



Microsoft

# *Monthly Technical Update*

## October 2021

# 111

**Abbas Kudrati**

APAC Chief Cybersecurity Advisor

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<https://aka.ms/abbas>



- [Microsoft Ignite Registration](#)
- [Windows 11 Launch – October 5](#)
- [New Surface Devices +](#)
- [Microsoft Official Blog](#)



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](#)
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Security and Compliance

- [Microsoft IT Showcase](#)
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Showcase of the month

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



Microsoft 365 update information



Product Lifecycles

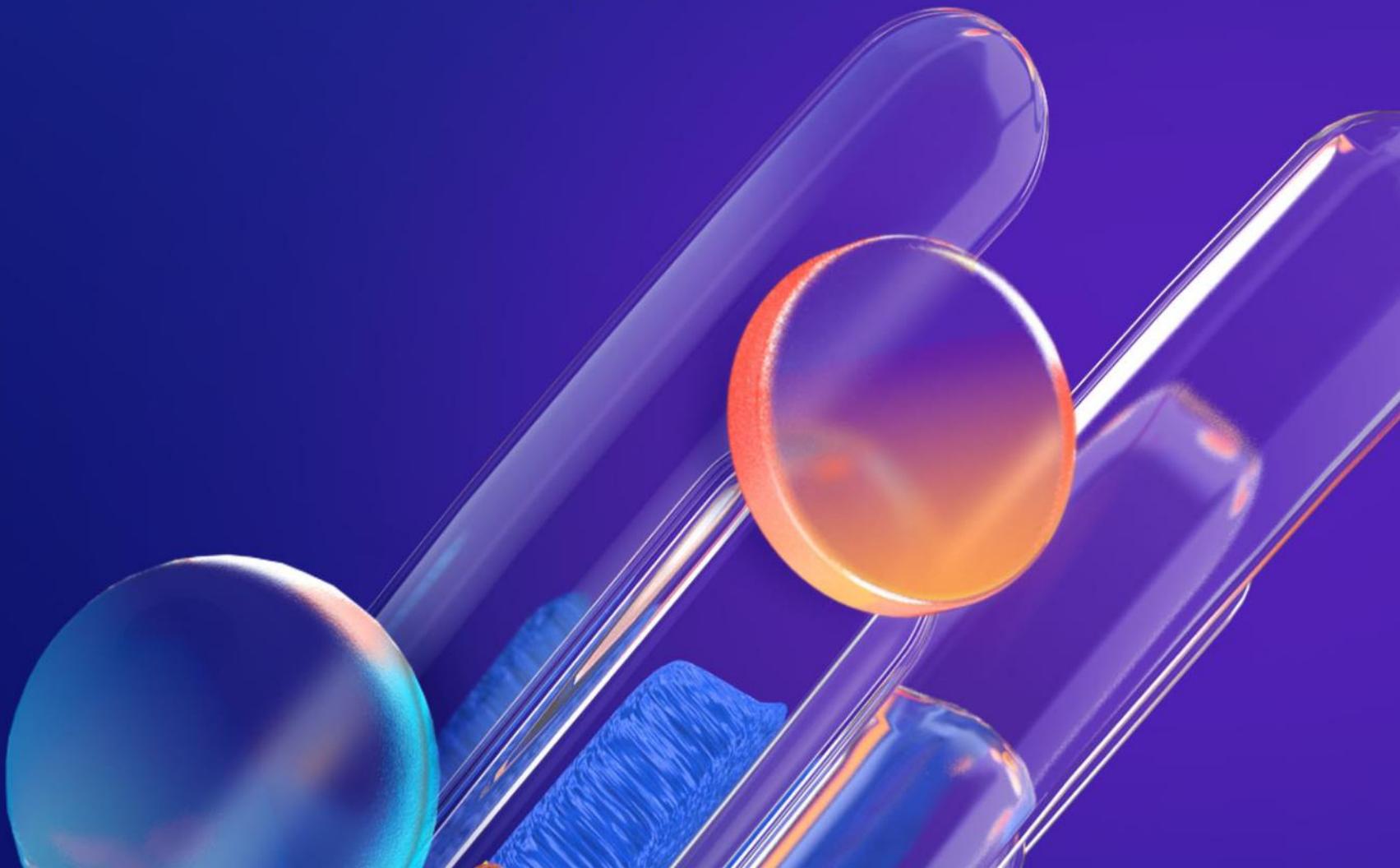


Acquisitions and Announcements

- [Products Reaching End of Support in 2021 and 2022](#)
- [Companies and Technologies Acquired Since 2018](#)

# Microsoft Ignite

November 2–4, 2021 | Digital event



# Welcome



To begin the registration process  
**“Sign in”** below.

[Sign in](#)

# Introducing Windows 11



Built for Gaming



Empower your Hybrid Workforce



Security from Chip to Cloud with Windows 11



How to get Windows 11



11 Things to know about Windows 11



## **Get up-to-date and ready**

Get ready to move to Windows 11 by checking that your Windows 10 PCs are compatible.

[Learn more >](#)



## **Prepare for deployment**

Windows 10 apps will be compatible, backed by App Assure<sup>1</sup>. Test critical apps and policies using a preview with Microsoft Insider Program.

[Learn more >](#)



## **Evaluate infrastructure and tools**

Learn about your existing deployment tools that will help make Windows 11 deployment easy.

[Learn more >](#)

# Microsoft “What’s Next” Event



New



Surface Pro 8

New



Surface Laptop Studio

See What's Updated



Surface Pro X

New



Surface Go 3

New



Microsoft  
Ocean Plastic Mouse

New



Surface Duo 2

# Updates of Security and Compliance



# Certificate change: Azure IoT and Device Provisioning Service (DPS)

Install DigiCert Global G2 certificate to avoid disruption of connectivity



## Change in Certificate chain for Azure IoT and DPS

**When:** by October 2022

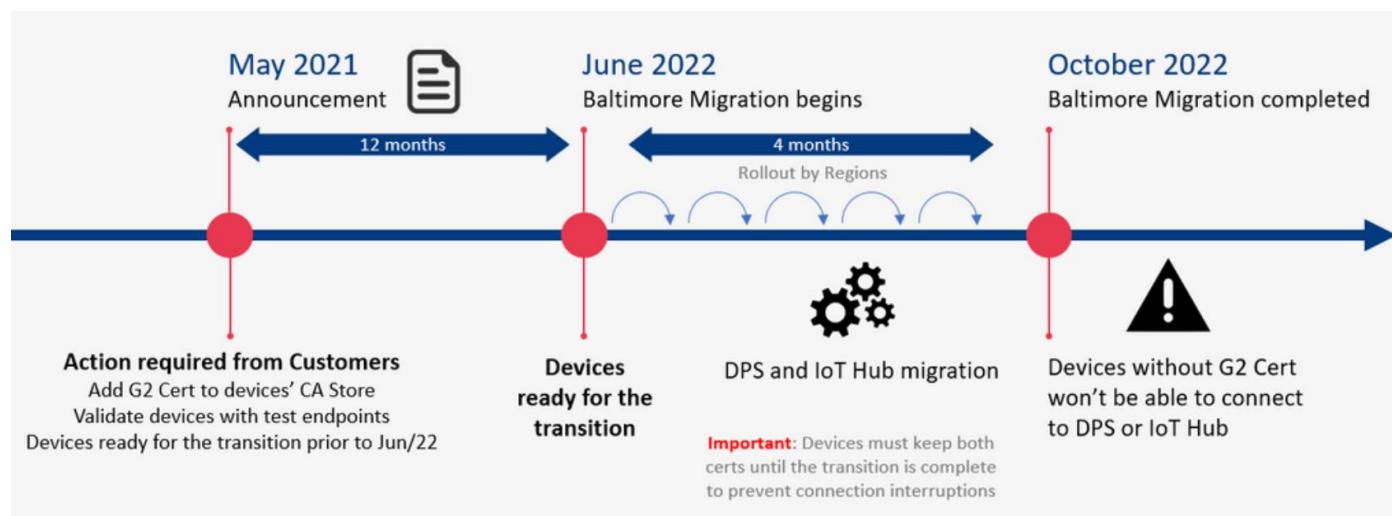
**Impact:** disruption of connectivity to Azure IoT and DPS if not on DigiCert Global G2 certificate

**Why:** Certificate Root Chain will be migrated from Baltimore CyberTrust to DigiCert Global G2

**Reason:** Most Azure services are already updated to use the DigiCert Global G2 root.  
Azure IoT Hub and Device Provisioning Service (DPS) remained on TLS certificates issued by the Baltimore CyberTrust Root but now need to be migrated, too.

