



Ignite Flash: News & Infos für Developer

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#SummitUp



What's new in relational databases

General availability

**Azure Database for MySQL
Flexible Server**

**Azure Database for PostgreSQL
Flexible Server**

Public preview

Azure SQL Managed Instance

- Link feature in Azure SQL Managed Instance
- Premium-series, memory-optimized hardware
- Increased storage capacity to 16TB
- Windows authentication

What's new in NoSQL databases

General availability

Azure Managed Instance for Apache Cassandra

Azure Cosmos DB

- Provisioned throughput spending limit
- Azure Advisor cost-savings alerts
- Partial document updates
- Indexing metrics

Public preview

Azure Cosmos DB

- Azure Synapse Link custom partitions
- Logic Apps connector

Private preview

Azure OpenAI Service

will give customers access to OpenAI API with the security, compliance, and regional availability requirements that Azure offers.



Unlock new use cases



Apply AI responsibly



Tailor to your needs

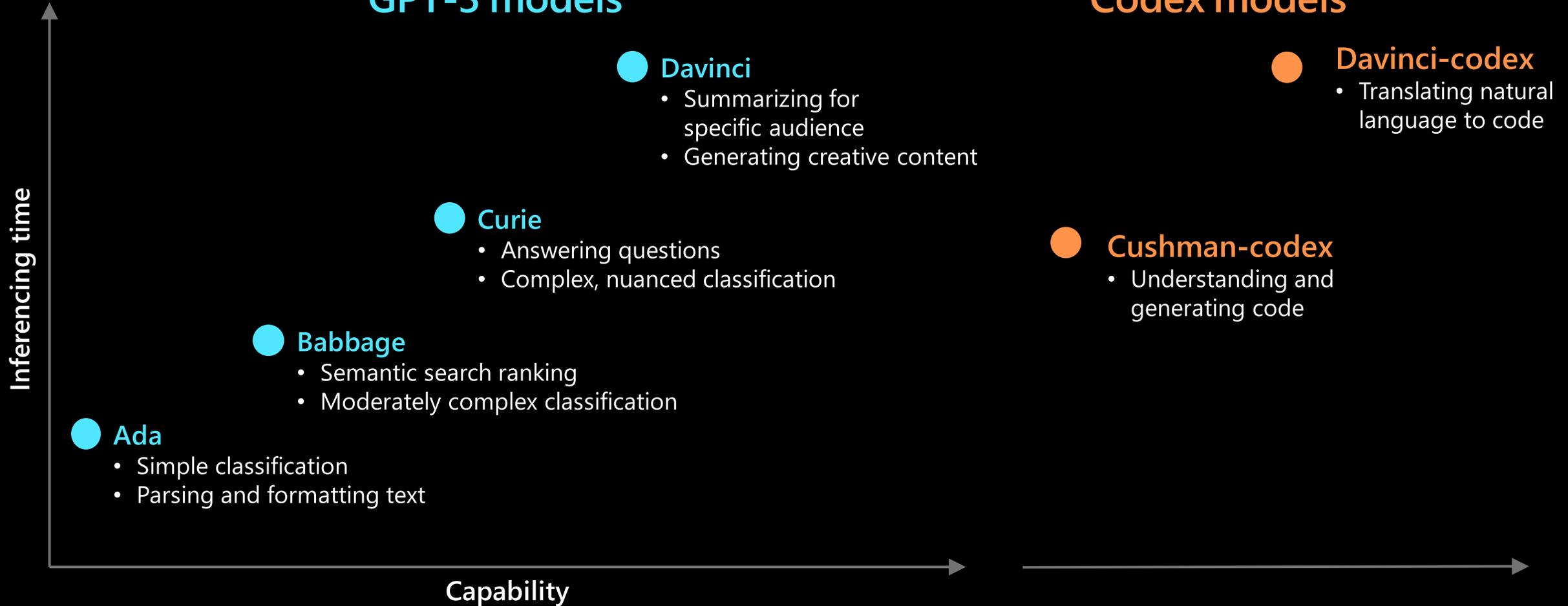


Access enterprise-grade security

OpenAI models

GPT-3 models

Codex models



GitHub Copilot

Your AI pair programmer



Trained on billions of lines of public code, GitHub Copilot puts the knowledge you need at your fingertips, saving you time and helping you stay focused.

