

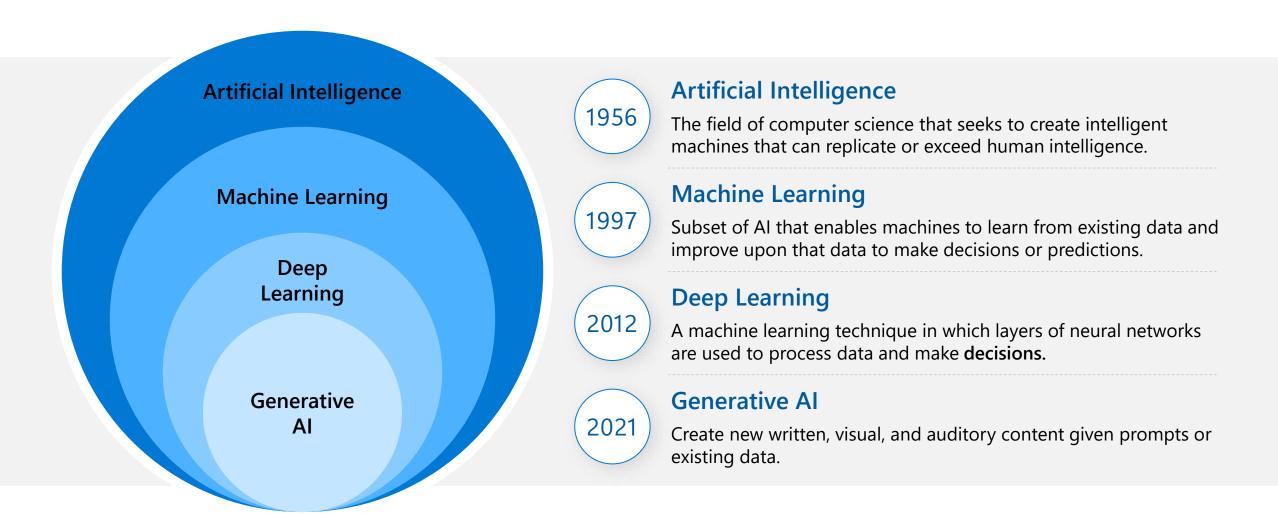
Aman Joneja & Sowmya Atukuri

Cloud Solution Architects

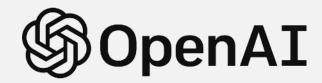
Agenda

- 1.Overview
- 2. Capabilities
- 3.Responsible AI FAQ
- 4.Demos
- 5.Under the hood

