



# *Monthly Technical Update*

## *SEPTEMBER 2022*

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<https://aka.ms/abbas>

# Microsoft

- [Microsoft Exchange Conference 2022](#)
- [GIT Merge 2022](#)
- [Microsoft Envision – September 2022](#)
- [Microsoft Ignite 2022 – October 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](#)

# The best of what's next

Explore the latest innovations, learn from product experts and partners, level up your skillset, and create connections from around the world. Join us October 12–14 at 9:00 AM PDT to help shape the future of tech.

[Register now](#)

## Live from Seattle

Level up your skills as Microsoft, industry, and partner experts guide you through the latest technology with immersive demos and live sessions. Plus, connect and collaborate with your community both in person and digitally. Space is limited—reserve your spot by registering today.

October 12–13 | Seattle Convention Center



# Microsoft Ignite

## October 12–14, 2022

### What's to come

Explore some of the key moments of the two-day event kicking off October 12.



#### Keynotes

Join one of the biggest moments of the event as Microsoft leaders reveal the latest innovations that will shape the future of business.



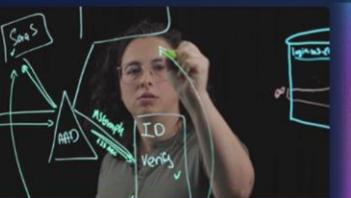
#### Core Theme sessions

Explore how all the tech and trending topics, shared in the keynotes, can accelerate what you do and how you do it.



#### Product deep dives

Learn from Microsoft engineers and experts as they share insights, demo new tech, and guide you through the next evolution of products.



#### Strengthen your network

Collaborate with peers and connect with community leaders and Microsoft Featured Partners through live sessions, interactive chats, and more.

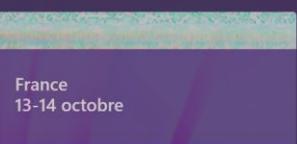
#### Microsoft Ignite Spotlights

Discover Spotlights: A new experience with connection opportunities that help you gain insights from local leaders, partner experts, and your community. Available to all digitally with in-person options.

[Visit FAQ to learn more >](#)



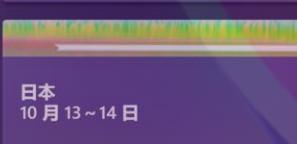
中国  
10月 13-14 日



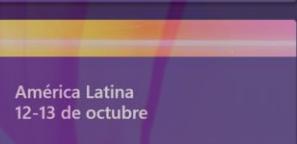
France  
13-14 octobre



Deutschland  
13.-14. Oktober



日本  
10月 13 ~ 14 日



América Latina  
12-13 de octubre



UK  
13-14 October



# GIT MERGE 2022

September 13-14, 2022

## Git Merge 2022

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



# Microsoft Envision :: September 2022 – New season kickoff



## We're preparing a new season experience!

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

[Register now](#)

# Microsoft Envision

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



# emPOWER everyone

September 20 - 22

Workshops 18,19 and 23 **2022**

Orlando • Florida • #MPPC22

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

- **Understand how your peers** are using the Power Platform and putting them to work
- **Get new ideas** on how you can utilize the tools in more useful ways
- **Meet new #PowerAddicts** just like you!
- **Learn about** all the tools in the platform
- **Give your organization the edge it needs** to provide a more productive and exciting work environment
- **Ask product experts** your questions during the live Q&A

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

Power BI

Power Apps

Power Automate

Power Virtual Agents

Power Pages

SPEAKERS

**110+**

SESSIONS

**150+**

WORKSHOPS

**18+**

EXHIBITORS

**40+**

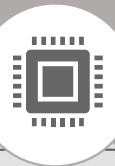


# Updates of Security and Compliance



# 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

### Most affected industries

Reported enterprise malware encounters in the last 30 days

#### Telecommunications

Show all industries >

Devices with encounters:

174,773 (2.19%)

Most affected industries

Reported enterprise malware encounters in the last 30 days

Education

Business and professional services

Retail and consumer goods

August 24, 2022 • 21 min read

#### MagicWeb: NOBELIUM's post-compromise trick to authenticate as anyone

Microsoft security researchers have discovered a post-compromise capability we're calling MagicWeb, which is used by a threat actor we track as NOBELIUM to maintain persistent access to compromised environments.

September 7, 2022 • 11 min read

#### Profiling DEV-0270: PHOSPHORUS' ransomware operations

Microsoft threat intelligence teams have been tracking multiple ransomware campaigns tied to DEV-0270, also known as Nemesis Kitten, a sub-group of Iranian actor PHOSPHORUS.



#### Top threats:

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

read

#### Microsoft investigates Iranian attacks against the Albanian government

Shortly after the destructive cyberattacks on the Albanian government in mid-July, the Microsoft Detection and Response Team (DART) was engaged to lead an investigation into the attacks.

August 25, 2022 • 9 min read

#### MERCURY leveraging Log4j 2 vulnerabilities in unpatched systems to target Israeli organizations

Microsoft detected an Iran-based threat actor the Microsoft Threat Intelligence Center (MSTIC) tracks as MERCURY leveraging exploitation of Log4j 2 vulnerabilities in SysAid applications against organizations located in Israel.

read

## Worldwide

83,448,334 devices with encounters

### Top threats:

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

August 31, 2022 • 11 min read

#### Vulnerability in TikTok Android app could lead to one-click account hijacking

Microsoft discovered a high-severity vulnerability in the TikTok Android application, now identified as CVE-2022-28799 and fixed by TikTok, which could have allowed attackers to compromise users' accounts with a single click.

August 30, 2022 • 4 min read

## Cyber Signals: 3 strategies for protection against ransomware

New Cyber Signals shows more than 80 percent of ransomware attacks can be traced to common configuration errors. Here's how we can get ahead of these attacks together as a cyber defender community.

[Read more >](#)

September 8, 2022 • 7 min read

### The art and science behind Microsoft threat hunting: Part 1

At Microsoft, we define threat hunting as the practice of actively looking for cyberthreats that have covertly (or not so covertly) penetrated an environment. This involves looking beyond the known alerts or malicious threats to discover new potential threats and vulnerabilities.

September 7, 2022 • 9 min read

### One Microsoft manager's entrepreneurial vision for multicloud identity and access

Balaji Parimi, Partner General Manager of Permissions Management in the Identity and Network Access Division at Microsoft, discusses what his startup background brings to his work in identity and access management.



August 24, 2022 • 10 min read

### Looking for the 'Sliver' lining: Hunting for emerging command-and-control frameworks

Threat actors evade detection by adopting the Sliver command-and-control (C2) framework in intrusion campaigns.



August 22, 2022 • 2 min read

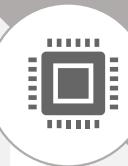
### Cyber Signals: Defend against the new ransomware landscape

Today, Microsoft is excited to publish our second edition of Cyber Signals, spotlighting security trends and insights gathered from Microsoft's 43 trillion security signals and 8,500 security experts. In this edition, we pull back the curtain on the evolving cybercrime economy and the rise of Ransomware-as-a-service (RaaS).

August 25, 2022 • 5 min read

### Microsoft Security highlights from Black Hat USA 2022

Black Hat USA 2022 marked the twenty-fifth year that security researchers, security architects, and other security professionals have gathered to share the latest research, developments, and trends. Here are the highlights from the Microsoft Security booth.



A photograph of a young woman with long blonde hair in a braid, wearing a white ribbed sweater. She is sitting at a desk, looking down at a tablet device she is holding with both hands. A stylus pen is in her right hand. On the desk in front of her is a laptop and a notebook. The background shows large windows with a view of a city skyline.

# Microsoft 365 update information

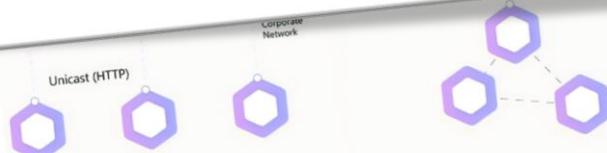
# Microsoft Teams Blog:



## Inside Microsoft Teams Season 6 Episode 1 – Feature Focus...

Stephen Rose on Sep 09 2022 08:00 AM

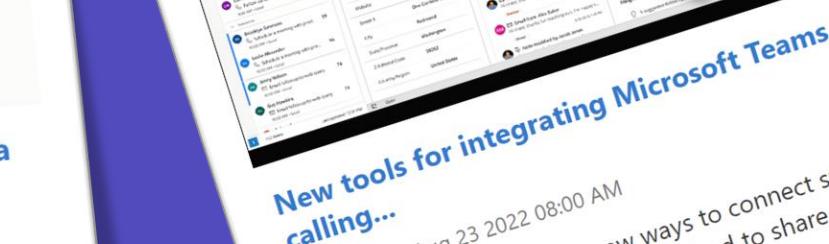
Over the past few months, I had a chance to meet many of you in person at the M365 Conference, EduCon and others. The on...