**Action:** Add the DigiCert Global root G2 to your trusted root store.

Do not delete the Baltimore root till after transition (~Nov 2022) to prevent interruption.



### How do I know I'm impacted?

If

- your devices use a connection stack other than the ones provided in an Azure IoT SDK
- your client applications, devices, or networking infrastructure (e.g. firewalls) perform any sub root validation in code



More information and Support options

# Microsoft Security Blog

October 11, 2021

## How cyberattacks are changing according to new Microsoft Digital Defense Report

Get the latest expert insights on human-operated ransomware, phishing attacks, malware, and more to get ahead of these threats before they begin.

[Read more >](#)

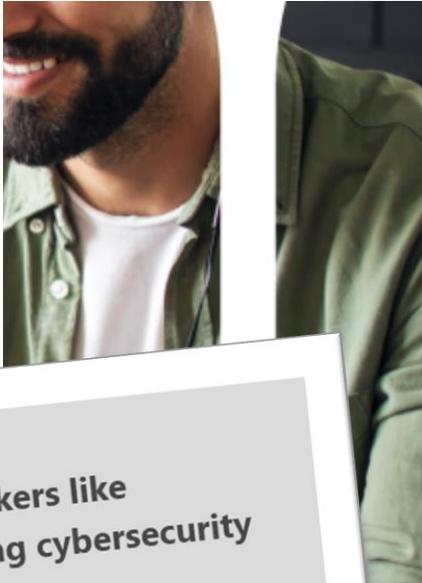


October 6, 2021

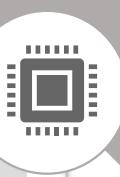
### Microsoft's 5 guiding principles for decentralized identities

Microsoft is excited about the opportunity to create a decentralized identity system that increases customer trust and adoption by minimizing data processing and providing the user much greater control of the specific identity data they share and how it will be used.

[Read more >](#)



Microsoft Security Response Center



September 28, 2021

### How nation-state attackers like NOBELIUM are changing cybersecurity

In the first of a four-part series on the NOBELIUM nation-state attack, we describe the attack and explain why enterprises should be cautious.

[Read more >](#)

October 5, 2021

### Practical tips on how to use application security testing and testing standards

Banco Santander Global Head of Security Research Daniel Cuthbert talks with Microsoft about how to use application security testing and testing standards to increase application security.

[Read more >](#)

### Additional Guidance Regarding OMI Vulnerabilities within Azure VM Management Extensions

MSRC / By MSRC Team / September 16, 2021

Last updated on October 5, 2021: See revision history located at the end of the post for changes. On September 14, 2021, Microsoft released fixes for three Elevation of Privilege (EoP) vulnerabilities and one unauthenticated Remote Code Execution (RCE) vulnerability in the Open Management Infrastructure (OMI) framework: CVE-2021-38645, CVE-2021-38649, CVE-2021-38648, and CVE-2021-38647, respectively. Open Management Infrastructure (OMI) is an open-source Web-Based Enterprise Management (WBEM) ...

[Read More »](#)

September 27, 2021

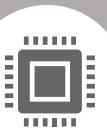
### A guide to combatting human-operated ransomware: Part 2

In this post, we will tackle the risks of human-operated ransomware and detail DART's security recommendations for tactical containment actions and post-incident activities in the event of an attack.

[Read more >](#)

# Monitoring Global Threats: Microsoft

# Microsoft Security Response Center



Select a region ▾

## Global threat activity

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



September 15, 2021

## Analyzing attacks that exploit the CVE-2021-40444 MSHTML vulnerability

This blog details our in-depth analysis of the attacks that used the CVE-2021-40444, provides detection details and investigation guidance for Microsoft 365 Defender customers, and lists mitigation steps for hardening networks against this and similar attacks.

October 11, 2021

### **Iran-linked DEV-0343 targeting defense, GIS, and maritime sectors**

MSTIC has observed DEV-0343 conducting extensive password spraying against more than 250 Office 365 tenants, with a focus on United States and Israeli defense technology companies, Persian Gulf ports of entry, or global maritime transportation companies with business presence in the Middle East.

September 27, 2021

## FoggyWeb: Targeted NOBELIUM malware leads to persistent backdoor

In-depth analysis of newly detected NOBELIUM malware: a post-exploitation backdoor that Microsoft Threat Intelligence Center (MSTIC) refers to as FoggyWeb. NOBELIUM uses FoggyWeb to remotely exfiltrate the configuration database of compromised AD FS servers, decrypted token-signing certificate, and token-decryption certificate, as well as to download and execute additional components.

September 21, 2021

## Catching the big fish: Analyzing a large-scale phishing-as-a-service operation

With over 100 available phishing templates that mimic known brands and services, the BulletProofLink operation is responsible for many of the phishing campaigns that impact enterprises today. We are sharing these findings so the broader community can build on them and use them to enhance email filtering rules as well as threat detection technologies like sandboxes to better catch these threats.