The journey continues with generative Al



Microsoft and OpenAl partnership



Ensure that artificial general intelligence (AGI) benefits humanity





Empower every person and organization on the planet to achieve more

Azure OpenAl Service – as of February 20, 2023

GPT-4, 4-Turbo and 3.5-Turbo

Language

GPT-4 Vision

Multi-Modal

Babbage and Davinci

Fine Tuning

DALL-E 3

Images

Whisper

Transcription & Translation

On Your Data

Azure AI Studio

Assistants

A copilot for every Microsoft Cloud experience

Microsoft 365 Copilot

Empower everyone with a copilot that works alongside you

Dynamics 365 Copilot

Specialized copilots for every role and function

Copilot in Power Platform

Imagine it, describe it, and Power Platform builds it

Microsoft Security Copilot

Defend at machine speed with Microsoft Security Copilot

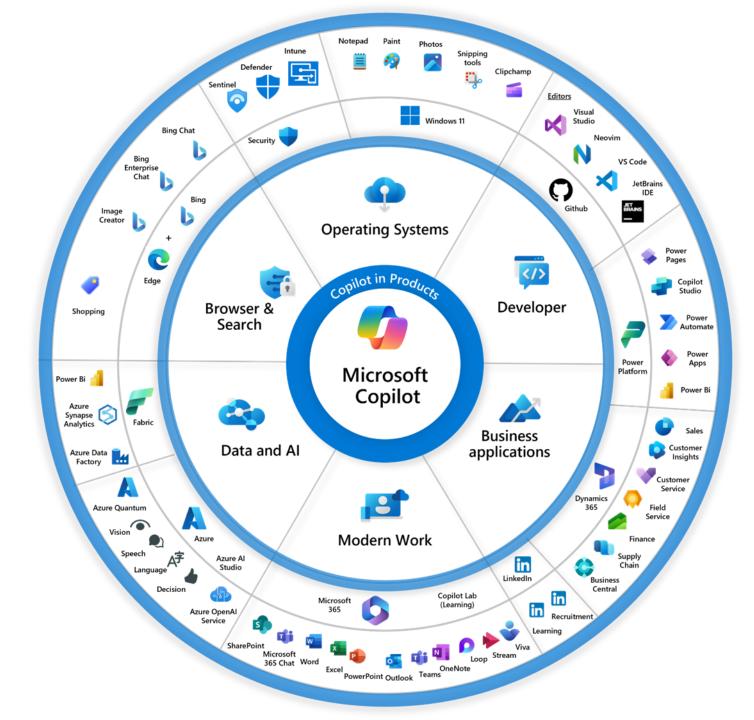
Windows Copilot

The first centralized Al assistance on a platform

GitHub Copilot

Increase developer productivity to accelerate innovation

A copilot for every Microsoft Cloud experience





Microsoft Copilot for Azure is an AI-powered tool simplifies how you design, operate, optimize and troubleshoot both apps and infrastructure from cloud to edge.

It leverages Large Language Models (LLMs), the Azure control plane, and insights about your Azure environment to help you work more efficiently.

Available initially in Azure portal. Expanding to Azure mobile app and CLI.



Using across the lifecycle



Design



Operate



Optimize



Troubleshoot



Generate deep insights instantly

Find personalized solutions for your workloads with an Al assistant that knows your environment.

Discover new cloud functionality

Ask Copilot questions using natural language to discover and utilize the full functionality of Azure services.

Do complex tasks faster

Optimize processes, resources, and workloads with Al orchestration and analysis.

Capabilities

- Understand your Azure environment
- Work smarter with Azure services
- Write and optimize the code
- From anywhere in the Azure portal, you can ask Copilot for Azure to explain about Azure concepts, services or offerings.
- Describe the problem, and Microsoft Copilot for Azure (preview) will provide some suggestions on how you might be able to resolve the issue.

Microsoft Copilot for Azure - Azure Environment

- Get resource information
 - Write a KQL query to list my VMs by OS
 - Sort them alphabetically
- Understand service health
 - Is there any Azure outage ongoing impacting me?
 - What is the status of the event with tracking ID {0}
- · Analyse, estimate, and optimize costs
 - Why did my cost spike on Nov 11th?
 - How can we reduce our costs?
 - Which resources are covered by savings plans?