## Introducing Microsoft eCDN for a New Era of Communications

Amber Waisanen on Sep 07 2022 08:00 AM

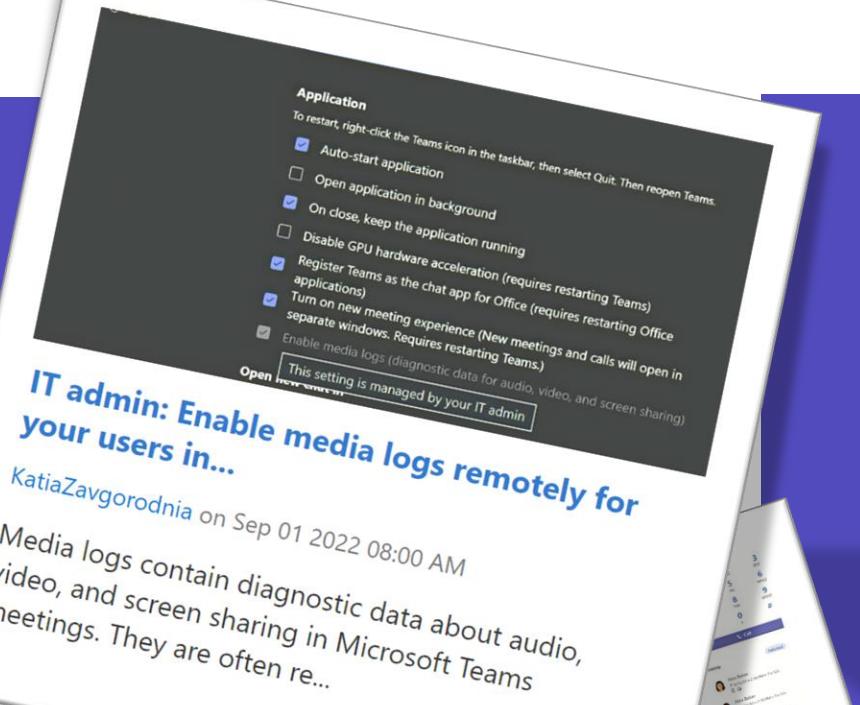
Following the completion of our acquisition of Peer5 this last year, both teams have been committed to building a better...



## New tools for integrating Microsoft Teams calling...

tchladek on Aug 23 2022 08:00 AM

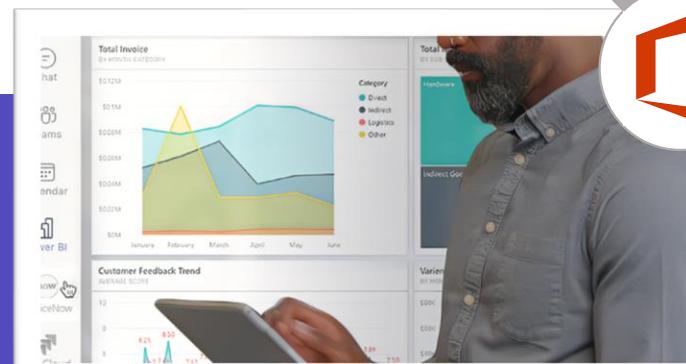
As organizations look for new ways to connect staff, customers, and partners, we're excited to share news about increase...



## IT admin: Enable media logs remotely for your users in...

KatiaZavgorodnia on Sep 01 2022 08:00 AM

Media logs contain diagnostic data about audio, video, and screen sharing in Microsoft Teams meetings. They are often re...



## Microsoft Teams helps manage apps for everyday work...

Ronit\_Ben\_Sheffer on Sep 08 2022 08:00 AM

In both our personal lives and at work, we're always looking for ways to improve our productivity and efficiency. Apps r...



## Announcing Microsoft Teams optimized for Apple silicon

Anupam\_Pattnaik on Aug 03 2022 08:00 AM

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

# Microsoft Viva: The employee experience platform for the new world of work



- Get senior leadership involved from the beginning.** Having them understand the overall benefits and model behavior will significantly increase adoption.
- Partner with leader-nominated points of contact.** They're closest to the rhythms and communication channels where Viva can be naturally promoted, and can recruit additional champions.
- One size does not fit all.** Communicating at a broad, global level is not enough for a large, diverse organization. You must consider how to connect at a regional, business unit, or even a role-based level.
- The employee feedback loop is key.** This will help senior leadership and product teams understand what is working and what is not and pivot to make future improvements.

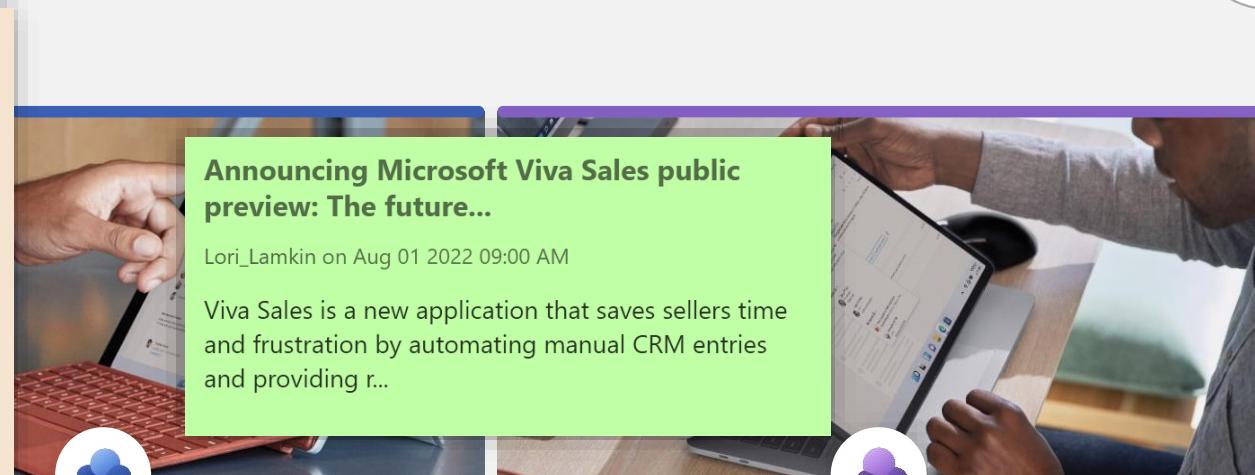
## Driving adoption of Microsoft Viva at Microsoft

Shin-Yi on Aug 29 2022 11:14 AM

There's a team at Microsoft working hard to help the company's 220,000-plus employees adopt Microsoft Viva. The Microsoft...

## Viva Connections

Culture & Communications



## Announcing Microsoft Viva Sales public preview: The future...

Lori\_Lamkin on Aug 01 2022 09:00 AM

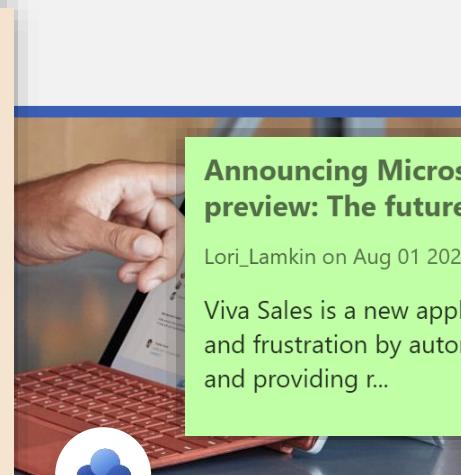
Viva Sales is a new application that saves sellers time and frustration by automating manual CRM entries and providing r...



## Viva Insights

Productivity & Wellbeing

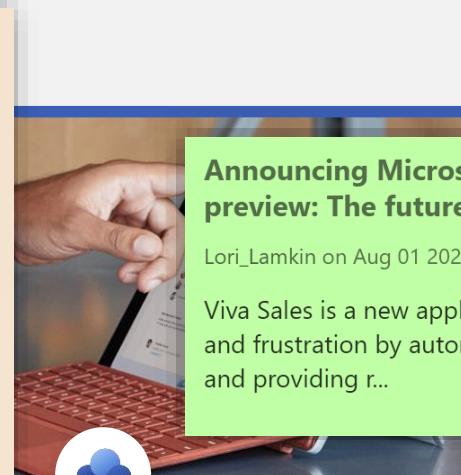
Knowledge & Expertise



## Learn on the go with Viva Learning mobile app updates

Andrea\_Lum on Sep 08 2022 09:00 AM

Read about new features in the Viva Learning mobile app, including notifications, in-app playback, and a design refresh.



