



## AZURE ANNOUNCEMENTS NEWSLETTER

May 20, 2022 – May 26, 2022

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Total Announcements: 64

## Azure Service: API Management

### General Availability

Easily and quickly secure your custom domain with a free certificate provisioned, managed, and automatically renewed by Azure API Management.

You can now effortlessly secure Azure API Management with an SSL certificate, which is provisioned and managed by Azure API Management. This feature is available in all tiers of Azure API Management at no cost.

Announcement: [https://docs.microsoft.com/azure/api-management/configure-custom-domain?tabs=custom?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/api-management/configure-custom-domain?tabs=custom?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/general-availability-managed-certificates-support-for-azure-api-management/>

### General Availability

Import existing GraphQL services as APIs in Azure API Management, leveraging all the existing benefits of API Management—including security, observability, and reduced latency—for their GraphQL APIs. You can also add GraphQL-specific features such as a query test console, query validation, field-based authorization, and query depth and size restriction.

With this update, you can:

Add and manage an existing GraphQL service as an API in Azure API Management.

Expose GraphQL APIs to consumers via the developer portal.

Secure GraphQL APIs by applying both existing access control policies and a policy to secure and protect against GraphQL-specific attacks.

Explore the schema and run test queries against the GraphQL APIs in the Azure and developer portals leveraging the industry standard, open-source GraphQL console.

Announcement: [https://docs.microsoft.com/azure/api-management/graphql-api?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/api-management/graphql-api?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/general-availability-graphql-passthrough-support-in-azure-api-management/>

### Preview Features

Synthetic GraphQL allows you to easily create a GraphQL API based on your existing HTTP (SOAP or REST) APIs. This allows you to quickly upgrade your API to support modern client application development without affecting your existing infrastructure.

With this availability, you can:

Change your existing APIs into GraphQL to support modern client application development. Build a GraphQL API from existing SOAP, REST, and other HTTP APIs.

Augment your existing GraphQL API with third party APIs such as Microsoft Graph, Dynamics, Shopify, and Zendesk.

Announcement: <https://azure.microsoft.com/services/api-management/#overview>

Documentation: <https://azure.microsoft.com/updates/public-preview-synthetic-graphql/>

## Azure Service: App Services

### General Availability

The landing zone accelerator is a combination of documentation and automation to help you deploy a reference enterprise scale deployment of Azure App Service on App Service Environment v3. The combination of documentation and deployable artifacts makes it easier to move enterprise applications from an on-premises environment to App Service.

Announcement: <https://techcommunity.microsoft.com/t5/apps-on-azure-blog/what-s-new-in-azure-app-service-at-build-2022/ba-p/3407584>

Documentation: <https://azure.microsoft.com/updates/general-availability-app-service-landing-zone-accelerator/>

### Preview Features

The Azure Migrate tool now offers additional capabilities that make it easier for you to move applications from on-premises environments to Azure App Service and Azure Kubernetes Service.

Azure App Service bulk migration capabilities are now in public preview through the Azure Migrate feature:

Discover and assess ASP.NET web apps in addition to categorizing which apps are ready for migration. Suggest a destination for migration and provide a guided content and configuration experience for ASP.NET web apps to Azure App Service.

Discover and migrate with Java Tomcat applications to App Service Linux and to Azure Kubernetes Service. Containerize your ASP.NET web apps and move them to either Windows Containers on App Service or to Azure Kubernetes Service.

Announcement: <https://techcommunity.microsoft.com/t5/apps-on-azure-blog/what-s-new-in-azure-app-service-at-build-2022/ba-p/3407584>

Documentation: <https://azure.microsoft.com/updates/public-preview-app-service-new-migration-capabilities/>

### Preview Features

Host your Google Remote Procedure Call (gRPC) apps on App Service. Google Remote Procedure Call uses the HTTP/2 protocol to streamline messaging between clients and back-end servers, providing an efficient way to connect services that require high-performance communication.

Announcement: <https://techcommunity.microsoft.com/t5/apps-on-azure-blog/what-s-new-in-azure-app-service-at-build-2022/ba-p/3407584>

Documentation: <https://azure.microsoft.com/updates/public-preview-app-service-google-remote-procedure-call-support/>

## Preview Features

Updates in WordPress on App Service for Linux provide better response times and improved security, delivered by capabilities including:

Support for Azure Blob storage to enhance page read/write times  
Improved caching and image compression  
Virtual network integration to help manage content in a secure configuration

Announcement: <https://techcommunity.microsoft.com/t5/apps-on-azure-blog/what-s-new-in-azure-app-service-at-build-2022/ba-p/3407584>

Documentation: <https://azure.microsoft.com/updates/generally-available-app-service-enhancements-for-wordpress-on-app-service-for-linux/>

## Azure Service: ARC

### General Availability

The landing zone accelerator provides best practices and automated reference implementations to improve your Azure Arc deployments. Increase agility by deploying cloud-native applications faster and at scale, across different environments, while strengthening your security and compliance posture.

Announcement: [https://docs.microsoft.com/azure/cloud-adoption-framework/scenarios/hybrid/enterprise-scale-landing-zone?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/cloud-adoption-framework/scenarios/hybrid/enterprise-scale-landing-zone?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-landing-zone-accelerator-for-azure-arc-enabled-kubernetes/>

## Azure Service: Azure Stack

### General Availability

An Azure Stack HCI solution is a hardware and software stack used to extend the Azure cloud to physical locations. The standard hardware configuration is optimized for scale and power. At Build 2022, we will announce the new single-node offering that provides additional options for business scenarios with different requirements.