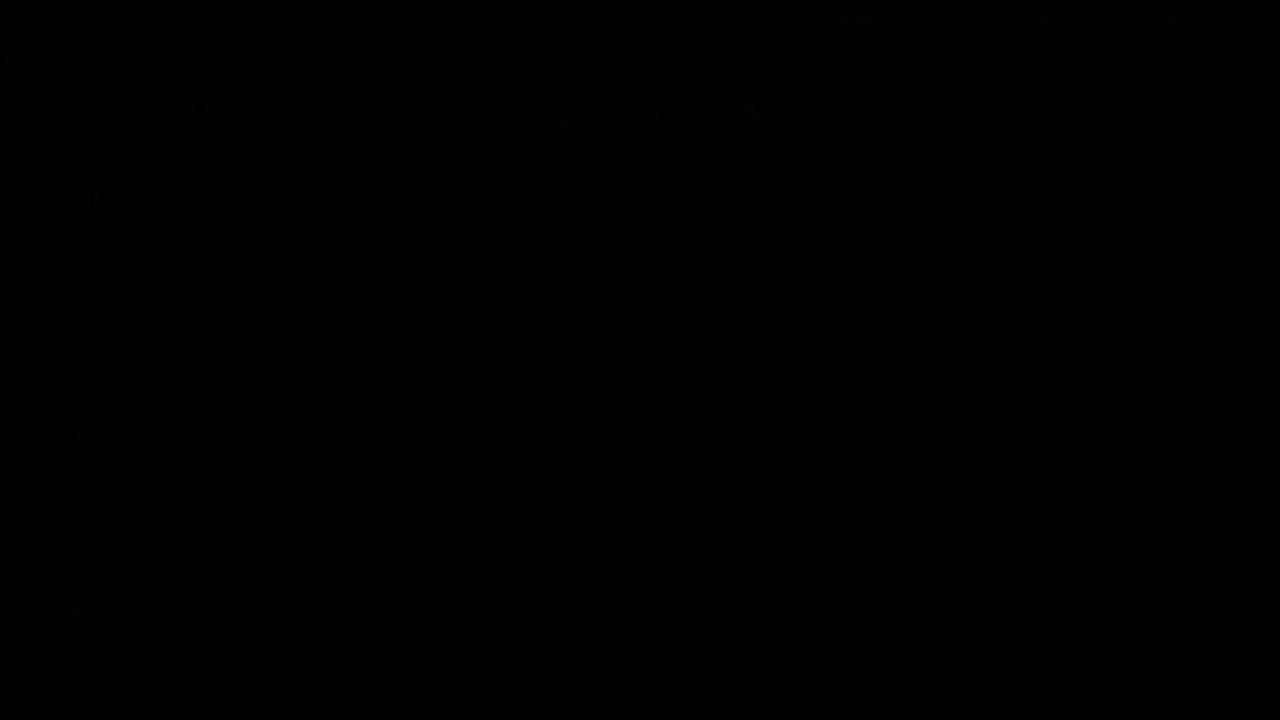
Microsoft Copilot for Azure - Azure Services

Deploy Virtual Machines effectively

- Help me create a cost-efficient VM
- How do I create a resilient virtual machine
- Which Virtual Machine size will best suit my requirements?

Build infrastructure and deploy workloads

- · Help me deploy a website on Azure
- · Can you give me comparison table for these options? Also include approximate cost.
- · I like this infrastructure. Give me an ARM template to deploy this.
- Can you explain this design in more detail?



Microsoft Copilot for Azure - Azure Services - Cont....

- · Get information about Azure Monitor metrics and logs
 - Show me container logs that include word 'error' for the last day for namespace 'xyz'
 - Check in logs which containers keep restarting
- Work smarter with your Azure Resources
 - Find any anomalies in my AKS clusters
 - Summarize my resource usage
- Secure and protect storage accounts
 - How can I prevent this storage account from being deleted?
 - Does this storage account follow security best practices?

Microsoft Copilot for Azure - Write Code

Generate Azure CLI scripts

- · I want to use Azure CLI to deploy AKS using a private service endpoint
- · I want to create a web app using Azure CLI

Author API Management policies

- · Generate a policy to remove a 'X-AspNet-Version' header from the response
- Generate a policy to configure rate limiting with 5 requests per second

· Generate Kubernetes YAML files

- Help me generate a Kubernetes YAML file for a "frontend" service using port 8080
- Generate a Kubernetes Ingress YAML file that routes traffic to my frontend and backend services based on hostnames.