Powered by



```
19     screenshot = imagegrab.grab()
20     # Convert to text
21     text = image_to_string(screenshot)
22     # Parse text for email addresses
23     emails = re.findall(r'[\w\.-]+@[\w\.-]+', text)
24     return emails
25
26 def validate(addresses) :
27     |
28
```

Announcing



Secure deployments to Azure through seamless authentication with GitHub

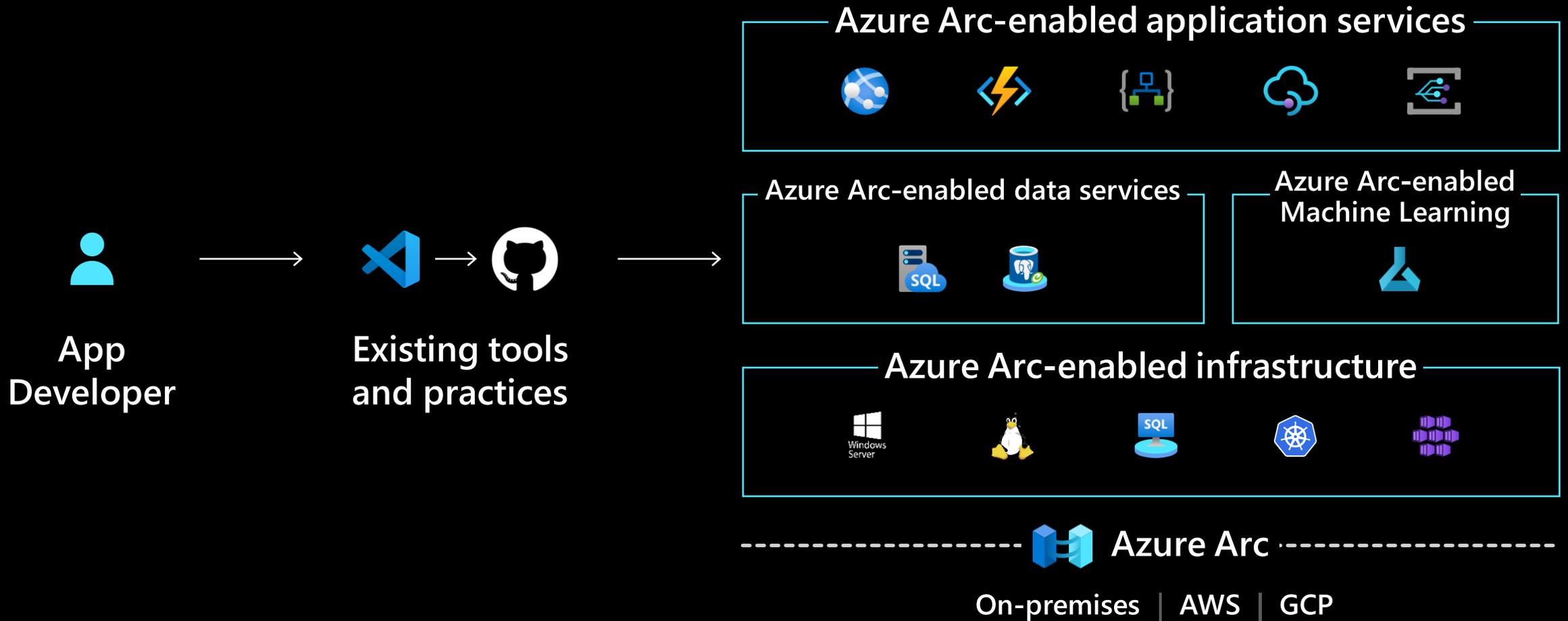
Public preview

Eliminate need to store Azure credentials in GitHub

Manage all cloud resources access in Azure

Minimize downtime due to credential expirations

Run your applications your way on any platform



What's new in Azure API Management

General availability

Native support for WebSocket APIs
Event Grid Integration

Public preview

GraphQL passthrough support

Dashboard > eventstest >

Create Event Subscription

Event Grid

Basic Filters Additional Features Delivery Properties

EVENT SUBSCRIPTION DETAILS

Name * ✓

Event Schema ▼

TOPIC DETAILS

Pick a topic resource for which events should be pushed to your destination. [Learn more](#)

Topic Type API Management service

Source Resource eventstest

System Topic Name eventstesttopic

EVENT TYPES

Pick which event types get pushed to your destination. [Learn more](#)