# Updating and Implementing Zero Trust at Microsoft

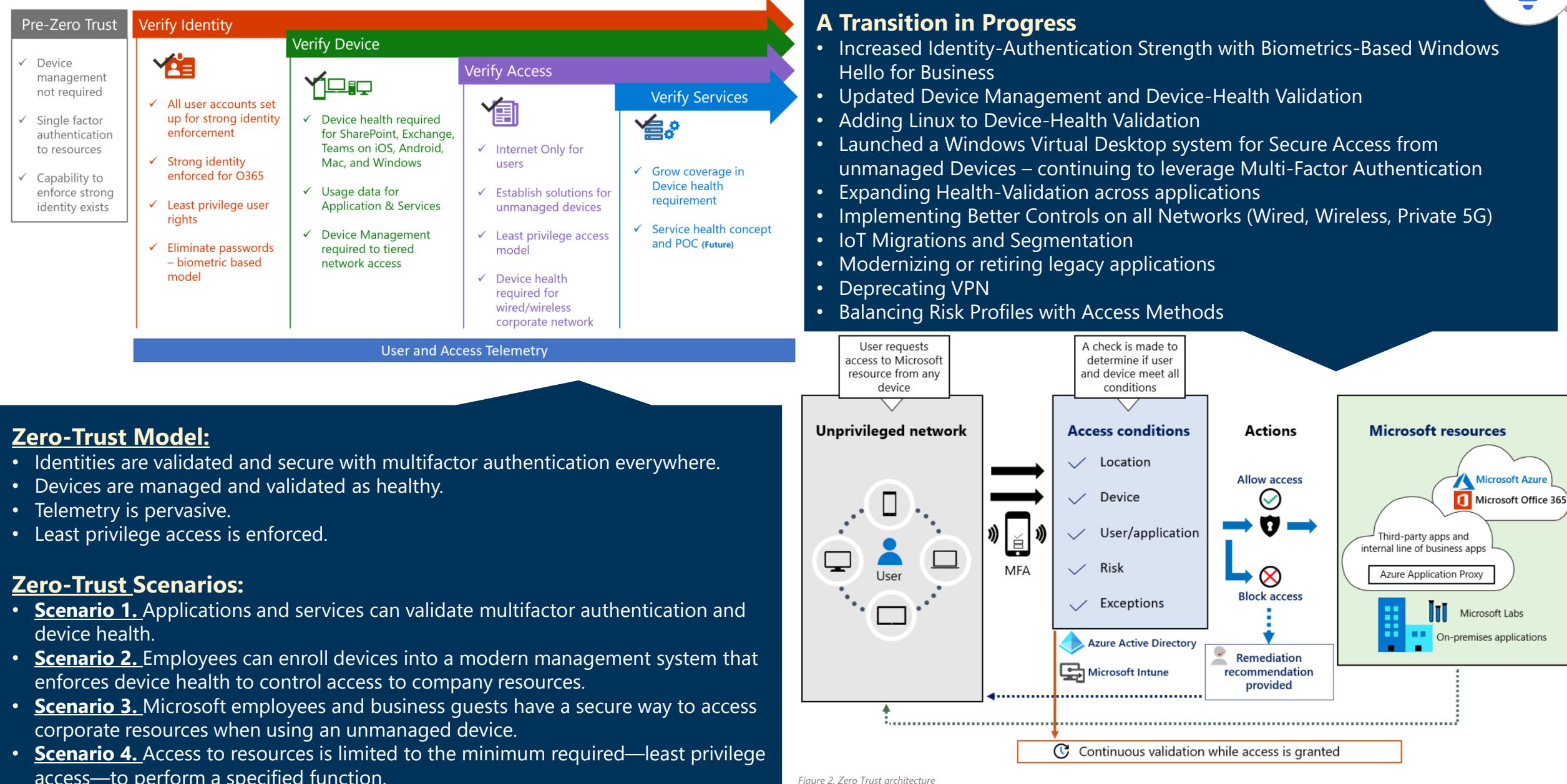
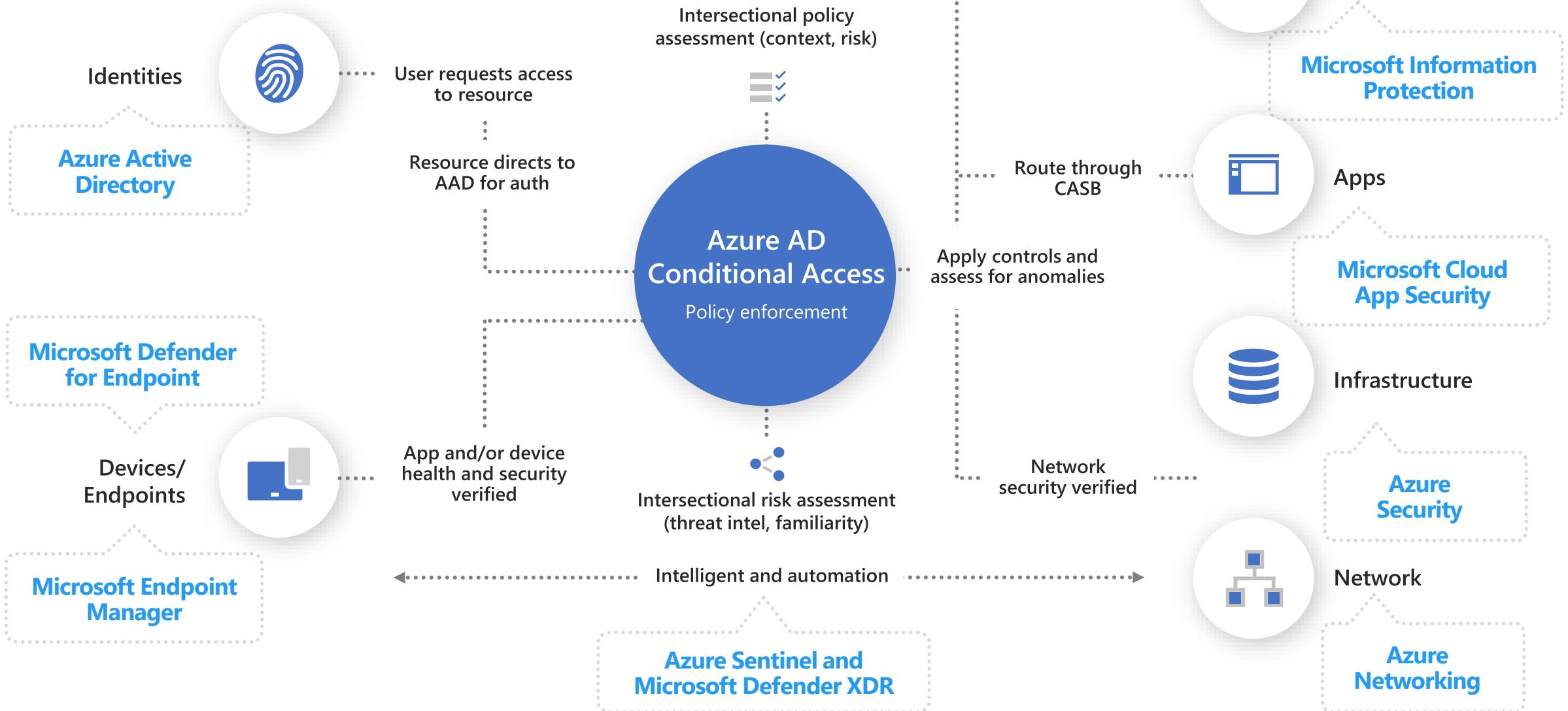


Figure 2. Zero Trust architecture

# Microsoft's Zero Trust enabling technologies





# Microsoft 365 update information

# Microsoft Teams Blog:



What's New in Microsoft Teams | September 2021

## What's New in Microsoft Teams | September 2021

Microsoft\_Teams\_team on Sep 30 2021 03:00 AM

Welcome to the September edition of What's new in Microsoft Teams – the monthly post where we keep you updated on all th...

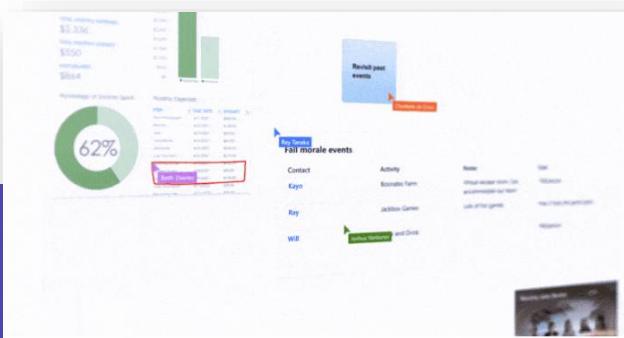


### New for This Month

- [Present directly from PowerPoint into Teams](#)
- [Teams meetings now available on Apple CarPlay](#)
- [New assignment experience in a separate window for Breakout Rooms](#)
- [2x2 video in Gallery view for web meetings Safari](#)
- [Restart Live Event – after you have ended it](#)
- [Peer5 eCDN support for Teams Live Events](#)
- [Scale Teams Live Events to 100,000 attendees](#)
- [Dynamic view on single and dual displays](#)
- [Spotlight multiple participants in a meeting](#)
- [Chat bubbles notifications](#)

### Devices:

- [Surface Hub update for Teams Rooms](#)
- [Logitech Zone wired earbuds](#)
- [Shure Intellimix Room software with Crestron Flex](#)
- [Logitech Rally Bar mini with Tap Controller](#)



## Meet Microsoft Teams Rooms on Surface Hub

Christian Schacht on Sep 30 2021 03:00 AM

Today, we started to rollout our next generation of the Microsoft Teams experience for Surface Hub, Teams Rooms on Surfa...

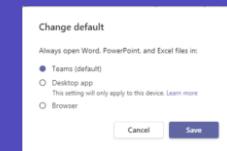


### Meeting Experience

- [Update for Microsoft Teams Rooms on Windows](#)
- [New large meeting controls support](#)
- [Lock meeting from Teams Rooms device](#)

### Chat and Collaboration:

- [Share Feedback in mobile app](#)
- [Pin a message](#)
- [Reply to a specific message – original is quoted and copied into the reply](#)
- [New default settings when opening Office documents in Microsoft Teams](#)
- [Power Automate templates to be added to Teams templates](#)



## Introducing Chat from Microsoft Teams on Windows 11, for...

Microsoft\_Teams\_team on Oct 04 2021 01:00 PM

Starting on October 5th, all Windows 11 users can start using Chat from Microsoft Teams on Windows. It is a signature, I...



### Developers and Management

- [Updated navigation in Teams Admin Center](#)
- [Operator Connect – Generally Available](#)

### For Security, Compliance, Privacy

- [Admin Center Analytics and Reporting](#)
- [Simplified External access management controls in Teams Admin Center](#)
- [Logging updates and connectors](#)

### Salesforce for Microsoft Teams

- [Salesforce for Teams App : Generally Available](#)





# What's New in Microsoft 365

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

## Microsoft 365 Updates:

- [Office has a fresh look](#)
- [Office Long Term Servicing Channel : Generally Available](#)
- [New Microsoft Whiteboard](#)
- [Presenter \(Speaker\) Coach expands to Microsoft Teams](#)
- [Built-in translator feature in Outlook – more languages](#)
- [Application Guard supports saving files in alternate formats](#)
- [Better Collaboration with modern comments – easy @mentions](#)
- [Improved Scrolling for Excel](#)
- [Track only your changes in your documents](#)
- [Add Flipgrid video to your next presentation](#)
- [Set "Do-Not-Disturb" in Outlook during Events](#)

What's new in your favorite Office app



ONEDRIVE

SEPTEMBER 16, 2021

## Office LTSC is now generally available >

When we look to the future of work, it's clear it will be built on and powered by the cloud. Microsoft is leading innovations that enable our customers to empower their people to work more collaboratively, effectively, and securely.