Microsoft Copilot for Azure - Optimize & Troubleshoot

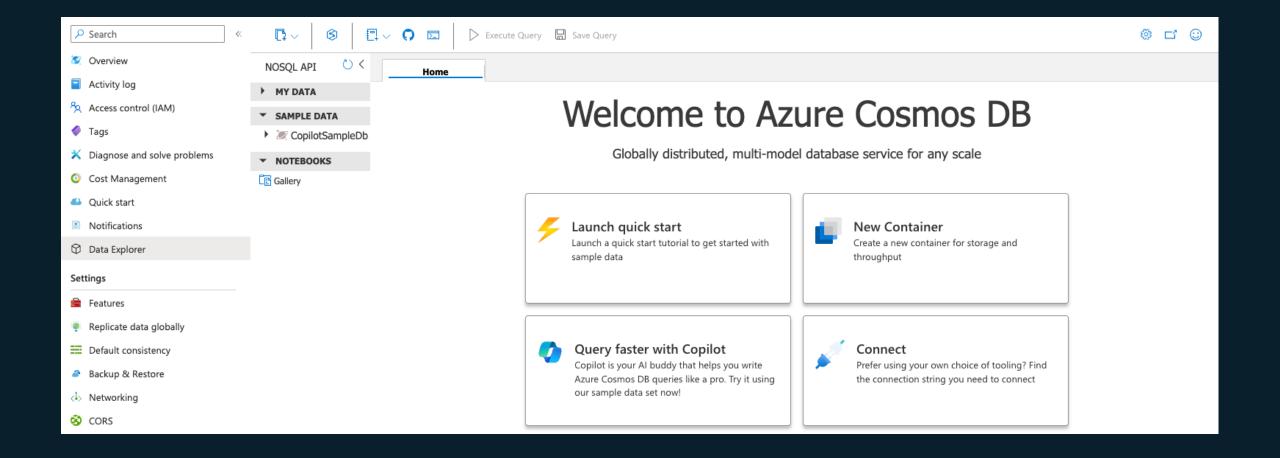
- Optimize your code
 - My app code is running slow
 - Show my code performance recommendations
 - Make my app faster with a code change
- · Troubleshoot your apps faster with App Service
 - · Take a memory dump
 - My web app is down
 - · Enable auto heal

Microsoft Copilot for Azure - Cosmos DB

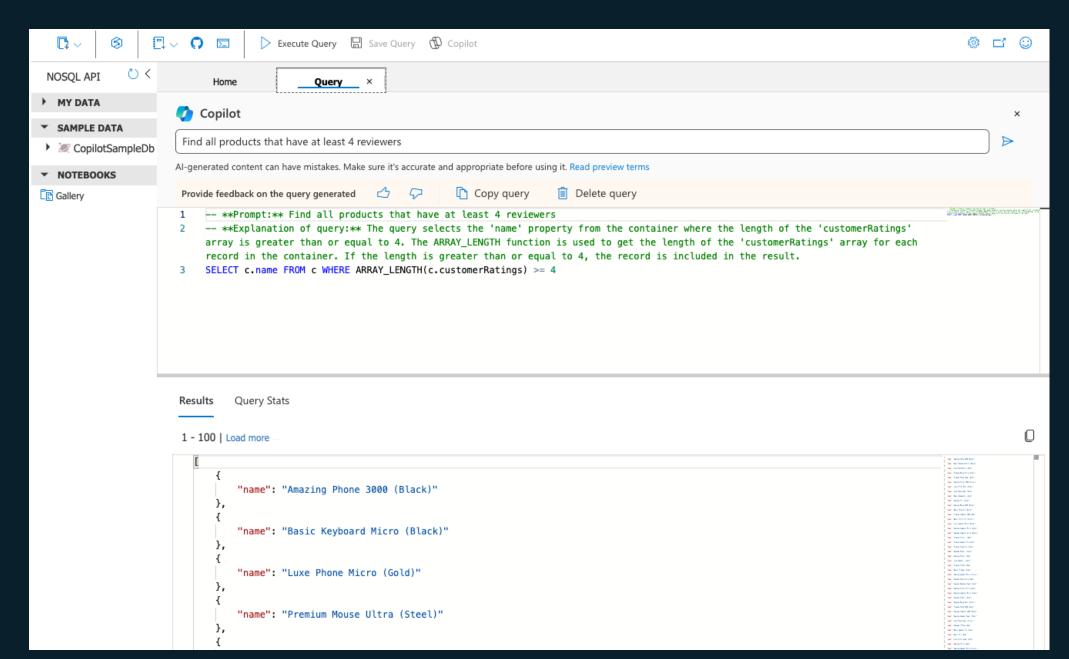
Generate a query

- · Show all products that have the word "ultra" in the name or description
- Count all the products, group by each category
- Show me all names and prices of products that reviewed by someone with a username that contains "Mary"

