled along with other enhancements in the coming months.



Microsoft Acquisitions – 2019 & late 2018

Company	Date	Description
Express Logic	04-18-2019	a leader in real time operating systems (RTOS) for IoT and edge devices powered by microcontroller units (MCUs) . Express Logic's ThreadX RTOS has over 6.2 billion deployments, making it one of the most deployed RTOS in the world per VDC Research . This widespread popularity is driven by demand for technology to support resource constrained environments, especially those that require safety and security.
DataSense	02-04-2019	The integration of DataSense into Microsoft's suite of products, we will help educational institutions – and school and district IT leaders in particular – better collect, manage and explicitly control access to their data within Azure to help drive the best possible learning outcomes for their students. Read more at https://educationblog.microsoft.com/en-us/2019/02/introducing-datasense-to-microsoft-educations-family-of-products/#E6CKQEBUjS35TOH4.99
Citus Data	01-24-2019	a leader in the PostgreSQL community. Citus is an innovative open source extension to PostgreSQL that transforms PostgreSQL into a distributed database, dramatically increasing performance and scale for application developers . Because Citus is an extension to open source PostgreSQL, it gives enterprises the performance advantages of a horizontally scalable database while staying current with all the latest innovations in PostgreSQL . Citus is available as a fully-managed database as a service, as enterprise software, and as a free open source download.
FSLogix	11-19-2018	FSLogix is a next-generation app-provisioning platform that reduces the resources, time and labor required to support virtualization . From small businesses to very large global enterprises across numerous industries, FSLogix solutions enhance customer experience and productivity, while reducing support requirements for IT departments.
XOXCO	11-14-2018	A software product design and development studio known for its conversational AI and bot development capabilities . The company has been paving the way in conversational AI since 2013 and was responsible for the creation of Howdy , the first commercially available bot for Slack that helps schedule meetings, and Botkit, which provides the development tools used by hundreds of thousands of developers on GitHub . Over the years, we have partnered with XOXCO and have been inspired by this work.
Obsidian	11-10-2018	The studio quickly made a name for itself with the Xbox exclusive Star Wars: Knights of the Old Republic II: The Sith Lords . Over the last fifteen years, they have delivered genre-defining RPGs to players on both console and PC through titles including <i>Fallout: New Vegas</i> , <i>South Park: The Stick of Truth</i> , and <i>Pillars of Eternity</i> . Read more at https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99
InXile	11-10-2018	Like Obsidian, InXile excels at creating vast worlds for players to explore with titles such as Wasteland 2, Torment: Tides of Numenera, Bard's Tale IV and the upcoming Wasteland 3 . Read more at https://news.xbox.com/en-us/2018/11/10/obsidian-inxile-join-microsoft-studios/#P4ARqRq505qOpmfU.99
Lobe	09-13-2018	Lobe makes deep learning simple, understandable and accessible to everyone. Lobe's simple visual interface empowers anyone to develop and apply deep learning and AI models quickly, without writing code .



Thank YOU!