## Microsoft Viva Engage is now generally available

Michael\_Holste on Aug 23 2022 08:00 AM

Today, we're excited to announce that Microsoft Viva Engage, the newest app within Microsoft Viva, is now generally available.

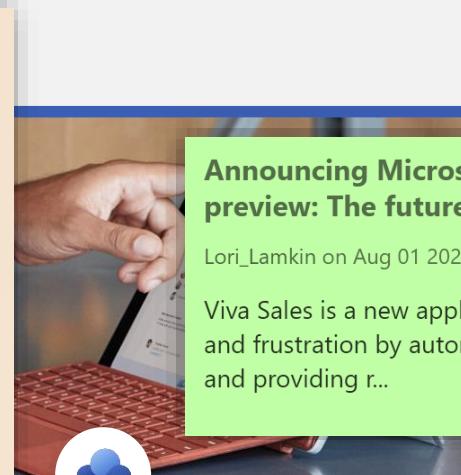


## Viva Learning

Growth & Development

## Viva Goals

Purpose & Alignment



## Viva Engage

Culture & Communications

# What's New in Microsoft 365

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



## Microsoft 365 Updates:

- [Use an example record to import data to your Excel workbook](#)
- [Background Blur and Effects for Citrix in Microsoft Teams](#)
- [Microsoft Teams Global Sign in and Sign out :: Private Preview](#)
- [Microsoft Purview Data Lifecycle Management – Auto-labeling of Cloud Attachments :: Preview](#)
- [Track tasks with @mentions in Excel :: Public Preview](#)
- [Account switching in Office Mobile App :: Public Preview](#)
- [Configure navigation links to open in a new tab in SharePoint](#)
- [Choose preferred download locations for files in Microsoft Teams](#)
- [Retired : Basic Authentication for Exchange Online](#)
- [Experience Insights for Microsoft 365 :: Preview](#)

## Meet Microsoft Teams Rooms Pro >

Now more than ever organizations need a single, integrated experience that makes working together easier and more engaging for their employees whether they are all in the same room, remote, or—for many of us—a mix of both. Because of this, Microsoft is happy to announce changes to our Microsoft Teams Rooms licensing model.

# Microsoft 365 roadmap

Get the latest updates on our best-in-class productivity apps and intelligent cloud services. Rethink productivity, streamline business processes, and protect your business with Microsoft 365.

Using this roadmap

Roadmap improvements

- > Microsoft Intune and Microsoft Endpoint Manager: Add DMG type app management for MacOS Preview: February 2022  
GA: December 2022
- > Excel: Track tasks with @mentions GA: October 2022
- > Microsoft 365 compliance center: Microsoft Purview | Insider Risk Management - Microsoft Defender for Endpoint alerts Preview: April 2022  
GA: October 2022
- > Office app: Account Switching in Office mobile app GA: October 2022
- > Microsoft Stream: Add or edit multiple captions and transcripts for a video in SharePoint, OneDrive, or Stream (on SharePoint) GA: October 2022
- > Microsoft Stream: On-demand caption and transcript generation for supported languages GA: October 2022
- > Microsoft 365 compliance center: Microsoft Purview | eDiscovery (Premium) - Support for Graph Connectors content Preview: July 2022  
GA: October 2022
- > Outlook: Friendlier link names will now work for files added to messages through the "attach" icon GA: October 2022
- > Word: Easily switch between editing, reviewing, and viewing a document in Word for Windows and Word for Mac GA: September 2022
- > Microsoft Teams: Device Test for virtual visits GA: September 2022
- > Microsoft Teams: Cameo in PowerPoint Live GA: September 2022
- > Office app: Microsoft Office Default change – Blocking VBA macros in files from the internet GA: September 2022
- > Microsoft Teams: Microsoft Teams chat embedded within Dynamics 365 GA: September 2022
- > Microsoft Teams: HID Support for VMware GA: September 2022



# Power Platform and Dynamics



## Empower self-service by adding knowledge base search to your bots >

September 7, 2022 • 3 min read

By [Sourav Das Biswas](#), Senior FastTrack Solution Architect

Customers appreciate the quick access to help that self-service bots provide. They want to be empowered to research and solve issues on their own, which increases their brand loyalty. Knowledge management integration in Microsoft Power Virtual Agents enables customers to find answers from a knowledge base directly in a bot conversation, and still get help [Read more](#)



## Use preferred agent routing to create lifelong customer relationships >

September 6, 2022 • 2 min read

By [Payas Agrawal](#), Program Manager II, Dynamics 365 Customer Service

Organizations are looking for ways to offer hyper-personalized service and foster deeper relationships with their customers. Customers want to connect to agents who understand their needs. They feel more comfortable talking to an agent who has served them in the past, knows about their issues, and can resolve them quickly. Agents want to serve their [Read more](#)



## Data empowers Valencia CF to create personalized fan experiences >

September 1, 2022 • 4 min read

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

We all know one, the person whose weekend is consumed by a singular passion for their favorite sports team. Their weekdays are dedicated to deconstructing the recent drama while contemplating the narrative awaiting the Saturday or Sunday afternoon ahead. The rain-soaked terraces are home to them. The booming music of the arena is their hymn [Read more](#)

Roadmaps and Release plans:



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

- [Microsoft Power Platform Conference :: Orlando Florida :: Sept. 18 – 23, 2022](#)
- [AAD-based filtration for Power BI Datamarts :: Preview](#)
- [Power BI component for Vue.js applications :: Generally Available](#)
- [Microsoft Purview data loss prevention policies in Power BI :: Preview](#)
- [Power Platform Administration Planning :: Guide](#)
- [Content Security Policy for Power Apps :: Public Preview](#)
- [Power Platform App Install API & Tools Support :: Public Preview](#)
- [Automatically create a Power App from a REST API](#)
- [US Acute Care Solutions automates processing of 20 million medical records annually using Power Automate \(RPA\)](#)
- [Power Virtual Agents Customer Lockbox support :: Preview](#)
- [Power Apps August 2022 Feature Update](#)



*Send a customized email when a new file is added*

By Microsoft

Automated  
R 529335



*Start approval when a new item is added*

By Microsoft

Automated  
R 420500

# Microsoft Power Platform



## Microsoft Power Platform

The low code platform that spans Microsoft 365, Azure, Dynamics 365, and standalone apps.



**Power BI**  
Business analytics



**Power Apps**  
App development



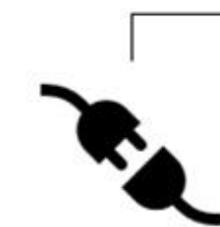
**Power Automate**  
Process automation



**Power Virtual Agents**  
Intelligent virtual agents



**Power Pages**  
External-facing  
websites



**Data  
connectors**



**AI Builder**



**Dataverse**

# Developer and GitHub

## GitHub Blog and Changelog

- [Dependabot now alerts for vulnerable GitHub Actions](#)
- [Custom repository role creation APIs :: Public Beta](#)
- [GitHub Actions Larger Runners :: Public Beta](#)
- [Deprecating Learning Lab – now GitHub Skills](#)
- [Update and configure code security enablement settings via the organization REST API](#)
- [Autolinks with alphanumeric or numeric IDs](#)
- [Packages: Fine-grained permissions and organization-level publishing :: Available for the GitHub Packages npm registry](#)
- [New options for controlling the default commit message when merging a pull request](#)
- [SSH commit verification now supported](#)
- [Merge group webhook event and GitHub Actions workflow trigger](#)

## Microsoft Developer Blogs:

- [.NET 7 comes to Azure Functions & Visual Studio 2022](#)
- [Surface Duo Design Kit 2.2 update](#)
- [Azure DevOps Graph connectors for Microsoft Search](#)
- [Announcing Materialized Views for Azure Cosmos DB API for Cassandra Preview](#)
- [Announcing built-in container support for the .NET SDK](#)
- [vcpkg August 2022 Release is Now Available: CMake Version Update, Updated FAQ, Cross-compilation Fix for Apple Silicon](#)
- [Official Support for Arm64EC in C++ :: Generally Available](#)
- [Upcoming changes to data visibility for Microsoft Graph callRecords APIs](#)

## SCA vs SAST: what are they and which one is right for you?

We're taking a look at two commonly-used security tools and detailing how they can help secure your projects.