Cosmos DB Queries



Cosmos DB Queries



Responsible Al

- Are Microsoft Copilot for Azure's results reliable?
- How does Microsoft Copilot for Azure (preview) use data from my Azure environment?
- What data does Microsoft Copilot for Azure collect?
- What should I do if I see unexpected or offensive content?
- Do all Azure services have the same level of integration with Microsoft Copilot for Azure?

Under the hood



Copilot for Azure

Tooling

API

SDK

CLI

PowerShell

Data sources

Cost
Documentation
Logging
Monitoring

Governance

Policy

RBAC

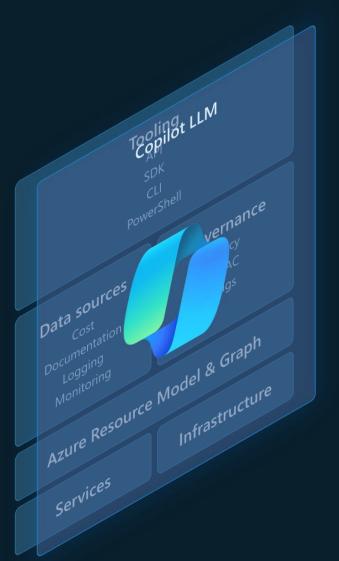
Tags

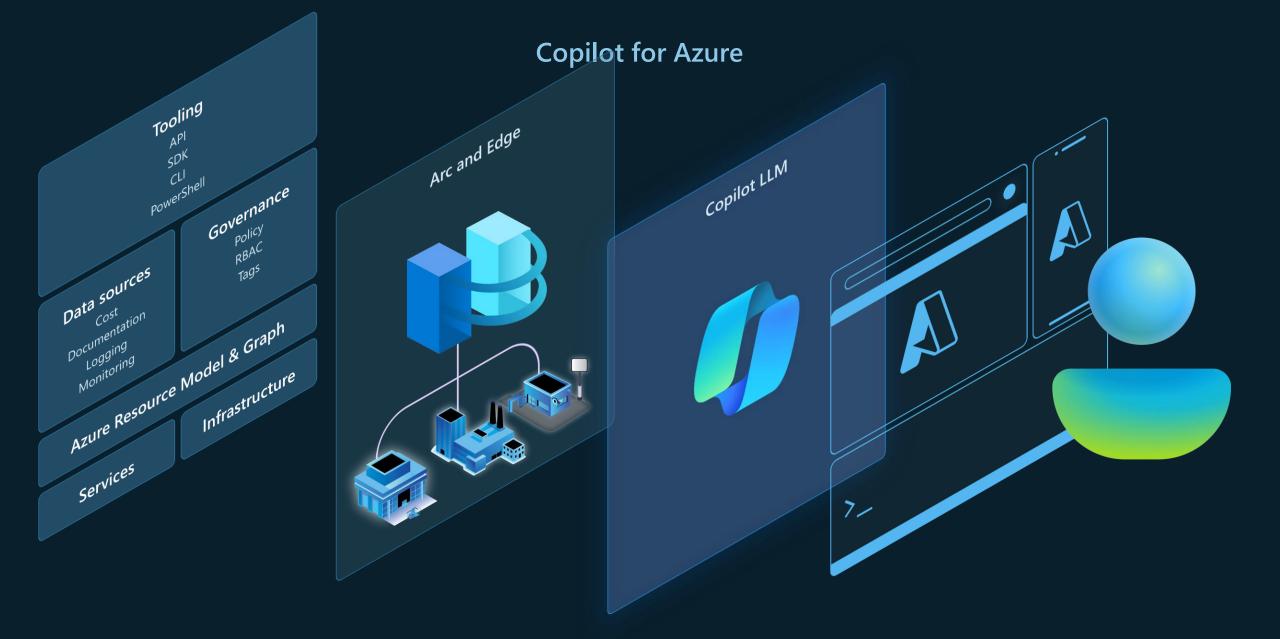
Azure Resource Model & Graph

Services

Infrastructure

Copilot for Azure

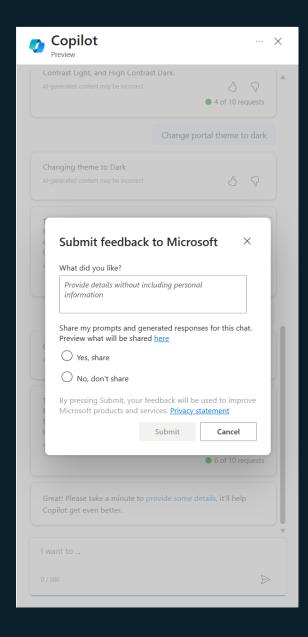


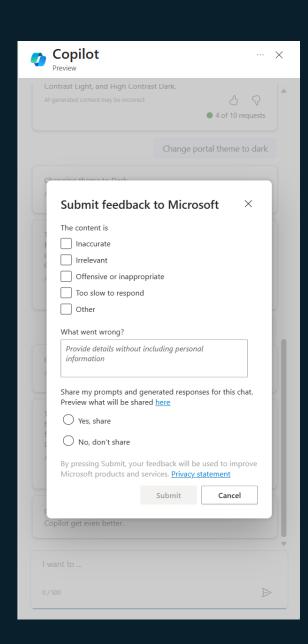


Azure Arc and Edge

- Edge Computing and Azure Arc serve complementary purposes, and their integration provides a powerful solution for managing resources across diverse environments.
- Azure Arc is a bridge that extends the Azure platform to help you build applications and services with the flexibility to run across datacenters, at the edge, and in multicloud environments.
- · Azure Edge enables you to process data locally on these edge devices or nearby servers.

Feedback for Co-Pilot





Resources

- Discussion
- Blog Post
- Learn how to sign-up
- Documentation



Please read all instructions carefully and complete form as instructed