The new single-node Azure Stack HCI fulfills growing hybrid infrastructure needs in remote locations while maintaining the innovation of native integration with Azure Arc. Specifically, this new configuration offers flexibility to deploy the stack in smaller spaces and with less processing needs, optimizing resources while still delivering quality and consistency.

Additional benefits of Azure Stack HCI single-node include:

Smaller Azure Stack HCI solutions for environments with physical space constraints or that don't require built-in resiliency, like retail stores and branch offices.

A smaller footprint reduces hardware and operational costs.

Solutions can be built to scale, ranging from single-node up to 16 nodes if needed.

Announcement: <https://techcommunity.microsoft.com/t5/azure-stack-blog/announcing-azure-stack-hci-support-for-single-node-clusters/ba-p/3408431>

Documentation: <https://azure.microsoft.com/updates/general-availability-azure-stack-hci-singlenode/>

## Azure Service: Backup

### General Availability

Today, we are announcing the general availability of backup for Write Accelerator enabled disks. These disks are widely used by Azure customers with M-Series Virtual Machines (VMs) to improve the I/O latency of writes against Azure Premium Storage. Until now, as part of preview, Azure Backup has offered backup support for such disks to enrolled customers. With this general availability announcement, this support is available to all customers who configure Azure Virtual Machine Backup with disks enabled with Write Accelerator. You can choose to configure selective disk feature to remove the backup of these disks as part of Azure Virtual Machine Backup.

Announcement: [https://docs.microsoft.com/azure/backup/backup-support-matrix-iaas?WT.mc\\_id=wwc-aces#vm-storage-support](https://docs.microsoft.com/azure/backup/backup-support-matrix-iaas?WT.mc_id=wwc-aces#vm-storage-support)

Documentation: <https://azure.microsoft.com/updates/wadiskbackup/>

### General Availability

Trusted launch is a seamless way to improve the security of generation 2 VMs. It protects against advanced and persistent attack techniques by combining technologies which can be independently enabled like secure boot and virtualized version of trusted platform module (vTPM). Azure Backup is announcing general availability of trusted launch VMs backup in all Azure regions where trusted launch Azure Virtual Machines are available. You will be able to configure the backup of your trusted launch Azure Virtual Machines through enhanced policy and enable backup through recovery services blade, manage blade, and create VM blade.

Announcement: [https://docs.microsoft.com/azure/backup/backup-support-matrix-iaas?WT.mc\\_id=wwc-aces#vm-compute-support](https://docs.microsoft.com/azure/backup/backup-support-matrix-iaas?WT.mc_id=wwc-aces#vm-compute-support)

Documentation: <https://azure.microsoft.com/updates/gatrustedlaunchazurevms/>

## Azure Service: Cognitive Services

### General Availability

Cognitive Service for Language has a couple of now generally available capabilities:

Custom named entity recognition allows you to build your own custom entity extractors by providing labelled examples of text to train models.

Custom text classification allows you to create custom classification models with your defined classes. Choose between single-label classification where you can label and predict one class for every document, or multi-label classification that allows you to assign or predict several classes per document.

Announcement: [https://docs.microsoft.com/azure/cognitive-services/language-service/whats-new?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/cognitive-services/language-service/whats-new?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-cognitive-service-for-language/>

### Preview Features

Azure AI is introducing two updates in preview to Azure Cognitive Services to help you deploy high-quality models as APIs and infuse language capabilities into your apps more efficiently and responsibly:

Azure OpenAI Service, an Azure Cognitive Service, is now available in limited access preview. Approved customers will be able to access 25 different models from OpenAI, including the GPT-3 base series (Ada, Babbage, Curie and DaVinci), Codex series and embedding models, with the enterprise capabilities of Azure. Azure OpenAI Service will help you enable new reasoning and comprehension capabilities for building cutting-edge applications for use cases such as writing assistance, code generation, and making sense of unstructured data. With features like fine-tuning and built-in responsible AI, you can also tailor the model to your specific needs and detect and mitigate harmful use.

Azure Cognitive Service for Language now offers summarization for documents and conversations, a new capability which helps you quickly surface key information in documents and contact center calls, such as reason for the call and resolution.

Announcement: <https://azure.microsoft.com/updates/public-preview-azure-cognitive-services-updates/>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-cognitive-services-updates/>



## Preview Features

Azure Applied AI Services has several new capabilities in public preview:

Azure Bot Service and Power Virtual Agents (PVA) are integrated to empower pro and citizen developers to build bots collaboratively. This integration now will go a step further; Power Virtual Agents will be incorporating additional Azure Bot Service Composer capabilities such as a new authoring canvas, rich responses, event-driven and contextual triggers as well as new telephony channels to further cater to pro developers.

Azure Form Recognizer has new capabilities that unlock new document processing scenarios such as streamlining patient check-in and vaccine verification with insurance card and vaccine card prebuilt models. Added layout capabilities for paragraphs, headers, and titles enable precise text extraction.

Azure Metrics Advisor's new auto-tuning capability enables you to customize the service to surface and personalized anomalies. Through the guided experience, you provide detection preferences, such as level of sensitivity and anomaly pattern, to tailor the model on the back end. You can quickly evaluate the effectiveness of the configuration with the estimate generated by running the customized model through historical data. The service then suggests an alert rule that can be further tailored for mission-critical notifications.

Announcement: <https://azure.microsoft.com/updates/public-preview-azure-applied-ai-services-enhancements/>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-applied-ai-services-enhancements/>

## Azure Service: Communications Services

### General Availability

Save time and reduce complexity for utilizing Azure Communication Services mobile UI library which provides production ready UI components for mobile apps.