Filter to Event Types ▼

ENDPOINT DETAILS

Pick an event handler to receive your events. [Learn more](#)

Endpoint Type * Web Hook [\(change\)](#)

Endpoint * [\(change\)](#)

[Create](#)

Kubernetes on Azure

Recent announcements and roadmap

- Preview HTTPS proxy configuration support
- Preview NAT gateway integration
- Preview WebAssembly System Interface (WASI) node pools
- Preview Kubernetes 1.22
- Preview Dual-stack IPv6 overlay networking (Kubenet)
- Preview gMSAv2 security policy support on Windows

Public roadmap: <https://aka.ms/aks/roadmap>

Azure / AKS (Public)

Search or jump to... Pull requests Issues Marketplace Explore

< Code Issues 300 Pull requests Discussions Actions Projects 2 Security Insights

Azure Kubernetes Service Roadmap (Public)
Updated 1 hour ago

13 Backlog

- Enable AKS Control Plane Logging during AKS cluster provisioning #1443 opened by jayush (client/AZCLI feature-request)
- Region: South Africa West #1700 opened by juk (action-required feature-request regions)
- Provide more flexible resource reservations for User Node Pools #1339 opened by ondrejNavacek (feature-request nodepools/mode nodepools)
- Allow effortless migration from Basic LB to Standard #1687 opened by rlevchenko (feature-request networking/load-balancers)
- [Feature] OSM addon support for Windows #2095 opened by keikhara (state windows)
- Add Support for a KMS provider for Encrypting Secrets #845 opened by RehanSaeed (feature-request security)

11 Planned (Committed)

- [Feature Request] Alpha Clusters #2058 opened by palma21 (action-required)
- AKS allows creation of NodePools in different Subnets (Kubenet) #1500 opened by juk (feature-request networking/kubenet nodepools)
- Update Default TLAs (Taints, Labels, Annotations) #1537 opened by armandgrillet (feature-request)
- Certificate Authorities are difficult to customize on nodes #2259 opened by jabbera (feature-request)
- [Feature Request] Built-in support for Kubernetes Event-driven Autoscaling (KEDA) #1479 opened by tomkerkhove (feature-request)
- [Feature Request] AKS API to enable retrieval of supported SKUs on AKS #1571 opened by juk (feature-request nodepools)

28 In Progress (Development)

- GPU Multi Instance Support #2539 opened by palma21 (feature-request GPU nodepools)
- Kubernetes v1.22 #2502 opened by PixelRobots (feature-request)
- Azure Policy Support for Regex- allowing granular exclusions/inclusions in AKS specific policies. #2267 opened by miwirtho (security)
- Azure Defender for Kubernetes Process #2527 opened by miwirtho (security)
- Azure Defender for Kubernetes Inventory #2527 opened by miwirtho (security)
- Continual scanning of Pods through Azure Defender Add-on #2524 opened by miwirtho (security)
- Support for Autoprovision #2442 opened by justindavies

28 Public Preview (Shipped & Improving)

- Custom Policy support for AKS #2525 opened by miwirtho (feature-request security)
- FIPS-enabled Nodes #2379 opened by palma21 (feature-request)
- [Feature] Emit AKS event through Azure EventGrid #1812 opened by juk (azure/eventgrid feature-request Upgrade)
- [New Region] - Sweden South & Central #2169 opened by keikhara (action-required feature-request regions)
- Cluster Scale-Down Mode #2061 opened by palma21 (feature-request)
- Propagate custom user assigned tags to every dependent resource used by AKS cluster #1200 opened by mluzhenko (enhancement feature-request)
- [Feature] Support ContainerD on ...