Brittany O'Shea September 9, 2022

## GitHub Copilot

### Research: quantifying GitHub Copilot's impact on developer productivity and happiness

When the GitHub Copilot Technical Preview launched just over one year ago, we wanted to know one thing: Is this tool helping developers? The GitHub Next team conducted research using a combination of surveys and experiments, which led us to expected and unexpected answers.

Eirini Kaliamvakou September 7, 2022

## Git's database internals V: scalability

This fifth and final part of our blog series exploring Git's internals shows several strategies for scaling your Git repositories that match related database sharding techniques.

Derrick Stolee September 2, 2022



## Release Radar • August 2022 Edition

We've been gearing up to launch GitHub Universe 2022 and our community has been launching cool projects left right and center. These projects include everything from world-changing technology to developer...

Michelle Mannerling September 2, 2022

## GitHub Actions: introducing the new, larger GitHub-hosted runners beta

Now your team can spend less time managing infrastructure and more time writing code.

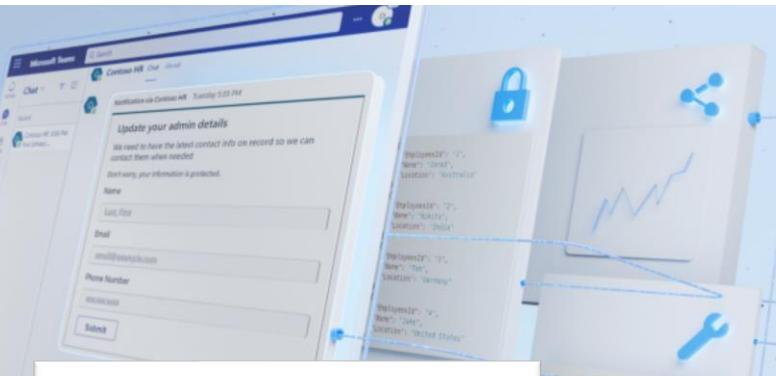
Ben De St Paer-Gotch September 1, 2022

## Introducing Trilogy: a new database adapter for Ruby on Rails

We've open sourced Trilogy, the database adapter we use to connect Ruby on Rails to MySQL-compatible database servers.

Matthew Draper August 25, 2022

# Office Developer Blogs and Microsoft 365 Dev Center



## Innovate with collaborative apps

Build collaborative apps for Microsoft 365 and Microsoft Teams that connect people, data, and processes to help users thrive in the hybrid workplace.

[Read blog](#)

Build low-code apps and workflows with Power Platform

[Learn more](#)

Create customized experiences for Viva and SharePoint

[Learn more](#)

Grow customer reach and engagement with apps built for Microsoft Viva

[Learn more](#)

Design beautiful user experiences using Fluent UI

[Learn more](#)

## Office Scripts

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

[Learn more >](#)[Try sample scripts >](#)

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

- Starting your Journey as an Microsoft 365 Developer
- Account linking with Microsoft Teams Single Sign-On
- Introducing Microsoft Teams App Camp
- Build a productivity dashboard with Microsoft Teams Toolkit for Visual Studio
- Load and write Open XML in your Word add-in
- Insert Excel charts using Microsoft Graph in a PowerPoint Add-in
- Get OneDrive data using Microsoft Graph and MSAL.NET in an Office Add-in

Build powerful apps with Outlook and Office

[Learn more](#)

Build rich collaborative experiences with Microsoft Teams

[Learn more](#)

# Azure



# Azure Updates

## Azure Announcements : Azure Blog

### VMs, Features, & Announcements

- [Azure Private MEC – Azure Private 5G Core and a thriving partner ecosystem](#)
- [New Azure Virtual Machines with Ampere Altra Arm-based processors](#) :: Generally Available
- [Azure Communication Services support for Teams identities](#) :: Generally Available
- [Enterprise VMware Cloud Director Service for Azure VMware Solution](#) :: Public Preview
- [Azure Arc-enabled servers in Azure China](#) :: Public Preview
- [ExpressRoute IPv6 Support for Global Reach](#) :: Generally Available
- [Live resize for Premium SSD and Standard SSD Disk Storage](#) :: Generally Available
- [App Configuration geo replication support](#) :: Public Preview

### Data, AI, Security, & Availability

- [Authenticate to Service Bus using managed identity](#) :: Generally Available
- [Azure Data Explorer Kusto Emulator](#) :: Generally Available
- [Encrypt storage account with cross-tenant customer-managed keys](#) :: Public Preview
- [Unity Catalog for Azure Databricks](#) :: Generally Available
- [Ephemeral OS disks supports host-based encryption using customer managed key](#) :: Public Preview
- [Azure Data Explorer supports native ingestion from Amazon S3](#) :: Generally Available
- [Enhance Azure Firewall policy management with Tufin SecureTrack integration](#)
- [Network security groups support for private endpoints](#) :: Generally Available

### Operations & Benefits

- [Azure Gateway Load Balancer](#) :: Generally Available
- [Prevent a lifecycle management policy from archiving recently rehydrated blobs](#) :: Generally Available
- [Azure Storage Explorer support for Azure App Configuration resources](#) :: Public Preview

## A quick start guide to benchmarking AI models in Azure: MLPerf Inference v2.1

By  Hugo Affaticati

Published Sep 08 2022 10:00 AM

562 Views

By Hugo Affaticati, Technical Program Manager

### Introduction

Azure is pleased to share results from our MLPerf Inference v2.1 submission. For this submission, we benchmarked our [NC A100 v4-series](#), [NDm A100 v4-series](#), and [NVads A10 v5-series](#). They are powered by the latest NVIDIA A100 PCIe Tensor Core GPUs, NVIDIA A100 SXM Tensor Core GPUs and NVIDIA A10 Tensor Core GPUs respectively. These offerings are our flagship virtual machine (VM) types for AI inference and training and enable our customers to address their inferencing needs, ranging from 1/6 of a GPU to eight GPUs. These series are all available making AI inference accessible to all. We are excited to see what new breakthroughs our customers will make using these VMs.

In this document, we share outstanding AI benchmark results MLPerf Inference v2.1 and the best practices and configuration details you need to be able to replicate them. And as a result, not only do we show that Azure is committed to [providing our customers with the latest GPU offerings](#), but that are also [in line with on-premises performance](#) and [available on-demand in the cloud](#), and scales to [adapt to all sizes of AI workloads and needs](#).

## Elevate your visualizations with Azure Managed Grafana—now generally available

Wednesday, August 31, 2022

Announcing the general availability of Azure Managed Grafana, a managed service that enables you to run Grafana natively within the Azure cloud platform. With Azure Managed Grafana, you can seamlessly and securely connect with and scale to businesses' existing Azure services, enhancing observability and cloud management.

[Arti Gulwadi](#), Senior Product Marketing Manager



# Azure Services Directory



## Microsoft Genomics

Power genome sequencing and research insights

### Microsoft Genomics

- ❖ [Cloud implementation of Burrows-Wheeler Aligner \(BWA\)](#) and the [Genome Analysis Toolkit \(GATK\)](#) for secondary analysis
- ❖ [ISO-certified and covered by Microsoft under the HIPAA BAA](#)
- ❖ Global coverage to meet your data sovereignty needs
- ❖ Only pay for what you use with no commitment
- ❖ [Easy-to-use API for integration with partner solutions](#)
- ❖ [Cromwell on Azure](#), users can accelerate their genomic research with the hyperscale compute capabilities of Azure
- ❖ Leverage [Genomics Notebooks in GitHub](#) for faster results



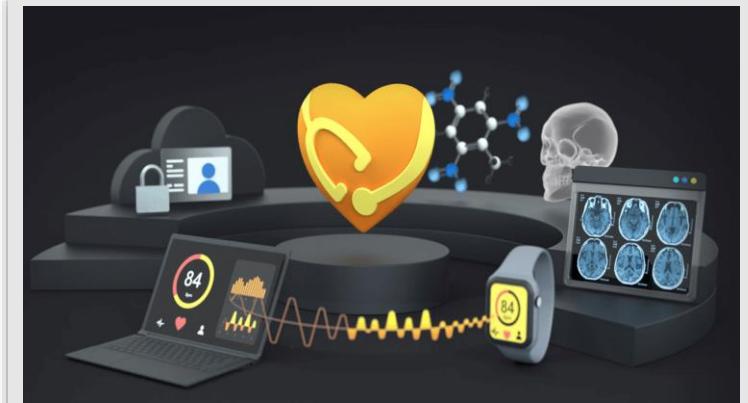
## Health Bot

A managed service purpose-built for development of virtual healthcare assistants

### Health Bot

[Build AI-powered healthcare experiences at scale](#)