This release includes support for 13 languages, accessibility for UI components, and the ability to view shared screen content—including pinch-to-zoom, which is a key feature for mobile users.

Announcement: <https://azure.microsoft.com/services/communication-services/>

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-communication-services-mobile-ui-library/>

### General Availability

The Azure Communication Services sample app builder helps you build and deploy a sample application for virtual appointments in a few minutes without coding, using the Azure Portal. These experiences allow you to create a company-branded experience for customers, while employees can use their organization's existing Teams client experience to join scheduled appointments.

Announcement: <https://azure.microsoft.com/updates/generally-available-azure-communication-services-sample-app-builder-and-microsoft-teams-support/>

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-communication-services-sample-app-builder-and-microsoft-teams-support/>

### Preview Features

If you are building communications-enabled applications using Azure Communication Services, you can now add email notifications to your apps. This includes attributes such as account signups, password resets, service outage alerts, purchase confirmations, and more. Software development kits are available for .NET and Javascript.

Announcement: <https://azure.microsoft.com/services/communication-services/>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-communication-services-email/>

### Preview Features

The call metrics tool for Azure Communication Services helps you inspect the state of the call client, to debug or monitor your solution.

Announcement: <https://azure.microsoft.com/updates/public-preview-call-metrics-tool-for-azure-communication-services/>

Documentation: <https://azure.microsoft.com/updates/public-preview-call-metrics-tool-for-azure-communication-services/>

## Region Updates

In addition to the features and capabilities of voice, video calling, and messaging, you can now benefit from the following that are unique to the US Government cloud:

Personal data is logically segregated from customer content in the commercial Azure cloud. Your content contained in Azure Communication Services resources is stored within the United States. Access to your content is restricted to screened Microsoft personnel. Azure Communication Services complies with certifications and accreditations that are required for US Public Sector customers.

Announcement: <https://azure.microsoft.com/updates/public-preview-azure-communication-services-apis-in-us-government-cloud/>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-communication-services-apis-in-us-government-cloud/>

## Azure Service: Container Apps

### General Availability

Azure Container Apps is a managed serverless container service which offers an ideal platform for application developers who want to run microservices in containers without managing infrastructure.

Write code using your preferred programming language or framework and build microservices with full support for Distributed Application Runtime (Dapr). Scale dynamically based on HTTP traffic or events powered by Kubernetes Event-Driven Autoscaling (KEDA).

Container Apps is built on a foundation of powerful open-source technology. Behind the scenes, every container app runs on Azure Kubernetes Service, with KEDA, Dapr, and Envoy baked in. This lets you perform modern application lifecycle tasks such as application upgrades, traffic shifting, and versioning ready-to-run for teams of every skillset.

Announcement: <https://azure.microsoft.com/services/container-apps>

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-container-apps/>

## Azure Service: CosmosDB

### General Availability

The Azure Cosmos DB Python SDK async IO support capability can improve Python application performance and responsiveness by running tasks concurrently rather than one after the other. Now you can allow your Python application to take advantage of time that would normally be spent waiting for an IO response to run other tasks. This new capability can also benefit data scientists, data engineers, and data analysts that use Python to read or manipulate data in Azure Cosmos DB.

Announcement: <https://github.com/Azure/azure-sdk-for-python/tree/main/sdk/cosmos/azure-cosmos>

Documentation: <https://azure.microsoft.com/updates/general-availability-azure-cosmos-db-python-sdk-async-io-support/>

### Preview Features

Azure Cosmos DB introduces several new features to help you achieve the best database scalability and performance, including:

Increased serverless container capacity to 1 TB (increased from 50 GB)

Hierarchical partition keys

Burst capacity for handling traffic spikes by taking advantage of unused throughput

Partition merge to configure the optimal database partition layout

Ability to redistribute throughput capacity across partitions for better performance

Announcement: [https://docs.microsoft.com/azure/cosmos-db/serverless?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/cosmos-db/serverless?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-enhanced-elasticity-features-for-azure-cosmos-db/>

### Preview Features

The API for MongoDB now offers a built-in role-based access control (RBAC) that allows you to authorize your data requests with a fine-grained, role-based permission model. Users and roles residing within your database and can be managed using the Azure CLI, Azure PowerShell, or Azure Resource Manager. With this feature, you can audit each of the user's actions via the Azure Cosmos DB diagnostic logs. Using this role-based access control (RBAC) allows you access with more options for control, security, and auditability of your database account data.

Announcement: [https://docs.microsoft.com/azure/cosmos-db/mongodb/how-to-setup-rbac?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/cosmos-db/mongodb/how-to-setup-rbac?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-cosmos-db-api-for-mongodb-data-plane-rbac/>

## Azure Service: Database for MySQL

### General Availability

Tier 1 workloads that require a higher number of vCores and memory can now be executed on Azure Database for MySQL – Flexible Server with the new 80 vCore Business Critical compute option that offers up to 80 vCores and 504 GiB of memory. The 80 vCore compute will be available only under the Business Critical service tier and will be leveraging the Esv4-series compute series, which runs on the 3rd Generation Intel® Xeon® Platinum 8370C (Ice Lake) or the Intel® Xeon® Platinum 8272CL (Cascade Lake). The Business Critical tier is best for workloads with high-performance transactional or analytical applications.