SEP 24, 2021  
BY ALEX YANG

## Find stock and Wolfram data types using Search

**Feature deep dive**

Find and insert real-time stock quotes and Wolfram data types in your Excel worksheets using Microsoft Search.

SEP 20, 2021  
BY EMILY TRAN

## New natural-sounding voices come to Read Aloud

**Feedback in action**

We've upgraded the Read Aloud feature in Word and Outlook for Windows with new, more natural-sounding voices.

OCT 12, 2021  
BY KIMBERLEY CHUA

## Track Changes improvements in Word for the web

**Feature deep dive**

We've improved the Track Changes feature in Word for the web, so you can preview what the change will do to your text before accepting or rejecting it.

OCT 11, 2021  
BY JOHN TEICHMAN

## Do more with modern comments in PowerPoint

**Feature deep dive**

Do more with modern comments, and check out two ways to create and use comments in PowerPoint: text anchors and comment bubbles.



# Microsoft Speaker Coach

Available now in PowerPoint (Slide Show > Rehearse with coach)  
Available in Microsoft Teams in early 2022

**Your Rehearsal Report**

**Summary**  
Good job rehearsing! Keep up the hard work.

**9:50** total time spent    **12** slides rehearsed

**Fillers**  
Fantastic! You didn't say too many filler words in your speech!

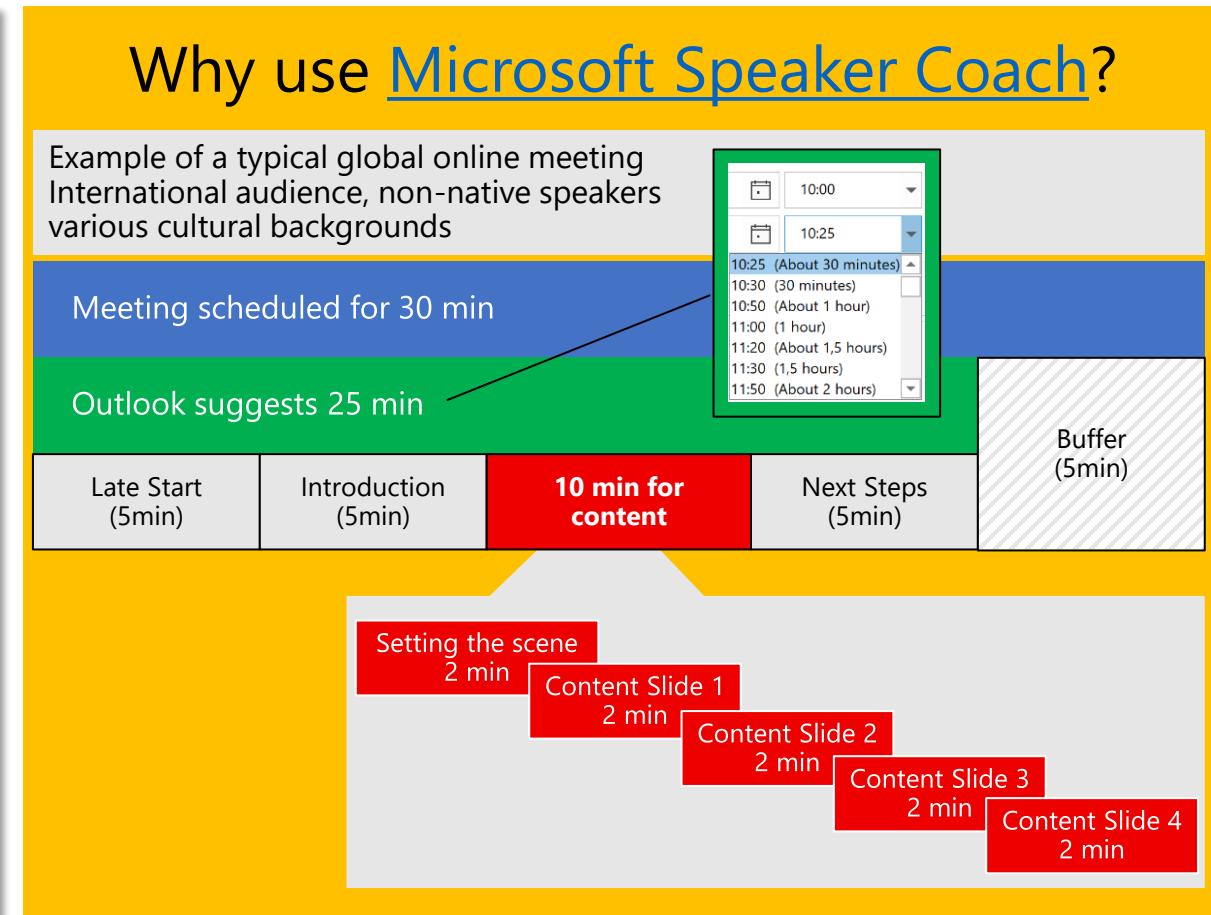
**Sensitive Phrases**  
No sensitive phrases found. Great job using inclusive speech.

**Repetitive Language**  
Nice work! Your variety of word choice will help keep your audience engaged.

**Pronunciation** BETA  
Based on General American English.  
We heard a few words from your speech that may need more practice:  
**extraordinary** ex-traor-di-nar-y ▶  ⓘ  
**Practice**

**Body Language** NEW  
Suggestions for a more engaging presentation:  
**Eye contact**  
Keep your gaze forward  
Facing away  Good  
  
**Distance**  
Keep a consistent distance from your camera  
**Clear view**  
Keep the view of your face clear

**Rehearse Again**



# Power Platform and Dynamics

Roadmaps and Release plans:



Create a sense of purpose with hyper-personalized experiences >

October 11, 2021

By [Shruti Shukla](#), Group Product Marketing Manager, Business Apps and Global Industries

Volunteers and donors are the lifeblood of the non-profit world. Their contribution is often immeasurable, with life-changing impact to the individuals and communities they help. Although they should be treated the same way as a valued customer, in reality, they encounter less than inspiring experiences. The moment they opt-in, or donate time or money, they...[Read more](#)

Download the training module for Field Service (Dynamics 365) mobile app >

September 7, 2021

By [David Clarke](#), Program Manager

Download Field Service mobile app in a day training to learn how to set up, use, and configure the Dynamics 365 Field Service mobile app. ...[Read more](#)



Customer journey orchestration: The next frontier of connected experiences >

September 20, 2021

By [Shruti Shukla](#), Group Product Marketing Manager, Business Apps and Global Industries

A decade ago, marketing was focused on guiding the customer through predictable stages of awareness, consideration, and purchase. We were relatively assured that if we reached x number of eyeballs, we could expect y number of responses and z number of conversions. That world no longer exists. Eighty-one percent of consumers1 want to purchase from...[Read more](#)



Create a task in Planner based on Office 365 Outlook calendar event

By Microsoft Power Automate Community



Notify a channel when the status of a task in Planner updates

By Microsoft



Send form responses for approval

By Microsoft

## Power BI Blog

- [Power BI Desktop Installer and WebView2](#) : Changes and Updates
- [New Authentication option](#) – facilitates AAS migrations
- [Power BI Unused Artifacts API](#) : Preview
- [Security Group Support for Log Analytics Integration](#) : Preview
- [New Admin API for determining "who has access to what"](#) : Public Preview
- [Power BI Insights](#) : Public Preview
- [Embedded Analytics Playground](#) : Updated

## PowerApps Blog: Power Automate Blog: Power Virtual Agents Blog

- [Canvas App Troubleshooting Series – Part 1](#)
- [Dataverse Search replaces Relevance search](#)
- [Permissions support in DataSourceInfo and \(new\) RecordInfo functions for Dataverse](#)
- [Western States Caterpillar](#) – fusion teams use Microsoft Power Platform to build mobile apps for field staff
- [Power Automate machine runtime](#)
- [Power Automate Desktop September 2021 update](#)
- [HEAT special: Automate It video series and playbook for managing Power Automate Desktop on Windows](#)
- [Power Virtual Agents bots as skills with Bot Framework Bots](#) : Public Preview
- [Power Virtual Agents export and import Chatbots using solutions](#) : Generally Available

# Developer and GitHub



## GitHub ChangeLog

- [GitHub security update: revoking weakly-generated SSH keys](#)
- [GitHub Advisory Database now powers npm audit](#)
- [Announcing npm's new access token format](#)
- [A new public beta of GitHub Releases: How we're improving the release experience](#)
- [GitHub Enterprise Cloud Enterprise managed users : Generally Available](#)
- [GitHub Advisory Database now supports Rust](#)
- [Revised enterprise DPA with new standard contractual clauses](#)
- [Audit log streaming : Public beta](#)