Azure Kubernetes Service

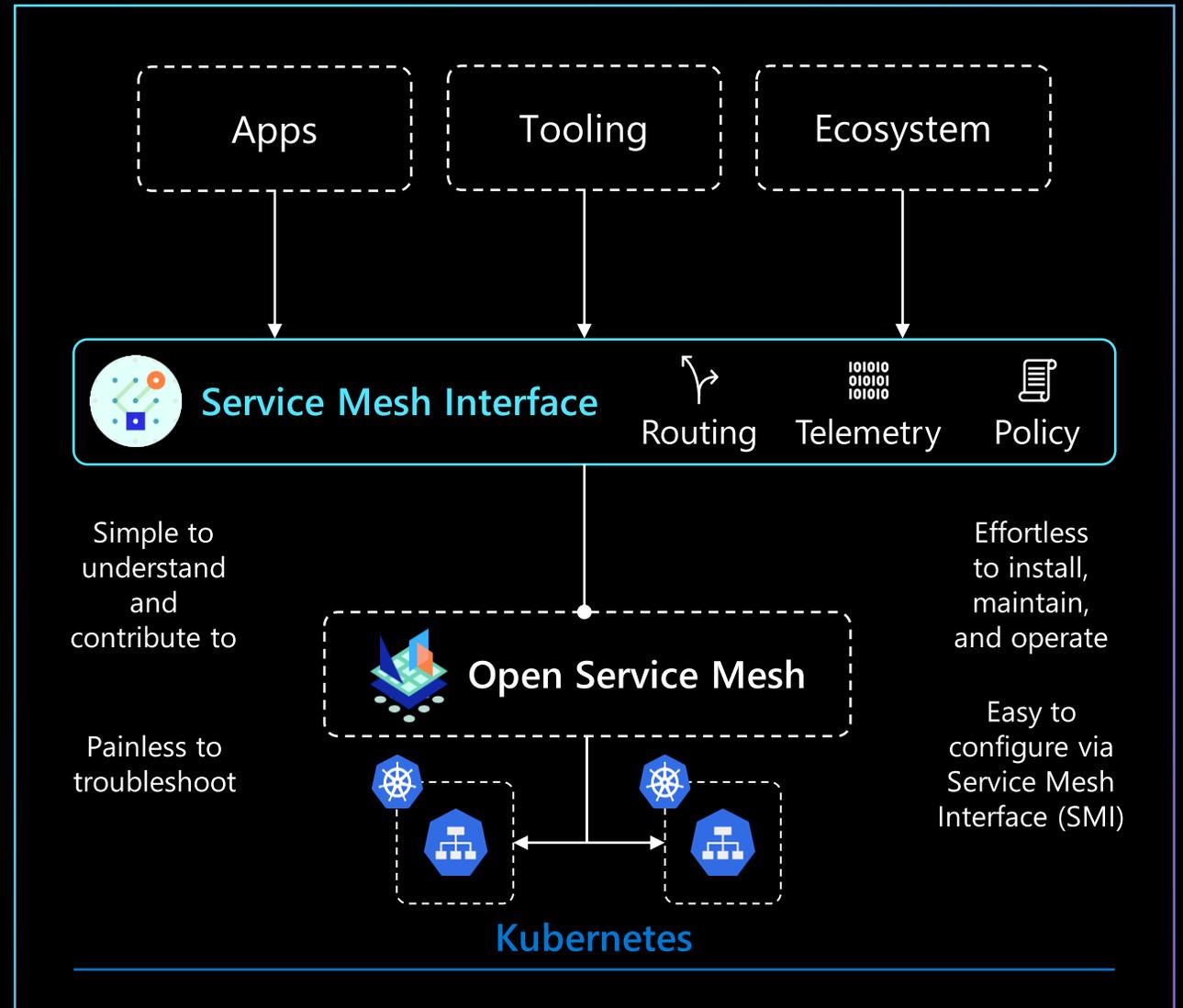
General availability

Open Service Mesh (OSM) integration
Secret Store Driver (CSI) add-on

Public preview

Cluster extensions (Dapr and Azure ML)
Group Managed Service Identity (gMSA)