Announcement: [https://docs.microsoft.com/azure/mysql/flexible-server/concepts-compute-storage?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/mysql/flexible-server/concepts-compute-storage?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-database-for-mysql-flexible-server-80-vcore-business-critical/>

### General Availability

The Azure Database for MySQL – Flexible Server Memory Optimized service tier is now called Business Critical. This service tier is equipped with better features and functionality and is best suited for tier 1 production workloads with high-performance transactional or analytical applications. The Business Critical service tier allows you to achieve a 1.5x performance improvement over Single Server on the open source community MySQL. Your data is always secured and compliant with the latest minor and major version upgrades every 6 months. With the Business Critical tier, you can scale compute up to 96 vCores, 672GB Memory, and 48K IOPs.

Announcement: [https://docs.microsoft.com/azure/mysql/flexible-server/concepts-monitoring?WT.mc\\_id=wwc-aces#monitor-burstable-credits](https://docs.microsoft.com/azure/mysql/flexible-server/concepts-monitoring?WT.mc_id=wwc-aces#monitor-burstable-credits)

Documentation: <https://azure.microsoft.com/updates/general-availability-azure-database-for-mysql-flexible-server-high-performance-service-tier/>

## Azure Service: Functions

### General Availability

The Kafka extension for Azure Functions enables you to detect and respond to real time messages streaming into Kafka topics or write to a Kafka topic through the output binding. You can now focus on your Azure Function's logic without worrying about the event-sourcing pipeline or maintaining infra to host the extension. This extension is supported when hosting functions in the Premium plan, enabling it to elastically scale and trigger on Kafka messages.

Kafka extension built for Azure Functions can be deployed as containers running in Kubernetes and scale using KEDA (Kubernetes-based Event Driven Autoscaling).

Announcement: [https://docs.microsoft.com/azure/azure-functions/functions-bindings-kafka?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-functions/functions-bindings-kafka?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-functions-kafka-trigger-support/>

### General Availability

New Azure Functions projects will now default to using the latest extensions. For Java, JavaScript, Powershell, and Python apps, extension bundles will default to the latest v3 version. For .NET apps, updated versions of extension NuGet packages will be referenced.

Announcement: [https://docs.microsoft.com/azure/azure-functions/functions-bindings-register?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-functions/functions-bindings-register?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-updated-extension-defaults-for-new-azure-functions-projects/>

### General Availability

Dynamic concurrency automatically determines optimal per trigger concurrency settings for your workloads and adjusts as your load patterns change over time. Using dynamic concurrency can provide the following benefits to your function apps:

- Increased throughput
- Simplified concurrency configuration
- Dynamic adjustments to changing load patterns
- Instance health protection

This feature currently supports Service Bus, Azure Blob, and Azure Queue triggers.

Announcement: [https://docs.microsoft.com/azure/azure-functions/functions-concurrency?WT.mc\\_id=wwc-aces#dynamic-concurrency-preview](https://docs.microsoft.com/azure/azure-functions/functions-concurrency?WT.mc_id=wwc-aces#dynamic-concurrency-preview)

Documentation: <https://azure.microsoft.com/updates/generally-available-dynamic-concurrency-in-azure-functions/>

## Preview Features

Durable functions now support running in the isolated .NET worker process in Azure Functions. You can now use the isolated .NET worker process to develop your applications.

Announcement: [https://docs.microsoft.com/azure/azure-functions/dotnet-isolated-process-guide?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-functions/dotnet-isolated-process-guide?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-durable-functions-support-for-isolated-net-worker-process/>

## Preview Features

Apps can now target .NET Framework when running in the isolated process mode in Azure Functions v4. This allows apps with .NET Framework dependencies to explore the latest versions of Azure Functions.

Apps built using this capability will follow the same patterns as any isolated .NET worker project in Functions, but they will specify .NET Framework 4.8 as the target framework. This is not intended to support production workloads, at this time, and some experiences may be limited.

Announcement: [https://docs.microsoft.com/azure/azure-functions/dotnet-isolated-process-guide?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-functions/dotnet-isolated-process-guide?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-functions-net-framework-support-in-the-isolated-worker-model/>

## Preview Features

You can connect to Azure storage with durable functions using the managed identity of the Function app instead of embedding secrets in the connection string. The identity is managed by the Azure platform and does not require you to provision or rotate any secrets.

Announcement: [https://docs.microsoft.com/azure/app-service/overview-managed-identity?tabs=portal%2Chttp?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/app-service/overview-managed-identity?tabs=portal%2Chttp?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-durable-functions-support-for-managed-identity-for-azure-storage/>

## Azure Service: IoT Central

### General Availability

You can now easily manage and organize your dashboards in a logical way using the new catalog experience. In addition to viewing the dashboards in a nicely formatted list with additional metadata, you will now be able to search and sort them based on the name. You will also be able to easily mark your frequently used dashboards as favorites, so they appear at the top of the list. This will also help when trying to use Azure IoT Central dashboards on a small form factor device.

Announcement: [https://docs.microsoft.com/azure/iot-central/core/howto-manage-dashboards?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/iot-central/core/howto-manage-dashboards?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/iotc-dashboards-catalog/>

## Azure Service: IoT Hub

### Updated Features

IoT Hub will be updating the underlying infrastructure and will go through an internal service update to improve reliability for device connections. The update will change the underlying DNS record for IoT Hub, resulting in a change of the IP address.

This update will not have any impact to you if you don't take dependency on the static IP address. To ensure you are not impacted by this service upgrade please follow our best practices regarding IP addresses and use Fully Qualified Domain Name (FQDN) or Service Tags.