## Microsoft Developer Blogs:

- [Visual Studio 2022 Launch](#) : November 8, 2021
- [SharePoint Framework 1.13](#) : Release Candidate
- [Hosted Pipelines Image Deprecation](#)
- [Visual Studio 2022 for Mac](#) : Preview 2 Available
- [Learn to write Visual Studio extensions](#)
- [Azure DevOps Response to GitKraken SSH Bug](#)
- [.NET Framework October 2021 Security and Quality](#)
- [.NET 6](#) : Release Candidate 2
- [.NET MAUI](#) : Preview 9
- [Azure SDK Release \(October 2021\)](#)
- [Windows Package Manager 1.1](#)

October 8, 2021 — Community

Release Radar · September 2021 Edition

September 27, 2021 — Engineering

Partitioning GitHub's relational databases to handle scale

October 11, 2021 — Security

GitHub security update: revoking weakly-generated SSH keys

October 4, 2021 — Product

A new public beta of GitHub Releases: How we're improving the release experience

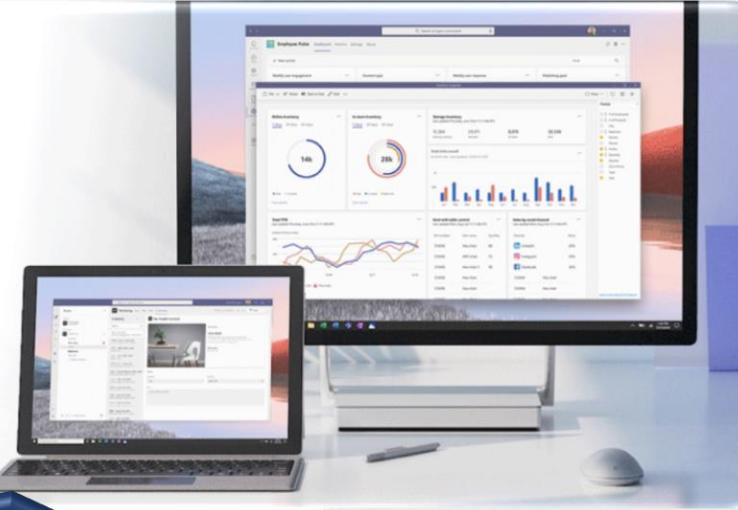
# Office Developer Blogs and Microsoft 365 Dev Center



## Build apps for Microsoft Teams

Extend and customize Teams to create and connect apps and workflows.

[Visit Dev Center >](#)



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

- [Surface Duo Blog \(microsoft.com\)](#)
- [Building bots for Microsoft Teams : Azure Bot Framework](#)
- [Microsoft Graph Export API for Teams : Generally Available](#)
- [Office Add-in that supports Single Sign-on to Office, the add-in, and Microsoft Graph](#)
- [Custom function batching pattern](#)
- [Using storage to share data between UI-less custom functions and the task pane](#)
- [Get OneDrive data using Microsoft Graph and msal.js in an Office Add-in](#)
- [Changes to the me/assignments endpoint in Microsoft Graph Assignments API: Beta](#)



### Script Lab

Use the Office JavaScript API tool to create Office Add-ins for Excel, Word, or PowerPoint.

[Explore >](#)



### Teams UI Kit

Get core components, scenario-based templates, and best practices for designing Teams apps.

[Explore >](#)

## Office Scripts

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



### Breaking changes to the settings endpoint in the Microsoft Graph eDisc...

Today, we're announcing some upcoming breaking changes for developers using the Microsoft Graph eDiscovery API.

[View blog >](#)

[Learn more >](#)

[Try sample scripts >](#)



### Multi-tenant architecture for SaaS apps

Learn how to convert a simple single tenant JavaScript application into a multi-tenant app that can run across different tenants to bring da...

[View blog >](#)



### Adaptive Cards

Create and share rich, interactive UI content in a consistent way.

[Explore >](#)



### Graph Explorer

Try Microsoft Graph API requests and see sample responses.

[Explore >](#)

# Azure



# Azure Updates



## Azure Announcements : Azure Blog

- [Windows 11 on Azure Virtual Desktop](#) : Generally Available
- [Govern Data wherever it resides](#) : Leverage Azure Purview
- [AKS support for WebAssembly System Interface \(WASI\) workloads](#) : Public Preview
- [Azure Translator now supports more than 100 languages and dialects](#) : Generally Available
- [Dynamic concurrency in Azure Functions](#) : Public Preview
- [Azure Sphere version 21.10 expected on Oct. 20, 2021](#) : Generally Available

### Data, AI, Security, & Availability

- [Azure Government Top Secret for US National Security missions](#) : Generally Available
- [Azure Machine Learning](#) : Generally Available in West US 3
- [Azure Monitor container insights for Azure Arc enabled Kubernetes](#) : Generally Available
- [Azure Monitor application insights in Azure Spring Cloud](#) : Generally Available
- [IP-based website protection for Azure Static Web Apps](#)
- [Azure Firewall Premium now generally available in five new Azure regions](#)
- [Reminder: Azure Service Management API for Messaging Services will be retired on 1 November 2021](#)
- [Azure NetApp Files Datastores for Azure VMware Solution](#) : Coming Soon
- [Azure Maps Geolocation Service](#) : Generally Available
- [Azure Data Factory managed virtual network](#) : Generally Available

### Operations & Benefits

- [New centralized management experience for Azure Hybrid Benefit for SQL Server](#) : Public Preview
- [Service Tag Discovery API](#) : Generally Available
- [Standard network features for Azure NetApp Files](#) : Public Preview
- [Azure DevOps September 2021 updates](#) : Generally Available

The Microsoft Learn for Azure homepage features a large 'i' icon and the text 'MICROSOFT LEARN FOR AZURE'. It highlights 'Expand your cloud skills with Microsoft Learn' and 'Learn to build, deploy, and manage your apps and infrastructure with training, certifications, and communities.' Below this, there are sections for 'VIDEOS Build Sessions', 'COMMUNITY Microsoft Tech Community', 'EVENTS Virtual Training Days', and 'Your path to get started' with three learning paths: 'Azure Fundamentals part 1: Describe core Azure concepts', 'Manage resources in Azure', and 'Manage identity and access in Azure Active Directory'.



# Azure global infrastructure

60+ regions, more than any other cloud provider

[Start exploring](#)

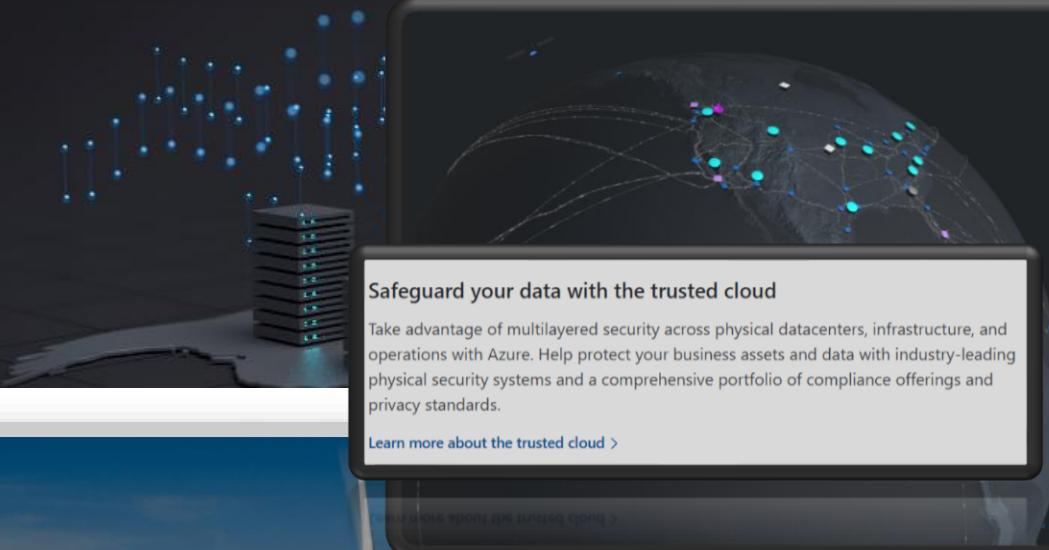


## Run mission-critical systems with confidence

Azure provides enterprise-grade cloud infrastructure on which customers and partners can rely. This includes physical elements like redundant power, networking, and cooling, as well as software elements like safe deployment processes, impactless maintenance, and failure prediction enabled by machine learning.