- ❖ Empowers developers in healthcare organizations to [build and deploy AI-powered, compliant, conversational healthcare experiences at scale](#).
- ❖ Create health bots [using built-in medical knowledge bases, triage protocols and language models](#) trained to understand clinical terminology
- ❖ Leverage [privacy and security mechanisms](#) to align with industry compliance requirements
- ❖ Authenticate and integrate with EMR data using FHIR data connections to personalize patient flows



## Azure Health Data Services

Unify and manage health data and protected health information (PHI) in the cloud

### Azure Health Data Services

- ❖ Purpose-built suite of technologies for protected health information (PHI) in the cloud
- ❖ Evolved Azure API for FHIR and offers additional technology and services.
- ❖ [Quick deployment of managed, enterprise-grade FHIR, DICOM, and MedTech services](#)
- ❖ [Connectors to Azure Synapse Analytics, Azure Machine Learning, and Power BI to generate insights from real-world data](#)
- ❖ Azure Health Data Services is [HITRUST CSF certified](#), store PHI in accordance with HIPAA and GDPR requirements and meet ONC and CMS mandates

# New trends with Microsoft Technology



# Updates from Microsoft Industry Blogs



## IBC Conference: Transforming media and entertainment with the Microsoft Cloud >

September 9, 2022 • 4 min read

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

IBC is the premier global event, created by the industry for the industry that highlights the latest innovations in both media and technology. [Read more](#)



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

August 11, 2022 • 4 min read



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

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



## Build infrastructure partnerships for lasting impact: Microsoft at ITS World Congress >

August 30, 2022 • 4 min read



By [Jeremy M. Goldberg](#), WWPS Director of Critical Infrastructure

Building partnerships is an interpersonal endeavor. But it's also a strategic decision that private sector organizations must make and a commitment that public sector organizations must also make to build the systems they need to support creative, collaborative work. [Read more](#)



## Secure the cyber domain with Microsoft Defense and Intelligence >

August 17, 2022 • 3 min read



By [Jonathon Beesley](#), Director of Business Programs, Worldwide Defense & Intelligence, Microsoft



[Arthur Thomas \(A.T.\) Ball](#), Senior Business Program Manager, Worldwide Defense & Intelligence, Microsoft

As an active partner, the Microsoft Defense and Intelligence team will be at the Atlantic Future Forum 2022 to discuss ways in which we are working with militaries and other security forces; helping them reimagine what digital operations can do to protect national security. [Read more](#)



# Microsoft Cloud for Sustainability

Building a clean-energy future with your business

## Sustainability from the datacenter to the cloud with Azure

Azure sustainability starts at the datacenter and extends to AI-driven products and local projects. Join a global community committed to building a resilient future that's good for your business and the planet.

[Learn more >](#)

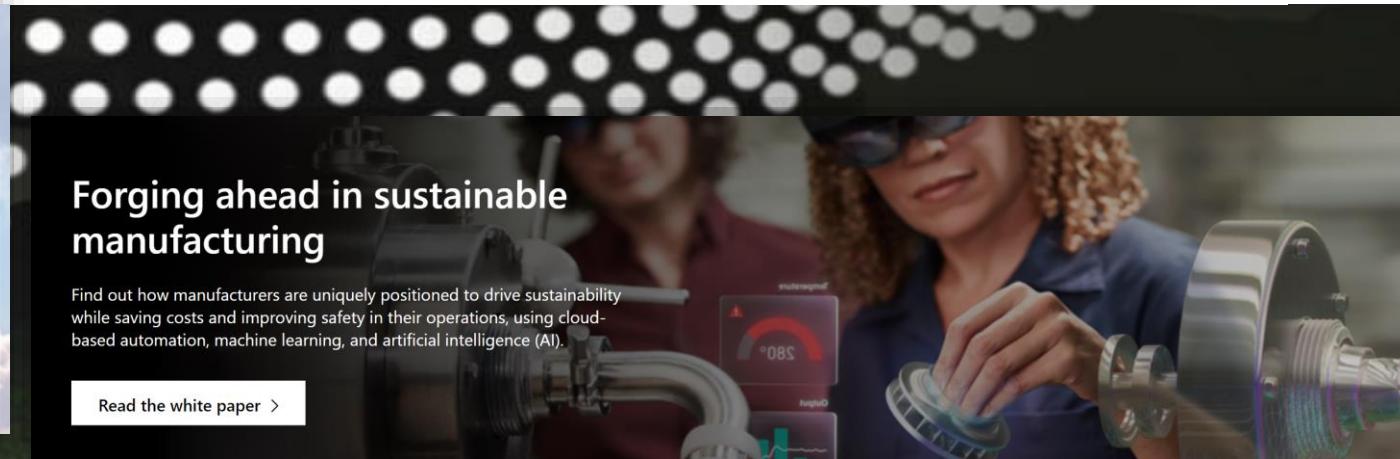
### Explore Microsoft Cloud for Sustainability

Get an in-depth look at Microsoft Cloud for Sustainability.

[Read documentation >](#)

### 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.

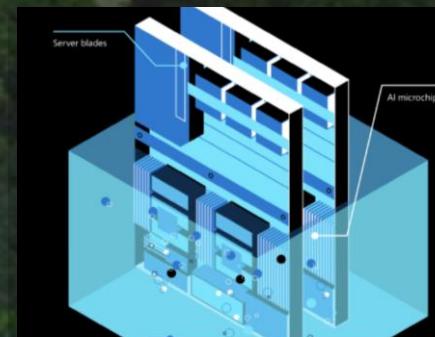


### Forging ahead in sustainable manufacturing

Find out how manufacturers are uniquely positioned to drive sustainability while saving costs and improving safety in their operations, using cloud-based automation, machine learning, and artificial intelligence (AI).

[Read the white paper >](#)

### What's new and planned for Microsoft Cloud for Sustainability



#### Liquid immersion cooling

Learn how new server cooling methods can help minimize the environmental impact of physical datacenters—reducing energy use while providing higher processing power.

[Download the PDF >](#)



#### Grid-interactive UPS batteries

Find out how small steps like implementing grid-interactive UPS batteries can make a big difference for meeting sustainability goals and reducing carbon footprint.

[Download the PDF >](#)



#### Cleaner fuels for power backup

See how switching from traditional diesel to less-carbon-intensive fuels to run datacenter backup generators helps to reach net-zero carbon emissions.

[Download the PDF >](#)



# Microsoft Cloud for Sustainability

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

## Emissions Impact Dashboard

Estimate your carbon emissions related to using Microsoft cloud services—including Azure and Microsoft 365—and make more data-driven decisions about cloud usage.

### Emissions Impact Dashboard

Understand and help reduce your organization's environmental impact with the Emissions Impact Dashboard.

[Explore the dashboard >](#)

### GHG emissions reporting training

Explore learning modules to measure and report greenhouse gas (GHG) emissions.

[Get started >](#)

### Energy efficiency training

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

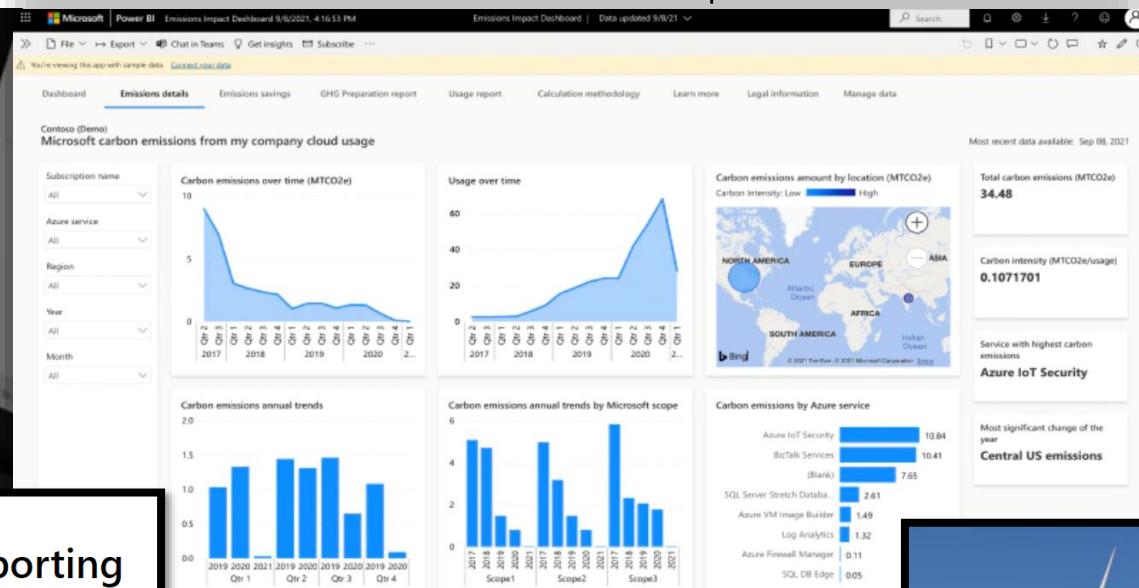
[Get started >](#)

## Cloud carbon tracking for your path to net zero

Using Power BI template apps and consistent, third party-validated carbon accounting, the Emissions Impact Dashboard for Azure and the Emissions Impact Dashboard for Microsoft 365 (now in preview) help you measure your Microsoft Cloud-based emissions and carbon savings potential.