Thank you for your interest in Microsoft Copilot for Azure. Please submit this form to register for approval to access and use limited public preview of Microsoft Copilot for Azure.

Limited access: Please visit <u>aka.ms/MicrosoftCopilotForAzureLimitedAccess</u> to learn more about limited access of Microsoft Copilot for Azure.

- Microsoft Copilot for Azure is only available to approved enterprise customers.
- Microsoft Copilot for Azure is only available to public cloud (no national clouds).
- Access to Microsoft Copilot for Azure would be for the entire tenant(s) that you will provide below.
- Microsoft Copilot for Azure is available only in English during the limited access public preview.
- Microsoft Copilot for Azure is available only in portal.azure.com
- Microsoft Copilot for Azure limited access public preview comes with no additional charge.

Possible causes for a denied application:

- 1) You are not an approved enterprise customer
- 2) Application submitted with personal email (Example: @gmail.com, @yahoo.com, @hotmail.com, etc.)

Updates about your onboarding request: Please add <u>maccount@microsoft.com</u>

and <u>azurecopilotpp@microsoft.com</u> to your Safe Senders list to ensure you receive all correspondence pertaining to your application. For any issues about the application process, please contact our support team at <u>azurecopilotpp@microsoft.com</u>.

Feedback Link: https://forms.office.com/r/j53u1DVcf9

Feedback QR:



Thank You