<https://aka.ms/kubernetes>

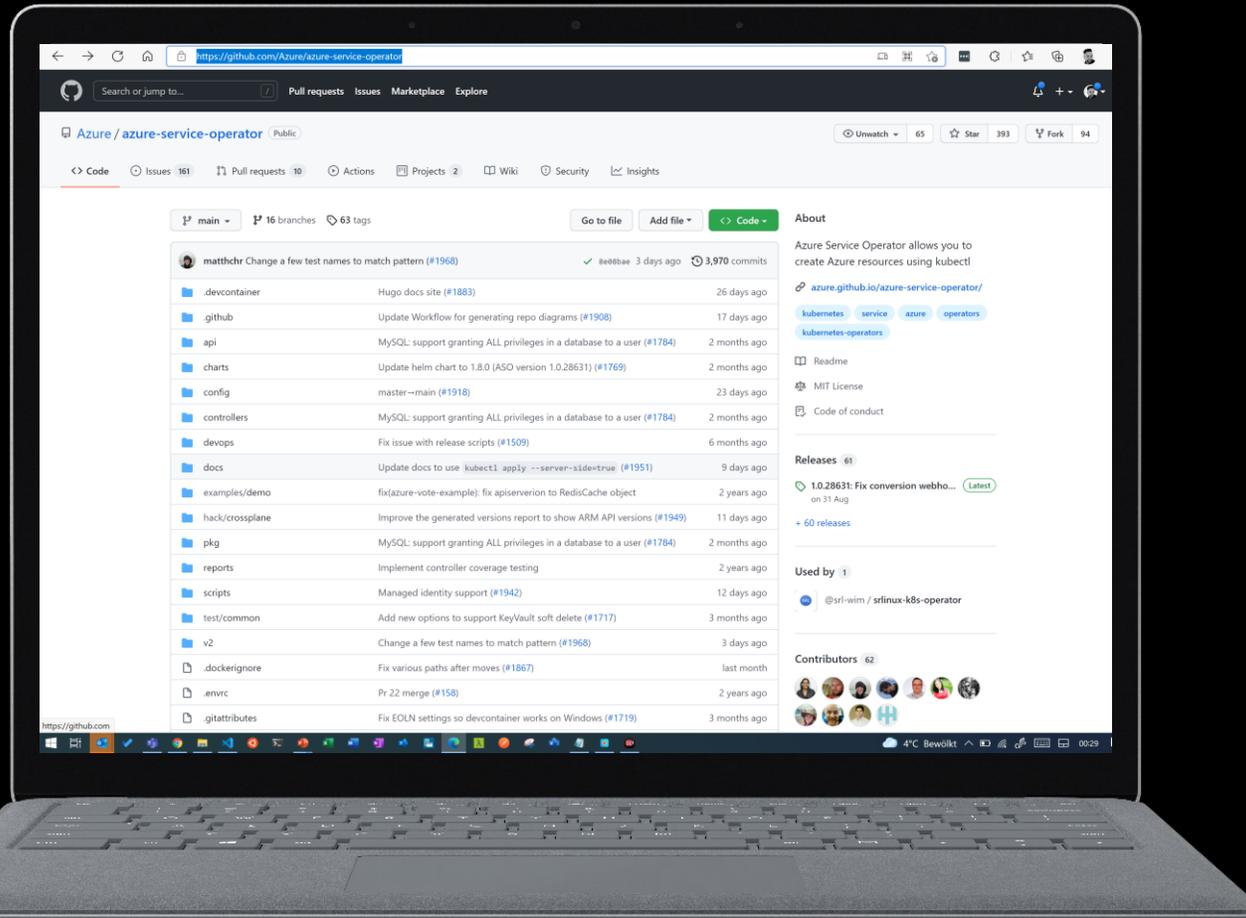


Pre-release

Azure Service Operators v2

CRDs and Golang API structures to deploy and manage Azure resources through Kubernetes

[Azure Service Operator Documentation](#)