Announcement: [https://docs.microsoft.com/azure/iot-hub/iot-hub-understand-ip-address?WT.mc\\_id=wwc-aces#best-practices](https://docs.microsoft.com/azure/iot-hub/iot-hub-understand-ip-address?WT.mc_id=wwc-aces#best-practices)

Documentation: <https://azure.microsoft.com/updates/iot-hub-ip-address-change-notification/>



## Azure Service: Kubernetes Service

### General Availability

Customizing your node configuration allows you to configure or tune your operating system (OS) settings or the kubelet parameters to match the needs of the workloads.

When you create an AKS cluster or add a node pool to your cluster, you can customize a subset of commonly used OS and kubelet settings. These customizations allow you to choose where you may want to change default values in situations where workloads have certain performance demands on the kubelet or OS.

Announcement: [https://docs.microsoft.com/azure/aks/custom-node-configuration?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/aks/custom-node-configuration?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-custom-node-configuration-on-aks/>

### General Availability

Azure Container Networking Interface (CNI) support for dynamic IP allocation and defining a different subnet for agent nodes and pods in Azure Kubernetes Service (AKS) is now generally available.

This enables IPs to be allocated dynamically when a pod needs it, instead of pre-allocating a subset of IPs to each agent node. This also reduces IP usage as compared to a static allocation.

Dynamic IP allocation allows you to setup clusters that consume fewer IPs. You can segment incoming traffic from pods and nodes separately and add new subnets to increase the pod CIDR.

Announcement: [https://docs.microsoft.com/azure/aks/configure-azure-cni?WT.mc\\_id=wwc-aces#dynamic-allocation-of-ips-and-enhanced-subnet-support-preview](https://docs.microsoft.com/azure/aks/configure-azure-cni?WT.mc_id=wwc-aces#dynamic-allocation-of-ips-and-enhanced-subnet-support-preview)

Documentation: <https://azure.microsoft.com/updates/generally-available-dynamic-ip-allocation-and-enhanced-subnet-support-in-aks/>

### General Availability

Leverage a rich set of first party solutions on AKS using the cluster extension feature. This feature builds on top of the packaging components of Helm by providing an Azure Resource Manager driven experience for installation and lifecycle management of different Azure service capabilities on the Kubernetes cluster.

The cluster extensions can be enabled using Azure CLI and allows you to accelerate your deployments on AKS by leveraging a broad range of services.

Announcement: <https://azure.microsoft.com/updates/generally-available-aks-cluster-extensions/>

Documentation: <https://azure.microsoft.com/updates/generally-available-aks-cluster-extensions/>

## General Availability

The subnet per node pool feature allows for use of multiple subnets in the same virtual network within an AKS cluster by assigning new node pools to different subnets. This allows for expansion of cluster address space over time as cluster size increases.

Announcement: [https://docs.microsoft.com/azure/aks/configure-azure-cni?WT.mc\\_id=wwc-aces#dynamic-allocation-of-ips-and-enhanced-subnet-support-preview](https://docs.microsoft.com/azure/aks/configure-azure-cni?WT.mc_id=wwc-aces#dynamic-allocation-of-ips-and-enhanced-subnet-support-preview)

Documentation: <https://azure.microsoft.com/updates/generally-available-subnet-per-node-pool/>

## New Features

The Center for Internet Security (CIS) Ubuntu baseline is now available for AKS Ubuntu worker nodes. This security configuration is based on the Azure Linux security baseline which aligns with CIS benchmark. With this baseline, you can now attest to the state of CIS compliance for your Ubuntu worker nodes.

Announcement: [https://docs.microsoft.com/azure/aks/cis-ubuntu?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/aks/cis-ubuntu?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/cis-benchmark-for-linux-containers/>

## New Features

Announcing Draft 2, a new version of the open-source project that makes it easier for developers to build applications that run on Kubernetes. Draft was created for developers. Using Draft, developers can create a Dockerfile, Kubernetes manifests, Helm chart, or Kustomize configurations for their application. Draft can also generate a GitHub Action workflow file to easily build and deploy applications onto any Kubernetes cluster.

Announcement: <https://github.com/Azure/draft>

Documentation: <https://azure.microsoft.com/updates/draft-2-an-opensource-project-for-developers-building-apps-on-kubernetes/>

## New Features

As an Azure Kubernetes Service (AKS) user, you must specify the exact patch number in your setup. With the Kubernetes version alias feature release, we are simplifying setup for you so that you don't need to specify patch number. For example, you can specify Kubernetes 1.20 instead of Kubernetes 1.20.1. By not specifying the exact patch number, you will automatically be placed on the highest patch version of the minor version you selected.

Announcement: [https://docs.microsoft.com/azure/aks/supported-kubernetes-versions?tabs=azure-cli?WT.mc\\_id=wwc-aces#alias-minor-version](https://docs.microsoft.com/azure/aks/supported-kubernetes-versions?tabs=azure-cli?WT.mc_id=wwc-aces#alias-minor-version)

Documentation: <https://azure.microsoft.com/updates/generally-available-alias-minor-version-support-in-aks/>

## Preview Features

With the release of ARM64 agent node support in AKS, you can now create ARM64 Ubuntu agent nodes as well as mix Intel and ARM architecture nodes within a cluster. You can reduce the cost of running Kubernetes workloads and choose CPU/Memory configuration in addition to architecture.