No matter what your service level objectives are, Azure empowers you to achieve your organization's reliability goals. Take advantage of built-in features that help you design and operate mission-critical systems with confidence—across high availability, disaster recovery, and backup scenarios.

[Learn more about reliability with Microsoft >](#)



## Safeguard your data with the trusted cloud

Take advantage of multilayered security across physical datacenters, infrastructure, and operations with Azure. Help protect your business assets and data with industry-leading physical security systems and a comprehensive portfolio of compliance offerings and privacy standards.

[Learn more about the trusted cloud >](#)

## The elements of cloud infrastructure

The building blocks of Azure make up a global infrastructure that supports your data, near or far. This infrastructure, from a single datacenter to a geography, is accessible wherever you are.

[Powering sustainable transformation →](#)

[Explore the globe](#)

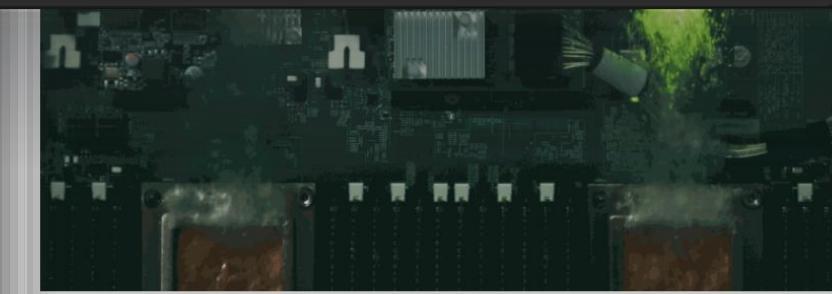


## Achieve your sustainability goals

Using Microsoft Azure is up to 98 percent more carbon efficient than using a traditional enterprise datacenter. Join the growing community of industry leaders that are reducing energy use and transitioning to a more carbon-neutral grid with Azure.

Microsoft has been carbon neutral since 2012 and is committed to being carbon negative by 2030, with the commitment by 2050 to remove all the carbon it's directly emitted since its founding in 1975. Take advantage of the lessons learned from Microsoft's own sustainability journey and help advance a low-carbon future—while you achieve your own sustainability goals.

[Learn more about Azure sustainability >](#)



## Embrace the infrastructure of tomorrow

Learn how Microsoft is improving the performance, efficiency, power consumption, and costs of Azure datacenters for your cloud workloads—with infrastructure innovations such as underwater datacenters, liquid immersion cooling projects, and hydrogen fuel cell technologies.

In order for others to benefit from these innovations, Azure shares server and datacenter infrastructure designs, emphasizing security and standardization, as part of the Open Compute Project—promoting a vibrant industry ecosystem for global datacenter deployment in the cloud.

[Learn more about being future-ready with Azure >](#)

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



## Omnichannel care delivery is becoming the next chapter of healthcare delivery >

September 28, 2021

By [Jenn Roth](#), Global Industry Product Marketing Director-Health

In a post-pandemic world, where quarantining and social distancing may no longer be the norm, the emerging hybrid model of patient care will empower access to care for all and the changes will likely accelerate into the years ahead. Healthcare systems using an omnichannel approach are adjusting the way they triage, evaluate, and care for...[Read more](#)

## Microsoft Cloud for Financial Services: Accelerating innovation for sustainable growth >

October 4, 2021



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

The pandemic cemented the value of digitization and digital channels in the financial services industry—and created new expectations with customers and employees. In talking with our customers every day, financial services organizations have increased focus on how to accelerate their digital agendas to better serve their clients and empower employees, while at the same time...[Read more](#)

## Top 7 sustainability initiatives for Retail and Consumer Goods organizations >

September 20, 2021



By [Shanti Rajagopalan](#), Sr. Director, Strategic Planning, Worldwide Retail and Consumer Goods

We all want to be more sustainable in our day-to-day lives, as consumers and businesses. In fact, I typically consider a new brand or product specifically because of its sustainability practices. And I know I'm not alone. Many of my friends and colleagues share that they like to learn about a brand's sustainability practices before...[Read more](#)

## Telco inspiration at the Digital Transformation World Series >

October 5, 2021



By [Rick Lievano](#), CTO Telecom, WW Media & Communications

As I write this, the 2021 edition of the TM Forum Digital Transformation World Series is underway, with a packed agenda of live and on-demand sessions featuring an extensive roster of telecommunications business leaders and visionaries. I'm always energized by the DTWS and the numerous opportunities it provides to learn from and be inspired by...[Read more](#)

## 3 data-driven strategies that drive digital optimization >

September 16, 2021



By [Pete Dorogoff](#), Digital Strategist, Communications & Media

As a Digital Strategist working within Media & Entertainment I often hear customers express frustration over having more data than they know what to do with. If you can relate, what a wonderful problem to have given data truly is the new currency of this digital age. I believe the problem is best flipped to...[Read more](#)



## Microsoft Turing Academic Program (MS-TAP)

Rank	Model	Participant	Affiliation	Attempt Date	Avg	Sentence-pair Classification	Structured Prediction	Question Answering	Sentence Retrieval
0		Human	-	-	93.3	95.1	97.0	87.8	-
1	Turing ULR v5	Alexander v-team	Microsoft	Sep 17, 2021	83.7	90.0	81.4	74.3	93.7
2	VECO	DAMO AliceMind Team	Alibaba	Sep 21, 2021	82.0	89.0	76.7	73.4	93.3
3	CoFe	HFL	iFLYTEK	Sep 21, 2021	81.9	88.4	75.7	73.9	93.5
4	Polyglot	MLNLC	ByteDance	Apr 29, 2021	81.7	88.3	80.6	71.9	90.8
5	Unicoder + ZCode	MSRA + Cognition	Microsoft	Apr 26, 2021	81.6	88.4	76.2	72.5	93.7
6	ERNIE-M	ERNIE Team	Baidu	Jan 1, 2021	80.9	87.9	75.6	72.3	91.9
7	HICTL	DAMO MT Team	Alibaba	Mar 21, 2021	80.8	89.0	74.4	71.9	92.6
8	T-ULRv2 + StableTune	Turing	Microsoft	Oct 7, 2020	80.7	88.8	75.4	72.9	89.3

### [Microsoft Turing Universal Language Representation model, T-ULRv5, tops X TREME leaderboard and trains 100x faster >](#)

Today, we are excited to announce that with our latest Turing universal language representation model (T-ULRv5), a Microsoft-created model is once again the state of the art and at the top of the Google X TREME public leaderboard. Resulting from a collaboration between the Microsoft Turing...

September 28, 2021 by [Saurabh Tiwary](#) and [Lidong Zhou](#)



### [Real-world evidence and the path from data to impact >](#)

From the intense shock of the COVID-19 pandemic to the effects of climate change, our global society has never faced greater risk. The Societal Resilience team at Microsoft Research was established in recognition of this risk and tasked with developing open technologies that enable a scalable response in times of crisis. And just as we think about scalability in a holistic...

September 23, 2021 by [Darren Edge](#) and [Jonathan Larson](#)



### [Micro-climate predictions: Enabling hyper-local decisions for agriculture and renewables >](#)

It is springtime in Eastern Washington, USA, and the temperature is slightly above freezing. A farmer is preparing to fertilize his fields of wheat and lentils as winter runoff and frost are nearly finished. The plants are susceptible to fertilizer at freezing temperatures, so the...

September 14, 2021 by [Peeyush Kumar](#) and [Ranveer Chandra](#)



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

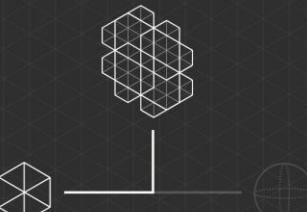
### Grow your quantum skills

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

[Start learning](#)

### Q#: Quantum Programming Language Updates

- Q# is a high-level quantum-focused programming language offering an intuitive and modern approach to quantum program development.
- Q# allows you to focus your work at the algorithm and application level to create quantum programs.



### Optimization

Optimization solvers that run on classical hardware.