Azure Container Apps

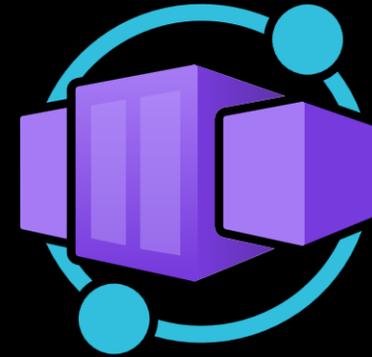
Public preview

Serverless containers for microservices

Build modern apps on open source

Focus on apps, not infrastructure

Seamlessly upgrade to Kubernetes



<https://aka.ms/containerapps>

Azure Web PubSub

General Availability in November

Develop web apps with real-time messaging

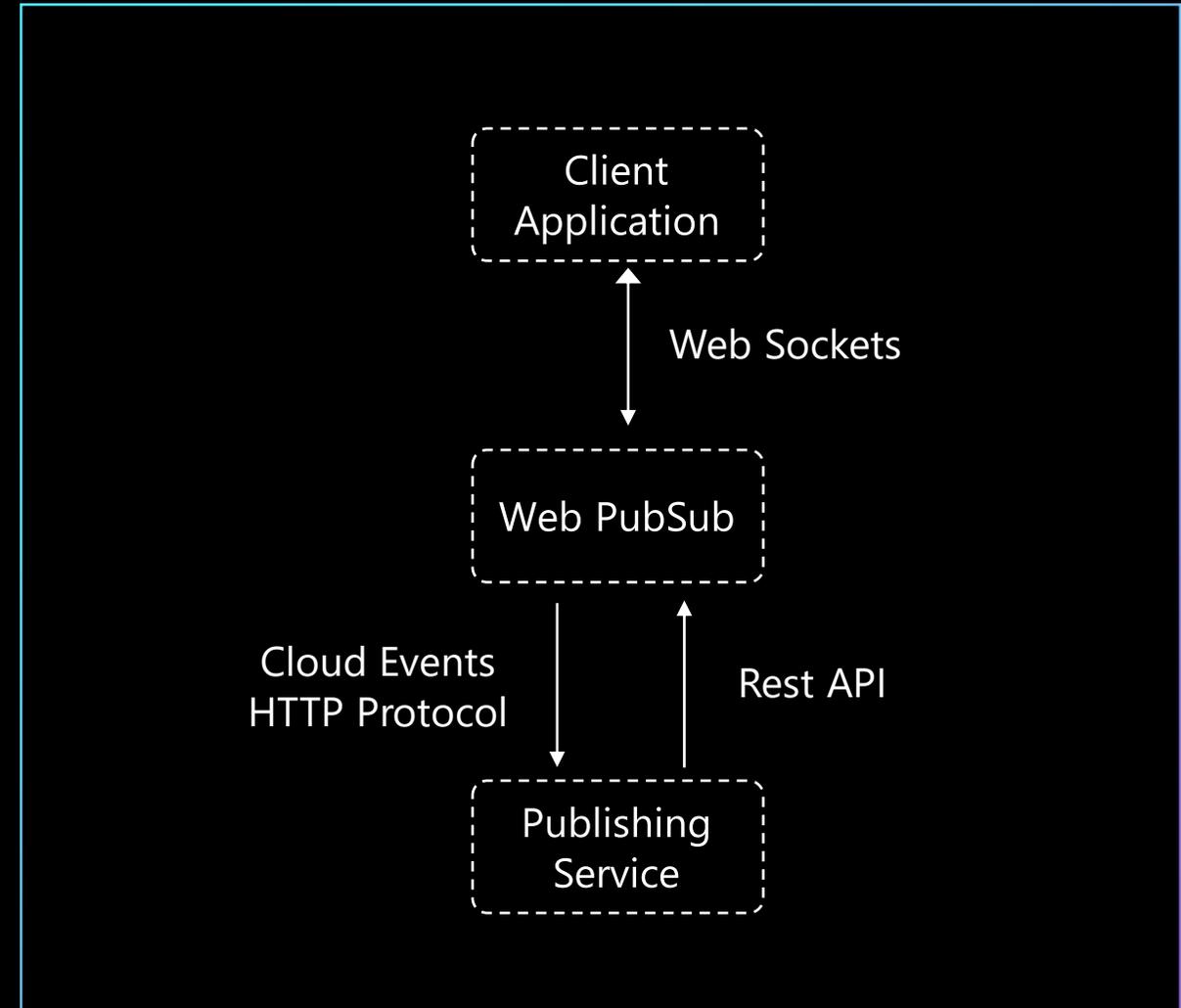
Chats, live broadcasting, IoT dashboards