Announcement: <https://azure.microsoft.com/blog/now-in-preview-azure-virtual-machines-with-ampere-altra-armbased-processors/>

Documentation: <https://azure.microsoft.com/updates/public-preview-arm64-agent-node-support-in-aks/>

## Preview Features

To deliver the best experience and performance when running business critical stateful workloads on AKS, we are introducing replica mounts on Azure Disk persistent volumes which automatically pre-creates replica attachments to ensure that your volume will be rapidly available when your pods failover between cluster nodes. Replica mounts are tightly integrated with Kubernetes, to optimize pod placement, and maximize uptime for stateful applications. Along with replica mounts, the latest version of the Azure Disk Container Storage Interface (CSI) driver provides the ability to fine tune performance and increased reliability at scale.

Announcement: [https://microsoft.qualtrics.com/jfe/form/SV\\_4Za7o3NUCEA9To2](https://microsoft.qualtrics.com/jfe/form/SV_4Za7o3NUCEA9To2)

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-disk-csi-driver-v2-in-aks/>

## Preview Features

KEDA is a Kubernetes-based Event Driven Autoscaler. With KEDA, you can drive the scaling of any container in Kubernetes based on the number of events needing to be processed.

KEDA can be added to your Azure Kubernetes Service (AKS) cluster by enabling the KEDA add-on using the Azure CLI. The add-on provides a fully supported installation of KEDA that is integrated with AKS.

Announcement: [https://docs.microsoft.com/cli/azure/aks?view=azure-cli-latest?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/cli/azure/aks?view=azure-cli-latest?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-keda-addon-for-aks/>

## Preview Features

Web app routing is the easiest way to get your web application up and running in AKS securely while removing the complexity of ingress controller, certificate, and DNS management all while constructing a solid foundation that enterprises can utilize as their demands grow.

Web app routing offers a managed ingress controller powered by NGINX that you can use without restrictions and integrates out of the box with open service mesh (OSM) to secure intra-cluster communications.

Announcement: [https://docs.microsoft.com/cli/azure/aks?view=azure-cli-latest?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/cli/azure/aks?view=azure-cli-latest?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-web-application-routing-addon-for-azure-kubernetes-service-aks/>

## Preview Features

Start from source code and get a non-containerized application deployed to a Kubernetes cluster through Draft, the open-source project that streamlines Kubernetes development. Draft will be integrated with AKS through the Azure CLI, Azure Portal, and Visual Studio Code. Using Draft, you can generate a Dockerfile, Kubernetes manifests, Helm chart or Kustomize configurations, and automate CI/CD via GitHub Actions.

Announcement: [https://docs.microsoft.com/azure/aks/draft?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/aks/draft?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-draft-extension-for-azure-kubernetes-service-aks/>

## Preview Features

Windows Server 2022 provides new features and significant improvements compared to Windows Server 2019.

With this new public preview feature, Windows Server 2022 is now supported on AKS. Among other improvements related to security, Windows Server 2022 also provides several platform improvements for Windows Containers and Kubernetes.

For customers migrating their container workloads to WS2022, they can now orchestrate these through AKS.

Announcement: [https://docs.microsoft.com/azure/aks/learn/quick-windows-container-deploy-cli?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/aks/learn/quick-windows-container-deploy-cli?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-windows-server-2022-host-support-in-aks/>

## Azure Service: Machine Learning

### General Availability

With managed online endpoints, you will have a fully managed infrastructure by specifying the VM instance type and scale settings. You can also try the safe rollout of a model using blue/green deployment. With managed batch endpoints, you can speed up your model deployment with no-code model deployment with MLflow, flexible input data sources, configurable output location, and the managed cost with autoscaling compute.

Additionally, the Command Line Interface v2 general availability allows you to participate in the machine learning lifecycle without needing to learn specific programming languages.

Announcement: <https://techcommunity.microsoft.com/t5/ai-machine-learning-blog/announcing-managed-endpoints-in-azure-machine-learning-for/ba-p/2366481>

Documentation: <https://azure.microsoft.com/updates/generally-available-azure-machine-learning-managed-endpoints-and-command-line-interface-v2/>

### Preview Features

Azure Machine Learning's Responsible AI (RAI) dashboard, now in preview, is a new feature that helps developers and data scientists implement Responsible AI easily. The dashboard brings together multiple capabilities such as data explorer, fairness, model interpretability, error analysis, counterfactual and causal inference analysis, which help developers debug their models and make more informed data-driven decisions. In addition, Azure Machine Learning now offers a Responsible AI scorecard to summarize model performance and insights, helping technical and non-technical audiences understand the impact of applying Responsible AI.

Additional preview updates:

AutoML features include support for natural language processing and image tasks, generation of models' training codes, and enhancements for product integration and Machine Learning Operations (MLOps).

The Python SDK v2 simplifies the developer experience.

RStudio is one of the most popular integrated development environments among R developers for machine learning and data science projects. Azure Machine Learning now features a custom application that sets up RStudio Workbench into your Azure Machine Learning environment when an RStudio Workbench license key is provided. RStudio Workbench also provides access to other development environments, including Jupyter Notebooks and VSCode.

Announcement: <https://techcommunity.microsoft.com/t5/ai-machine-learning-blog/responsible-ai-dashboard-and-scorecard-in-azure-machine-learning/ba-p/3391068>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-machine-learning-updates/>

## Azure Service: Marketplace

### Preview Features

NGINX for Azure is a natively integrated software as a service (SaaS) solution with advanced traffic management and monitoring. The Azure integration enables ease of use with provisioning and configuration in a couple steps through the Azure portal. Leverage advanced traffic management features, such as JSON Web Token (JWT) authentication and active health checks, with built-in security integrations like Azure Key Vault for SSL/TLS certificate management. You can purchase this solution through the Azure Marketplace, receive a unified bill for all services you use on Azure, and leverage existing enterprise agreements.