[App for Azure >](#)

[App for Microsoft 365 >](#)

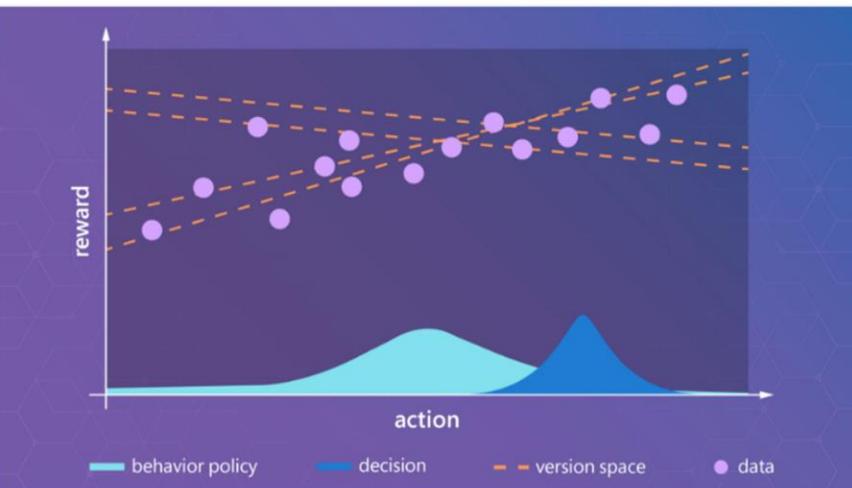


### Renewable energy procurement training

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

[Get started >](#)

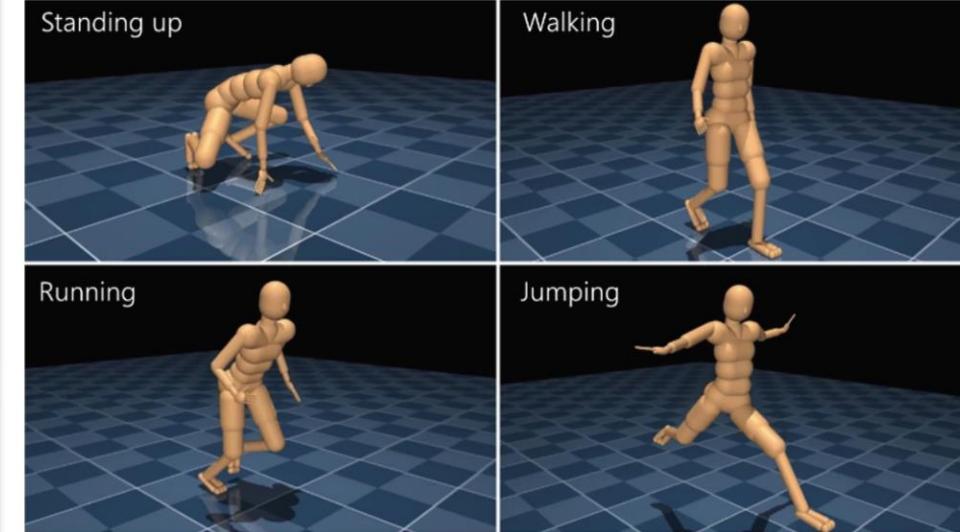
# Microsoft Research Blog



## A game-theoretic approach to provably correct and scalable offline RL >

Despite increasingly widespread use of machine learning (ML) in all aspects of our lives, a broad class of scenarios still rely on automation designed by people, not artificial intelligence (AI). In real-world applications that involve making sequences of decisions with long-term consequences, from allocating beds...

September 7, 2022 by [Ching-An Cheng](#), [Tengyang Xie](#), and [Nan Jiang](#)



## MoCapAct: Training humanoid robots to “Move Like Jagger” >

What would it take to get humanoid, bipedal robots to dance like Mick Jagger? Indeed, for something more mundane, what does it take to get them to simply stand still? Sit down? Walk? Move in myriads of other ways many people take for granted? Bipedalism...

August 25, 2022

# Microsoft Quantum Blog



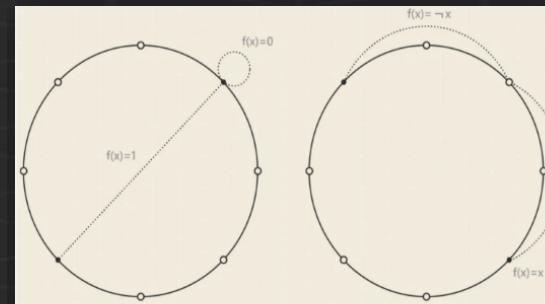
IonQ Aria is available now, exclusively on Azure Quantum >

August 16, 2022 • 2 min read

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

Azure Quantum is the first cloud platform to enable access to IonQ Aria a new trapped ion system that can perform hundreds of quantum gates in a single algorithm.

[Read more](#)



## The Upskilling Imperative: Azure Quantum for Educators >

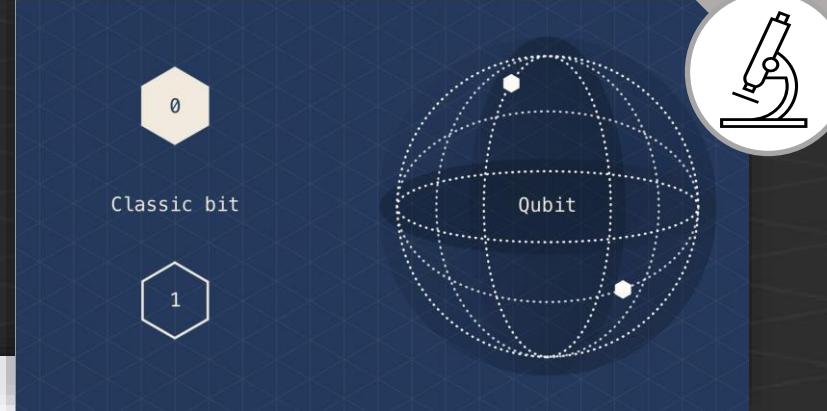
August 8, 2022 • 3 min read



By [Linda Lauw](#), Sr. Director, Planning & Partnerships, Azure Quantum

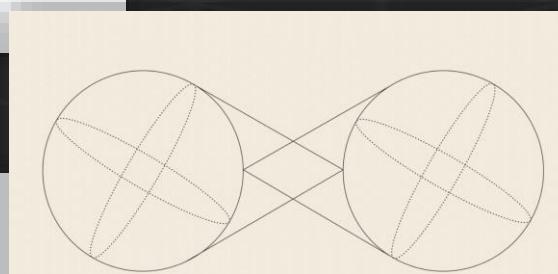
In our efforts to innovate across every layer of the Azure Quantum stack, we are pleased to launch Azure Quantum for Educators: a one-stop resource for curriculum, samples, and tools to facilitate the skilling up of a quantum-ready workforce.

[Read more](#)



## Superposition

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



## Entanglement

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

# 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 9, 2022 | Lukas Velush

### Upgrading Microsoft's core Human Resources system with SAP SuccessFactors

Microsoft's core Human Resources system was aging and needed to be replaced. Thanks to its limitations, when a company employee transferred to a new job in a different country or region, it could seem like they were starting over. "When employees moved country to country within the company, behind the scenes our HR operations teams...

Sep 9, 2022 | Keith Boyd

### How Microsoft Digital improves its own Employee Experience—and yours—as Customer Zero

Anyone who has been around the technology industry for a while is familiar with the concept of "dogfooding." "Eat your own dog food" is a phrase that has been in use at Microsoft since the 1980s, and it is common vernacular in the industry to describe the process of a company using its own products...