LEARN	CODE	USE
Code Samples MS Learn	Visual Studio VS Code Jupyter Notebooks Python IDE	Python SDK Optimization API
SOLVE Optimization solvers	RUN CPUs, FPGAs, GPUs	

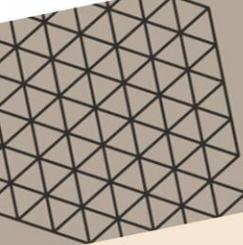
### Optimization

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

Azure Quantum's collaborative development approach highlighted at IEEE QCE21 >

September 29, 2021

By Fabrice Frachon, Principal PM Manager, Azure Quantum



The Azure Quantum ecosystem expands to welcome Qiskit and Cirq developer community. >

October 7, 2021

By Fabrice Frachon, Principal PM Manager, Azure Quantum

Microsoft will be showcasing a wide range of expanded Azure Quantum ecosystem capabilities at IEEE Quantum Week 2021. Our keynote plus several workshops, tutorials, and panels will describe how Microsoft's collaborative development approach is enabling advanced research and exploration of today's quantum hardware and applications while building a strong foundation for a scaled quantum computing. Read more

We're excited to invite Python developers to experience the open Azure Quantum ecosystem with an expanded stack. With new support in Azure Quantum for major quantum Python SDKs, developers can directly submit quantum circuits built with Qiskit and Cirq. You can use familiar tools and leverage your existing development investment to explore quantum hardware in. Read more

# Showcase of the Month



## IT Showcase

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



# Microsoft Showcase Series



## Inside Track

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

Sep 21, 2021 | Kim Peterson

### Transforming how Microsoft manages its corporate real estate data

Microsoft manages hundreds of buildings around the world with various purposes—warehouses, offices, labs, cafes, and so on. Like all companies with large real estate footprints, the company wanted to find better ways of managing each...

Sep 10, 2021 | Danielle Yedinak

### Driving the transformation of Microsoft's employee experience with investment prioritization

The transformation of Microsoft's employee experience has a key pillar: giving employees confidence that their voice matters. A fundamental element to empowering employees is transforming employee signals to an actionable list of employee challenges and...

Sep 16, 2021 | Pete Apple

### Operationalizing the cloud

### Mapping Microsoft's expedition to the cloud with good cartography

When you're charged with mapping Microsoft's expedition to the cloud, sometimes it's best to go back to the basics—like using an old fashioned map to help you find your way. An explorer in his own space, famous British film director Peter Greenaway once noted the significance of maps and cartography. "A map tells you where..."

# Microsoft Events and Training: August Updates



**Microsoft Virtual Training Days**

**Events Catalog**

**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 Sensitive Information and

10/18/2021 | 15:00 (PST) - 10/19/2021 | 18:35 (PST)

Digital

Training

[Registration and details](#)



## App in a Day - PragmaticWorks - United States

10/19/2021 | 08:00 - 16:00 (CST)

Digital

Training

[Registration and details](#)



## Microsoft Azure Virtual Training Day: DevOps with GitHub

10/20/2021 | 08:00 (UTC) - 10/21/2021 | 10:10 (UTC)

Digital

Training

[Registration and details](#)



## Microsoft Azure Virtual Training Day: AI Fundamentals

10/25/2021 | 09:00 - 12:35 (GMT)

Digital

Training

[Registration and details](#)



# Learning and Training : August Updates



## 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.

Learn to be cyber smart with Microsoft security foundations



[See all 25 sessions >](#)



Collaborating with Microsoft Whiteboard



Thursday, October 21, 2021

[See 2 sessions >](#)



Get Started with Power BI



[See all 4 sessions >](#)

Work less, do more with Microsoft Power Automate



[See 2 sessions >](#)

Microsoft Virtual Training Days

# 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



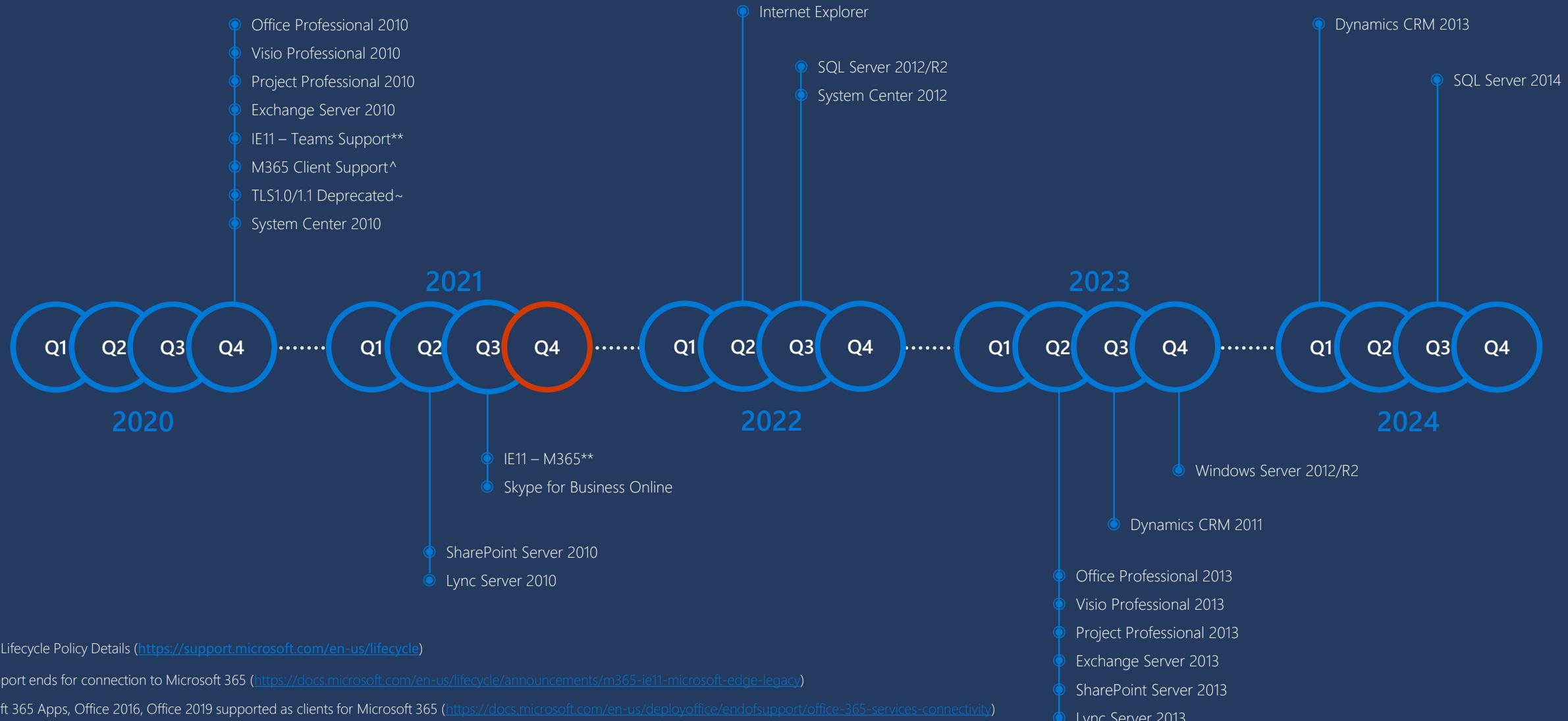
Login not working? Your organization may need to be onboarded to ESI. Please talk to your Microsoft Account Team.

# Product Lifecycles





# End of Service Roadmap to 2024



# Microsoft Product Lifecycle: Modern Policy Products that will Retire



## Products under Modern Policy that will Retire 2021

Products that will retire in 2021: ( <a href="#">Modern Policy</a> )	End of Support Date
Microsoft Endpoint Configuration Manager, version 1906	January 26, 2021
Azure Information Protection Client	March 31, 2021
Dynamics 365 Business Central on-premises, 2019 release wave 2, version 15.x	April 13, 2021
Windows 10, version 1803 (Enterprise, Education, IoT Enterprise)	<b>May 11, 2021</b>
Windows 10, version 1809 (Enterprise, Education, IoT Enterprise)	
Windows 10, version 1909 (Home, Pro, Pro Education, Pro for Workstations)	
Windows Server, version 1909 (Datacenter, Standard)	
Microsoft Endpoint Configuration Manager, version 1910	May 29, 2021
Skype for Business Online	<b>July 31, 2021</b>
Microsoft .NET Core, version 2.1 (LTS)	August 21, 2021
Visio Services in SharePoint Online (in Microsoft 365)	September 30, 2021
Microsoft Endpoint Configuration Manager, version 2002	October 1, 2021
Dynamics 365 Business Central on-premises, 2020 release wave 1, version 16.x	October 12, 2021
Windows 10, version 2004 (Enterprise, Education, IoT Enterprise, Home, Pro, Pro Education, Pro for Workstations)	<b>December 14, 2021</b>
Windows Server, version 2004 (Datacenter, Standard)	
Dynamics 365 Layout	December 31, 2021