Supports native and serverless WebSockets

Scales to 100,000 concurrent connections

- Combine instances for even greater scale

Ideal for Java, Python, Javascript, C# developers



Azure Managed Grafana

Sign-up for preview

Build a single pane of glass by connecting with multiple data sources

Data sources include but not limited to all Azure services

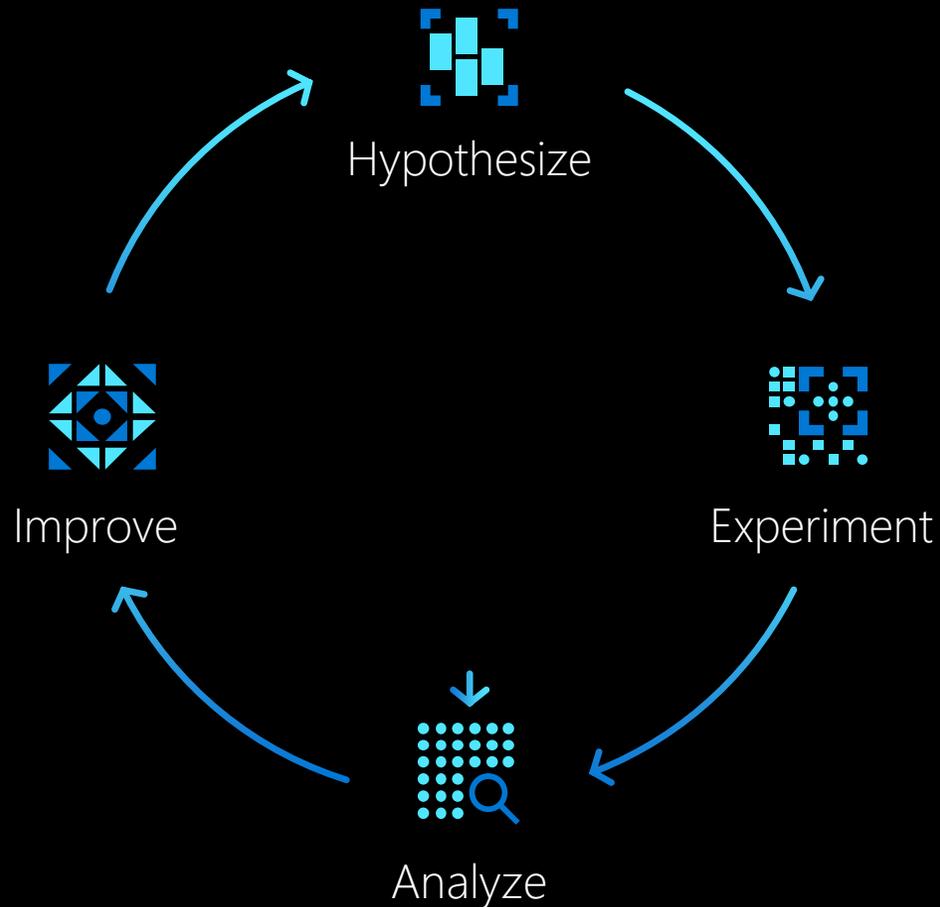
Build powerful visualizations

Correlate metrics, traces and logs from different sources in a unified dashboard

<https://aka.ms/grafana/sign-up>



Azure Chaos Studio



Public preview

Fully managed service for **building resilience** into your Azure services

Deeply integrated into Azure, including Azure Resource Manager, Azure Monitor, and Azure Active Directory.

Expanding library of faults for common Azure service issues

Simulation of real-world scenarios using orchestrated parallel and sequential fault injection

Stop and roll back experiments to safeguard fault injection from causing outages

Azure Migration and Modernization Program (AMMP)

Get support with your migration and modernization needs across Apps, Data, and Infrastructure

The right mix of resources and expert help at every stage of your cloud journey



Proven approach:
Microsoft Cloud
Adoption Framework
and Well Architected
Framework



Cost-effective
offers and
incentives



Technical
skill building



Free tools/
automation:
Azure Migrate



In-depth
assistance from
FastTrack for
Azure engineers



Expert help
from specialized
services partners



Support
environmentally
sustainable
initiatives



THE COSMOPOLITAN™
of LAS VEGAS



GLOBALTRANZ

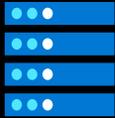
BERDON ACCOUNTANTS
AND ADVISORS



UNIVERSITY OF
LEICESTER

Let's move forward together with confidence. We're here to help at every step.

AMMP helps with common migration and modernization scenarios



Infrastructure and database migration

Move your workloads to Azure to enhance IT resiliency, operational efficiency, and optimize costs.

[for Windows Server, SQL Server, VMware, Linux, OSS-databases, DevTest]



Virtual desktop infrastructure

Quickly migrate Windows desktops and apps to Azure with Azure Virtual Desktop and access your desktop and applications from virtually anywhere.

[for Windows 10 based virtual desktops, incl. VMware and Citrix solutions]



App and data modernization

Modernize your web apps on a highly productive platform with fully managed services.

[for all application languages and frameworks (.NET, Java, PHP, etc.) and supporting database backends]



SAP ^{NEW}

Migrate SAP landscapes to Azure and add complementary cloud services to accelerate innovation.

[for lift-and-shift, SAP HANA migration, and greenfield deployments]

Demo