Aug 25, 2022 | Jason Kellington

### Simplifying compliance evidence management with Microsoft Azure confidential ledger

The Microsoft Digital Employee Experience (MDEE) team is using Microsoft Azure confidential ledger to create a centralized evidence store to streamline auditing needs. This evidence store enables teams from across Microsoft to store records and data related to regulatory compliance in a single location. A single collection point simplifies evidence storage for developers and compliance...

# Microsoft Learning and Training : New Sessions



## Virtual workshops and training

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

Get started with  
Microsoft Power  
Virtual Agents

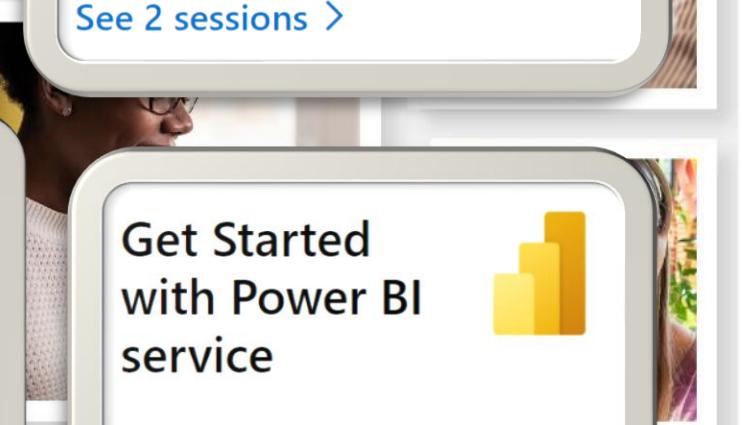
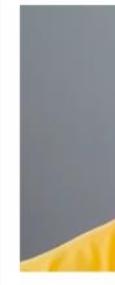


[See all 5 sessions >](#)

Get started with  
Microsoft Power  
Automate



[See all 7 sessions >](#)



Device management  
with Microsoft Intune



[See all 18 sessions >](#)

Get Started  
with Power BI  
service



[See all 5 sessions >](#)

Microsoft Virtual Training Days

# Microsoft Events and Training: Updates



## Microsoft Virtual Training Days

## Events Catalog

## Microsoft Ignite

October 12–14, 2022

Microsoft 365 Virtual Training Day:  
Introduction to Microsoft Viva

10/5/2022 12:00 PM (EST)

[Register Now >](#)

Microsoft Azure Virtual Training  
Day: DevOps with GitHub

10/19/2022 12:00 PM (EST)

[Register Now >](#)

Microsoft Power Platform Virtual  
Training Day: Rapidly Build Apps

10/6/2022 9:00 AM (EST)

[Register Now >](#)

Microsoft Azure Virtual Training  
Day: Deliver Integrated Analytics  
with Azure Synapse

10/20/2022 9:00 AM (EST)

[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 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



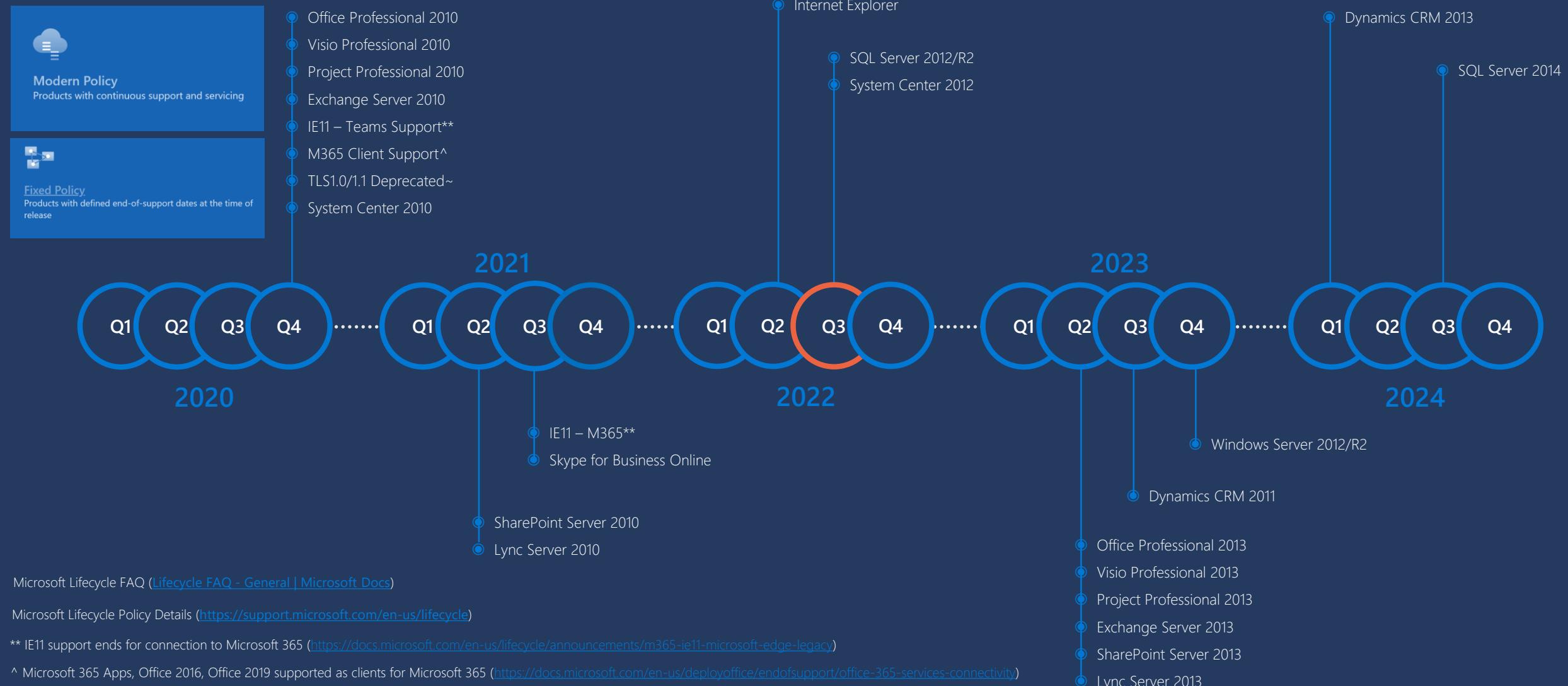
Login not working? Your organization may need to be onboarded to ESI. Please talk to your Microsoft Account Team.

# Product Lifecycles

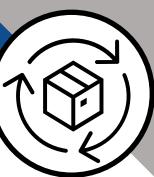




# End of Service Roadmap to 2024



# Microsoft Product Lifecycle: Modern Policy Products that will Retire



## Products under Modern Policy that will Retire in 2022

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

## Products under Modern Policy that will Retire in 2023

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

## Announcements

- ⌚ Deprecation of Basic Authentication (Basic Auth) in Exchange Online
- ⌚ Kaizala to be retired August 31, 2023
- ⌚ UPDATED: Windows Analytics retirement on January 31, 2020
- ⌚ Windows 8.1 end of support on January 10, 2023
- ⌚ System Center 2012/2012 R2 end of support on July 12, 2022
- ⌚ SQL Server 2012 and Windows Server 2012/2012 R2 end of support

- ⌚ Internet Explorer 11 desktop app support ended for certain versions of Windows 10
- ⌚ Windows Server Semi-Annual Channel retiring on August 9, 2022
- ⌚ Office 2013 ends support in one year
- ⌚ Support extended for Dynamics 365 for Customer Engagement Apps, v9 (on-premises)
- ⌚ Retirement of SQL Server 2019 Big Data Clusters

[See more >](#)

### Lifecycle data export

#### Export all products

Export lifecycle data for all products by clicking below:

[Export All Products](#)

# Microsoft Product Lifecycle: Modern Policy Reaching End of Servicing



## Products Release End of Servicing for 2022

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

## Products Release End of Servicing for 2023

<b>Products Moving to End of Servicing (Modern Policy)</b>	<b>End of Servicing Date</b>
<a href="#">Microsoft Endpoint Configuration Manager, Version 2107</a>	February 2, 2023
<a href="#">Dynamics 365 Business Central on-premises (Modern Policy), 2021 release wave 2, version 19.x</a>	April 12, 2023
<a href="#">Windows 10 Enterprise and Education, Version 20H2</a> <a href="#">Windows 10 IoT Enterprise, Version 20H2</a>	May 9, 2023
<a href="#">Windows 10 Home and Pro, Version 21H2</a>	June 13, 2023
<a href="#">Azure Dev Spaces</a>	October 31, 2023