Announcement: <https://www.nginx.com/blog/introducing-f5-nginx-for-azure-load-balancing-available-natively-as-saas-offering-on-microsoft-azure/>

Documentation: <https://azure.microsoft.com/updates/public-preview-nginx-for-azure/>

## Azure Service: Monitor

### Preview Features

There's always some degree of noise coming from "benign" failures in large distributed applications. We have added an Intelligent view on the application map feature that uses patented AIOPS machine learning models to guide you to the root cause of the issue being investigated. The map now offers actionable insights by recommending which node to node edges need further investigation.

Try it out by enabling the Intelligent view toggle and optionally change the sensitivity of the detections.

Announcement: [https://docs.microsoft.com/azure/azure-monitor/app/app-map?tabs=net?WT.mc\\_id=wwc-aces#understanding-cloud-role-name-within-the-context-of-the-application-map](https://docs.microsoft.com/azure/azure-monitor/app/app-map?tabs=net?WT.mc_id=wwc-aces#understanding-cloud-role-name-within-the-context-of-the-application-map)

Documentation: <https://azure.microsoft.com/updates/public-preview-aiops-powered-intelligent-view-in-application-maps/>

### Preview Features

The new ContainerLogv2 schema offers a streamlined querying experience, reducing the data to a single table as well as the number of required join operations. Some benefits include:

Spend less time writing and editing KQL with the reduced query complexity.

Troubleshoot your container logs faster with improved queries.

Save on cost with a reduced logging footprint (up to 10% reduction in table size).

Announcement: [https://docs.microsoft.com/azure/azure-monitor/containers/container-insights-logging-v2?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-monitor/containers/container-insights-logging-v2?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-containerlogv2-schema-in-azure-monitor-container-insights/>

### Preview Features

Azure Monitor application insights is a cloud native application monitoring offering which enables you to observe failures, bottlenecks, and usage patterns to improve application performance and effectiveness. JavaScript web snippet auto-injection makes it easier to onboard to application insights usage experiences, allowing you to understand user behavior and pinpoint performance issues in the browser. Customers monitoring node.js applications can take advantage of this new capability by upgrading to application insights node.js SDK version 3.1 or later and setting the configuration 'enableAutoWebSnippetInjection' to 'true'.

Announcement: <https://github.com/microsoft/ApplicationInsights-node.js#automatic-web-snippet-injectionpreview>

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-monitor-application-insights-javascript-web-snippet-autoinjection-for-nodejs/>

## Preview Features

Today we are introducing a new way to view and manage Azure Log Analytics Table metadata from the Azure portal. View and edit table properties, that until this point were accessible only from APIs, with new UI and directly from the Azure portal in the Log Analytics workspaces.

The Tables (preview) menu entry of Log Analytics workspaces allows you to:

View the list of workspace's tables, with their type (Azure table \ Custom table \ Search results \ Restored logs), plan (Analytics \ Basic) and retention properties (interactive retention, archive period and total retention period)

Create a new table

Delete a table

Manage specific table and edit its properties

Announcement: <https://techcommunity.microsoft.com/t5/azure-observability-blog/what-s-new-in-azure-monitor-build-2022/ba-p/3422384>

Documentation: <https://azure.microsoft.com/updates/public-preview-manage-your-log-analytics-tables-in-the-azure-portal/>

## Azure Service: Policy

### Updated Features

#### Azure Policy News

New Azure Policy definitions: 33

Changed Azure Policy definitions: 48

#### Azure Policy Initiative News

New Azure Policy Initiative definitions / Policy definitions added to Initiatives: 1

Changes on Azure Policy Initiative definitions: 11

Removed Azure Policy Initiative definitions / Removed Policy definitions from Initiatives: 9

#### Azure Policy Alias News

New Azure Policy Aliases: 187

Changed Azure Policy Aliases: 3

#### Azure RBAC News

New Azure RBAC Role definitions: 5

Changed Azure RBAC Role definitions: 8

Announcement: <https://www.azadvertizer.net/>

Documentation: <https://www.azadvertizer.net/>



## Azure Service: Purview

### General Availability

Get a bird's eye view of your data estate's health and your governance program's adoption. Microsoft Purview Data Estate Insights empowers the office of the Chief Data Officer by giving an overall summary of the data estate. Whether you are a Chief Data Officer, a data steward or a data owner, learn about your data estate, and spot and close gaps in a few clicks with stewardship, asset, classification, label, glossary insights and more.

Announcement: <https://techcommunity.microsoft.com/t5/microsoft-purview-blog/microsoft-purview-data-estate-insights-will-be-generally/ba-p/3397528>

Documentation: <https://azure.microsoft.com/updates/generally-available-microsoft-purview-data-estate-insights/>

## Azure Service: SQL Database

### General Availability

Ledger in Azure SQL Database allows you to enable cryptographic proof that a database has not been tampered with. Ledger in Azure SQL Database provides a solution for your centralized systems where strengthening trust between parties is required. You can enable ledger functionality on tables in your database and interact with them the same ways you would for any other tables. If even a single bit is altered in the database, the database verification process will detect and report the tampering.

Announcement: [https://docs.microsoft.com/azure/azure-sql/database/ledger-landing?view=azuresql?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/azure-sql/database/ledger-landing?view=azuresql?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/generally-available-ledger-in-azure-sql-database/>

### Preview Features

Azure SQL Database has released new features designed to accelerate developer velocity including binding updates, JSON enhancements, and a new local development experience. These features simplify and expedite application development and reduce time-to-market for you. The updated input and output bindings in Azure Functions provide an easier connection to SQL Database using Python and JavaScript languages along with bindings for C#. New JSON constructors (JSON\_PATH\_EXISTS, JSON\_OBJECT, and JSON\_ARRAY) and ISJSON enhancements make validating JSON documents or converting SQL data to JSON easier. The new local development environment provides a containerized, full-fidelity Azure SQL Database emulator together with Visual Studio Code and Azure Data Studio extensions. It will help you design, develop, and test your applications and databases as part of the same source-controlled project and then publish them to public Azure SQL Database service within the same workflow.