## Products under Modern Policy that will Retire in 2022

Products that will Retire in 2022 ( <a href="#">Modern Policy</a> )	End of Support Date
Dynamics 365 Talent – Attract and Onboard apps	February 2, 2022
Dynamics 365 Business Central on-premises, 2020 release wave 2, version 17.x	April 12, 2022
Windows 10, version 1909 (Enterprise, Education, IoT Enterprise) Windows 10, version 20H2 (Home, Pro, Pro Education, Pro for Workstations) Windows Server, 20H2 (Datacenter, Standard)	May 10, 2022
.NET Core 3.1 (LTS) PowerShell 7.x	December 3, 2022

### Announcements

- ➡ 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
- ➡ Microsoft Machine Learning Server (R Server) retirement on July 1, 2022

- ➡ Internet Explorer 11 desktop application ending support for certain operating systems
- ➡ UPDATE: Transport Layer Security 1.0 and 1.1 disablement
- ➡ UPDATE: Adobe Flash Player end of support on December 31, 2020
- ➡ UPDATE: SHA-1 signed content to be retired
- ➡ UPDATE: Exchange Online deprecating Basic Auth

See more >

# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support



## Products Reaching End of Support for 2021

Products Moving to End of Support (Fixed Policy)	End of Support Date
BizTalk Server 2010 (all editions) Host Integration Server 2010 Microsoft Sync Framework 2.1 <b>Windows 7</b> , ESU Year 1 (all editions) Visual Studio 2019, version 16.0 (all editions)	January 12, 2021
Lync 2010 (all editions) Lync Server 2010 (all editions) Microsoft Enterprise Desktop Virtualization 2.0 <b>Windows Embedded Compact 7</b> PerformancePoint Services in SharePoint Server 2010 Project Server 2010 SharePoint Server 2010 SharePoint 2010 (for Internet Sites) SharePoint Foundation 2010	April 13, 2021
Dynamics Retail Management System 2.0 (all editions) Dynamics CRM 2011 Dynamics SL 2011 Microsoft SQL Server Compact 4.0 Windows MultiPoint Server 2011 (all editions)	July 13, 2021
BitLocker Administration and Monitoring 1.0	September 14, 2021
Microsoft Diagnostics and Recovery Toolset 7.0 Silverlight 5 <b>Windows Embedded POSReady 7</b> <b>Windows Thin PC</b> <b>Windows Embedded Standard 7</b> , ESU Year 1 (all editions) Visual Studio 2019, version 16.4 (all editions)	<b>October 12, 2021</b>
Visual Studio 2019, version 16.0	January 12, 2021

## Products Reaching End of Support for 2022

Products Moving to End of Support (Fixed Policy)	End of Support Date
Visual Studio LightSwitch 2011 Windows 7, ESU Year 2 (all editions)	January 11, 2022
Microsoft AppFabric 1.1 for Windows Server Dynamics AX 2009 Dynamics AX 2012 Dynamics AX 2012 R2	April 12, 2022
Cloud Platform System Microsoft Report Viewer Redistributable 2012 Microsoft Report Viewer 2012 Runtime Microsoft SQL Server 2012 Enterprise Core Microsoft SQL Server 2012 (all editions) System Center 2012 App Controller System Center 2012 Configuration Manager System Center 2012 Data Protection Manager System Center 2012 Endpoint Protection for Mac System Center 2012 Operations Manager System Center 2012 Orchestrator System Center 2012 Service Manager System Center 2012 Virtual Machine Manager System Center 2012 R2 App Controller System Center 2012 R2 Configuration Manager System Center 2012 R2 Data Protection Manager System Center 2012 R2 Endpoint Protection System Center 2012 R2 Operations Manager System Center 2012 R2 Orchestrator System Center 2012 R2 Service Manager System Center 2012 R2 Virtual Machine Manager Windows Azure Pack (on Windows Server 2012 R2) Windows Azure Pack V2 Web Sites	July 12, 2022
Windows Embedded POSReady 7, ESU Year 1	October 8, 2022
Forefront Identity Manager 2010 Forefront Identity Manager 2010 R2 Windows Embedded Standard 7, ESU Year 2	October 11, 2022
Azure StorSimple 8000 Series Azure StorSimple 1200 Series StorSimple Data Manager	December 31, 2022

# Microsoft Product Lifecycle: Products moving to Extended Support



## Products Moving to Extended Support for 2021

Products Moving to End of Support ( <a href="#">Fixed Policy</a> )	End of Support Date
Advanced Threat Analytics 1.X Dynamics 365 (CRM 2016) Microsoft Identity Manager 2016*	January 12, 2021
Dynamics C5 2016 Dynamics NAV 2016 Microsoft Diagnostics and Recovery Toolset 10	April 13, 2021
Dynamics GP 2016 Dynamics GP 2016 R2 InfoPath 2013 Project Server 2016 SharePoint Designer 2013 SharePoint Server 2016 <b>SQL Server 2016</b>	<b>July 13, 2021</b>
<b>Windows 10 Enterprise 2016 LTSB</b> (Enterprise, IoT Enterprise)	<b>October 12, 2021</b>

## Products Moving to Extended Support for 2022

Products Moving to End of Support ( <a href="#">Fixed Policy</a> )	End of Support Date
Windows Azure Pack (on Windows Server 2016) BizTalk Server 2016 (all editions) Dynamics NAV 2017 Host Integration Server 2016 HPC Pack 2016 Hyper-V Server 2016 Microsoft Internet Information Services 10.0 System Center 2016 Data Protection Manager 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 Defender for Windows Server 2016 Windows Server 2016 (all editions) Windows Server Update Services for Windows Server 2016 Windows Storage Server 2016	January 11, 2022
Visual Studio 2017	April 12, 2022
SQL Server 2017 on Linux (all editions) SQL Server 2017 on Windows (all editions)	October 11, 2022



# Acquisitions and Announcements

# Microsoft Acquisitions - 2021



Company	Date	Description
<a href="#">Ally.IO</a>	10-07-2021	<a href="#">Ally.io</a> , 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	<a href="#">Clipchamp</a> is a natural fit to extend the cloud-powered productivity experiences in <a href="#">Microsoft 365</a> for individuals, families, schools, and businesses. It's also a great fit for Microsoft Windows, which is a platform for boundless creativity. Clipchamp's <b>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	<a href="#">Peer5</a> 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



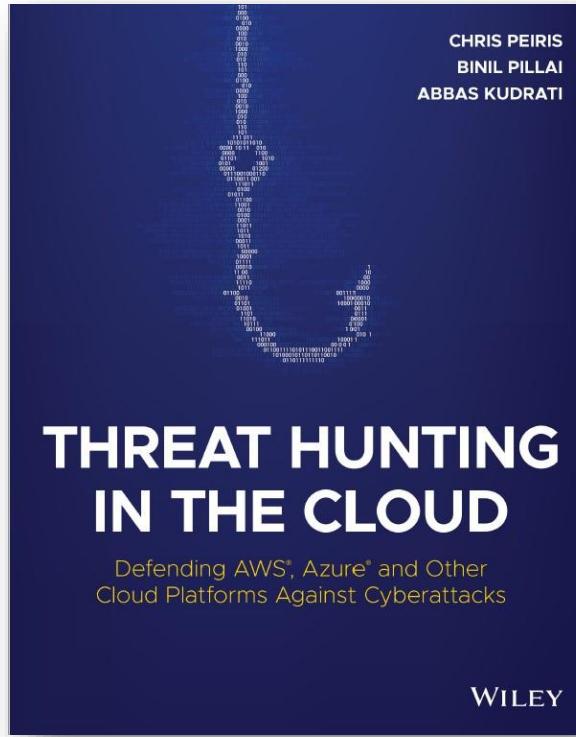
Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless 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 Pyschonauts, Brütal Legend and Broken Age</b> . At the root of every game is an emphasis on creating crazy worlds with originality, story and fun. That commitment to creating a unique, player-centric experience is what drew us to the studio, and I'm looking forward to seeing what we create together.
Drawbridge Solutions	05-28-2019	LinkedIn will integrate Drawbridge's technology into our marketing solutions portfolio to help our customers better reach and understand their professional audiences and measure the ROI of their campaigns.
Dependabot	05-23-2019	Dependabot is integrated directly into GitHub and will monitor your dependencies for known security vulnerabilities and automatically open pull requests to update them to the minimum required version. We are rolling out automated pull requests to all accounts with security alerts enabled along with other enhancements in the coming months.



## Microsoft Acquisitions – 2019 & late 2018

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

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