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



## Products Reaching End of Support for 2022

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

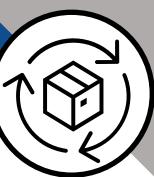
# Microsoft Product Lifecycle: Fixed Policy Reaching End of Support 2023



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

# Microsoft Product Lifecycle: Products moving to Extended Support



## Products Moving to Extended Support for 2022

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

## Products Moving to Extended Support for 2023

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



# Acquisitions and Announcements

# Microsoft Acquisitions - 2022



Company	Date	Description
<a href="#">Miburo</a>	06-14-2022	<a href="#">Miburo</a> will enhance Microsoft's Cybersecurity and Threat Analysis capabilities. The addition of Miburo will <b>enable Microsoft to expand its threat detection and analysis capabilities to address new cyber-attacks and shed light on the ways in which foreign actors use information</b> operations in conjunction with other cyber-attacks to achieve their objectives. Miburo is a leading <b>expert in the identification of foreign information operations</b> . Miburo's research teams <b>detect and attribute malign and extremist influence campaigns across 16 languages</b> . The combination of Microsoft and Miburo will help to stop foreign adversaries from threatening public and private sector customers and, in fact, the very foundations of our democracy.
<a href="#">Minit</a>	03-31-2022	<a href="#">Minit</a> currently <b>enables businesses to transform the way they analyze, monitor and optimize their processes</b> . Minit's solutions have helped businesses gain <b>deep insights into how processes run</b> , uncover root causes of operational challenges and help mitigate undesired process outcomes. This acquisition <b>will further empower Microsoft to help our customers digitally transform and drive operational excellence</b> by creating a complete picture of their business processes, enabling every process to be easily and automatically analyzed and improved. Customers will be able to <b>better understand their process data, uncover what operations look like in reality and drive process standardization and improvement across the entire organization to ensure compliance at every step</b> .
<a href="#">Oribi</a>	02-28-2022	Microsoft's LinkedIn will acquire <a href="#">Oribi</a> , an Israel based <b>marketing analytics company</b> , to further help customers, from marketers to recruiters, <b>gain actionable insights, make smarter decisions and drive business results</b> . The integration of LinkedIn and Oribi will <b>accelerate Microsoft's marketing attribution and codeless analytics capabilities</b> .
<a href="#">Activision Blizzard</a>	01-18-2022	Microsoft announced <b>plans to acquire Activision Blizzard Inc.</b> (Nasdaq: ATVI), a leader in game development and interactive entertainment content publisher. This <b>acquisition will accelerate the growth in Microsoft's gaming</b> business across mobile, PC, console and cloud and <b>will provide building blocks for the metaverse</b> . "The combination of Activision Blizzard's world-class talent and extraordinary franchises with Microsoft's technology, distribution, access to talent, ambitious vision and shared commitment to gaming and inclusion will help ensure our continued success in an increasingly competitive industry."

# Microsoft Acquisitions - 2021



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

# Microsoft Acquisitions - 2021



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



## Microsoft Acquisitions - 2020

Company	Date	Description
<a href="#">ZeniMax Media</a>	09-21-2020	<b>ZeniMax Media, the parent company of Bethesda Softworks</b> , one of the <b>largest privately held game developers and publishers in the world</b> . Creators of critically acclaimed and <b>best-selling gaming franchises including The Elder Scrolls, Fallout and many others</b> , Bethesda brings an <b>impressive portfolio of games, technology and talent</b> — as well as a track record of blockbuster commercial success — to Xbox.
<a href="#">Orions Systems</a>	07-07-2020	Orions Systems, a pioneer in the development <b>of large-scale, hybrid, smart vision systems focused on “human-in-the-loop” machine teaching</b> combined with <b>services that can adapt to running on a single device or scale to address large scale edge-to-cloud network topologies</b> . The Power Platform and Orions Systems is enabling intelligent retail spaces by leveraging observational data to unlock the full potential of customers, employees, and assets.
<a href="#">CyberX</a>	06-22-2020	CyberX will complement the existing <a href="#">Azure IoT security</a> capabilities and <b>extends to existing devices including those used in industrial IoT, Operational Technology and infrastructure scenarios</b> . With CyberX, customers can <b>discover their existing IoT assets, and both manage and improve the security posture of those devices</b> . CyberX, customers can see a digital map of thousands of devices across a factory floor or within a building and gather information about their asset profile and vulnerabilities,
<a href="#">ADRM Software</a>	06-18-2020	ADRM Software is a <b>leading provider of large-scale industry data models</b> , which are used by large companies worldwide as information blueprints. ADRM's robust industry data models have been built and refined over decades for business-critical analytics. <b>Together with Microsoft Azure, these capabilities will be delivered at scale</b> , enabling our customers to accelerate digital progress, and reduce risk in a variety of major initiatives.
<a href="#">Softomotive</a>	05-19-2020	<a href="#">Softomotive</a> currently helps more than 9,000 global customers seamlessly <b>automate business processes across legacy and modern desktop applications</b> . Together <b>with Power Automate, WinAutomation will provide customers additional options for RPA desktop authoring</b> so anyone can build a bot and automate Windows-based tasks.
<a href="#">Metaswitch Networks</a>	05-14-2020	<a href="#">Metaswitch Networks</a> , a leading provider of <b>virtualized network software and voice, data and communications solutions for 5G operators</b> .
<a href="#">Corp.Com</a>	04-07-2020	"To help in keeping systems protected we encourage customers to practice safe security habits when planning for internal domain and network names. We released a security advisory in June of 2009 and a security update that helps keep customers safe. In our ongoing commitment to customer security, we also acquired the Corp.com domain."
<a href="#">Affirmed Networks</a>	03-26-2020	<b>Affirmed Networks with its leadership in virtualized 5G mobile networks</b> . Affirmed Networks and Microsoft will play an important role in helping advance 5G and deliver new network solutions that offer step-change advancements in speed, cost and security. This combination of technology leaders will enable a host of new opportunities for businesses and society, <b>including autonomous vehicles, smart cities, virtual reality and a range of other smart industry use cases and services</b> .

# Microsoft Acquisitions - 2019



Company	Date	Description
Movere	10-21-2019	Movere accelerates cloud migrations. It increases business intelligence by accurately <b>presenting entire IT environments within a single day</b> , providing enterprises with the confidence they need to have <b>visibility and control of their environments regardless of platform, application or geography as organizations grow, change and digitally optimize</b> .
Semmle	09-18-2019	Semmle's revolutionary <b>semantic code analysis engine allows developers to write queries that identify code patterns in large codebases and search for vulnerabilities and their variants</b> . Semmle is <b>trusted by security teams at Uber, NASA, Microsoft, Google</b> , and has <b>helped find thousands of vulnerabilities in some of the largest codebases in the world</b> , as well as over 100 CVEs in open source projects to date.
JClarity	08-19-2019	The <b>leading contributor to the AdoptOpenJDK project</b> , to support their continued contributions to open source while <b>driving increased performance for Java workloads on Azure</b> . The team, formed by Java champions and data scientists with proven <b>expertise in data driven Java Virtual Machine (JVM) optimizations</b> , will help teams at Microsoft to leverage advancements in the Java platform.
PromotelQ	08-05-2019	The <b>leading provider of vendor marketing technology to online retailers and brands</b> . PromotelQ has pioneered the private marketplace approach to digital vendor marketing. PromotelQ's technology strategically complements Microsoft's current retail advertising offerings, and can enable retailers with a portfolio of technology solutions to modernize their e-commerce platforms and maximize their monetization opportunity. Retailers such as Kroger, Kohl's and Overstock.com — will continue to benefit from the PromotelQ platform and team.
BlueTalon	07-29-2019	A leading provider of <b>Unified Data Access Control solutions for modern data platforms</b> . BlueTalon works with leading Fortune 100 companies to eliminate data security blind spots and gain visibility and control of data. BlueTalon provides a customer-proven, data-centric solution for data access management and auditing across the diverse systems resident in modern data estates.
PullPanda^	06-17-2019	PullPanda^ <b>helps teams create more efficient and effective code review workflows on GitHub</b> . Better code reviews mean better code for software teams of all sizes, whether you work in open source or on a Fortune 500 team. PullPanda^ <b>gives teams a better way to manage reviews, reduce turnaround times, and ship code faster</b> .
Double Fine Productions	06-09-2019	Double Fine is <b>a beacon of creativity and spirit in game development for almost 20 years with classic games like 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> .

# THANK YOU