The ability to call an Azure Function and any REST endpoint from Azure SQL Database is now just one line of code away. This opens the doors to integration with many other Azure services including Cognitive Services, Logic Apps, Event Hubs, Event Grid, REST endpoints deployed in App Services, and Azure Containers or exposed via API Management.

Announcement: <https://techcommunity.microsoft.com/t5/azure-sql-blog/streamline-development-and-accelerate-developer-velocity-on/ba-p/3421726>

Documentation: <https://azure.microsoft.com/updates/public-preview-new-modern-capabilities-for-azure-sql-database/>

### Preview Features

Azure Synapse Link for SQL automates the extraction and movement of data from your relational operational data stores in both Azure SQL Database and SQL Server 2022 to Azure Synapse Analytics dedicated SQL pools. Your data is replicated in near-real-time without the need to develop and deploy ETL or ELT pipelines. Once in Azure Synapse Analytics, the data can be used in advanced analytics and other downstream processing systems much faster than traditional batch-based ETL or ELT scenarios.

Announcement: [https://docs.microsoft.com/azure/synapse-analytics/synapse-link/sql-synapse-link-overview?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/synapse-analytics/synapse-link/sql-synapse-link-overview?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/public-preview-azure-synapse-link-for-sql/>

## Preview Features

Microsoft Purview Data Policy for SQL dev ops roles is now public preview. This is an intuitive experience for SQL dev ops roles to provision access to data assets that opted into Microsoft Purview's governance boundary. The capability enables the data owner to manage the data entitlements centrally from Microsoft Purview.

Announcement: <https://techcommunity.microsoft.com/t5/microsoft-purview-blog/microsoft-purview-data-policy-for-sql-devops-access-provisioning/ba-p/3403174>

Documentation: <https://azure.microsoft.com/updates/public-preview-microsoft-purview-data-policy-for-sql-dev-ops-roles/>

## Azure Service: Stream Analytics

### Preview Features

Stream Analytics jobs now support native autoscaling which allows you to efficiently optimize the number of streaming units assigned to your job. This is a great mechanism to deal with changing input load patterns without compromising on performance. You can configure autoscale based on specific metrics or time schedule.

Announcement: [https://docs.microsoft.com/azure/stream-analytics/stream-analytics-autoscale?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/stream-analytics/stream-analytics-autoscale?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/asaautoscalejobs/>

### Preview Features

Stream Analytics no code editor provides a drag and drop experience to develop your jobs and reduce the barrier to entry. This is done for common stream processing scenarios such as streaming ETL, ingestion, and materializing data to data stores. Utilize pre-defined templates to help you get started and have a complete stream processing pipeline built within minutes.

Announcement: [https://docs.microsoft.com/azure/stream-analytics/no-code-stream-processing?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/stream-analytics/no-code-stream-processing?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/asanocodeeditor/>

### Updated Features

New updates to the Stream Analytics portal experience include:

New get started experience: Familiarized yourself with Stream Analytics and the steps to setup your job.

Improved edit experience: Edit your inputs and outputs without leaving the SQL query editor. Or directly jump to the target resource, if needed.

Output schema mismatch detection allows you to know if the test results of your query matches what your Azure SQL Database table expects.

Announcement: [https://docs.microsoft.com/azure/stream-analytics/stream-analytics-quick-create-portal?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/stream-analytics/stream-analytics-quick-create-portal?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/asaqueryimprovements/>

### Updated Features

Thousands of customers continue to ramp up their usage of Stream Analytics and now require even more scale to keep up with the large volumes of streaming data that need to be analyzed. Stream Analytics is increasing the maximum size of jobs and clusters from 192 SUs to 396 SUs to help you scale as needed to meet your needs.

Announcement: [https://docs.microsoft.com/azure/stream-analytics/stream-analytics-quick-create-portal?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/stream-analytics/stream-analytics-quick-create-portal?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/asasizeincrease/>

## Azure Service: Virtual Machines

### General Availability

Today, we are announcing the general availability of DCsv3 and DCdsv3-series Azure Virtual Machines.

With the 3rd Generation Intel® Xeon Scalable processors, the capabilities of DCsv3 and DCdsv3 VMs have substantially improved. When compared to second generation Intel® Xeon E-2288G processor, the size of the Enclave Page Cache (EPC) has increased 1500 times, regular memory has increased 12 times, and CPU cores by 6x to enable more performance while maintaining data confidentiality.

With this generation, we're enabling customers to encrypt their VM with separate and unique keys using Intel® Total Memory Encryption – Multi Key, which enables always-on encryption and provides protection against tenants on the same node. Azure Kubernetes Service (AKS) with Intel® SGX add-on is also generally available (GA) supporting in all DCsv3 regions.

Announcement: [https://docs.microsoft.com/azure/virtual-machines/dcv3-series?WT.mc\\_id=wwc-aces](https://docs.microsoft.com/azure/virtual-machines/dcv3-series?WT.mc_id=wwc-aces)

Documentation: <https://azure.microsoft.com/updates/ga-azure-virtual-machines-dcsv3-and-dcdsv3/>