

Recent announcements

AKS on Azure Spot (GA)

Get steep discounts on AKS agent nodes for workloads that can tolerate interruption.

Proximity Placement Groups (GA)

Minimize latency between nodes by ensuring that they're physically close together in a region

Containerd support (GA)

Leverage the most stable and performant container runtime in your AKS clusters

Ephemeral OS disks (preview)

Improve performance and save costs on agent node OS disks

Resource health (preview)

See current and historical issues impacting your cluster, all in one place

Portal resource view (preview)

See your Kubernetes resources directly in the Azure portal

Azure Policy for AKS (GA)

Manage corporate policy in a declarative, cloudnative fashion using Azure Policy

Azure RBAC for K8s AuthZ (preview)

Use Azure RBAC roles to manage access to your AKS clusters

Confidential nodes (preview)

Run sensitive containerized workloads in a trusted execution environment

Kubernetes 1.19 (GA)

Run the latest upstream release of Kubernetes

Start/stop cluster (preview)

Stop a running cluster to save on compute costs, then start it back up later exactly where you left off

Mutate default storage class (GA)

Set the default storage class for a cluster based on its expected workloads

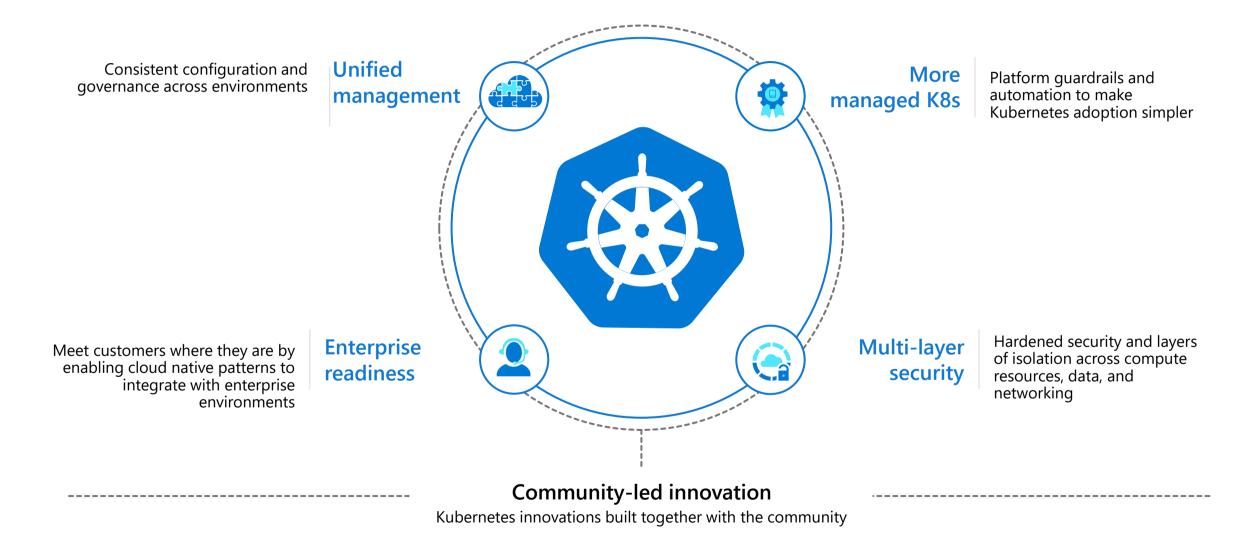
Node image upgrade (GA)

Upgrade the OS image of an AKS worker node without consuming a new Kubernetes version

Managed AAD (GA)

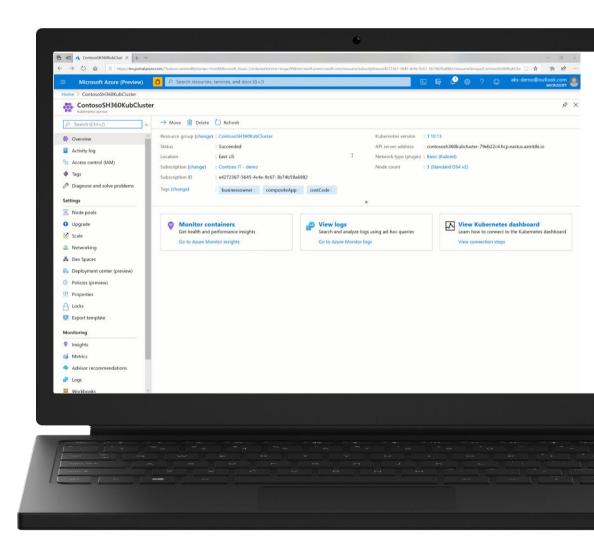
Integrate your cluster with Azure AD with a single command

Kubernetes on Azure



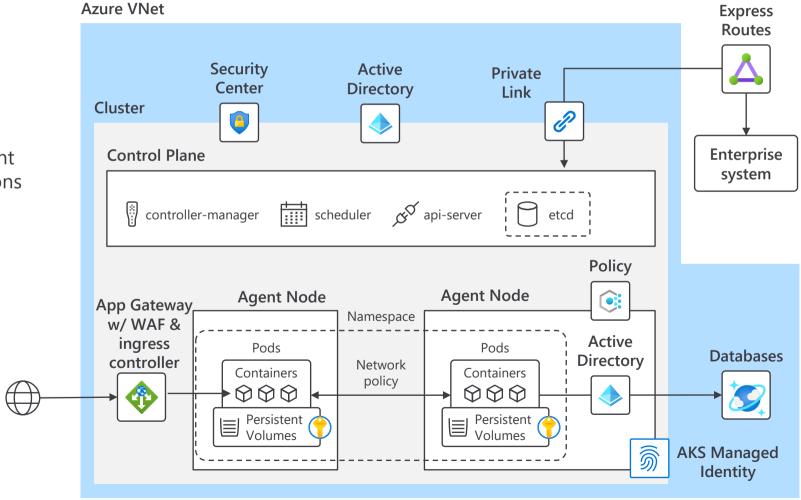
More managed Kubernetes

- Proactive and actionable recommendations from Azure Advisor based on your configuration and usage telemetry
- Automated upgrades and node repair
- Integration with the latest Azure laaS innovations to ensure maximum performance and reliability out of the box
- Deep observability of Kubernetes resources from the Azure portal
- Easy troubleshooting of common issues



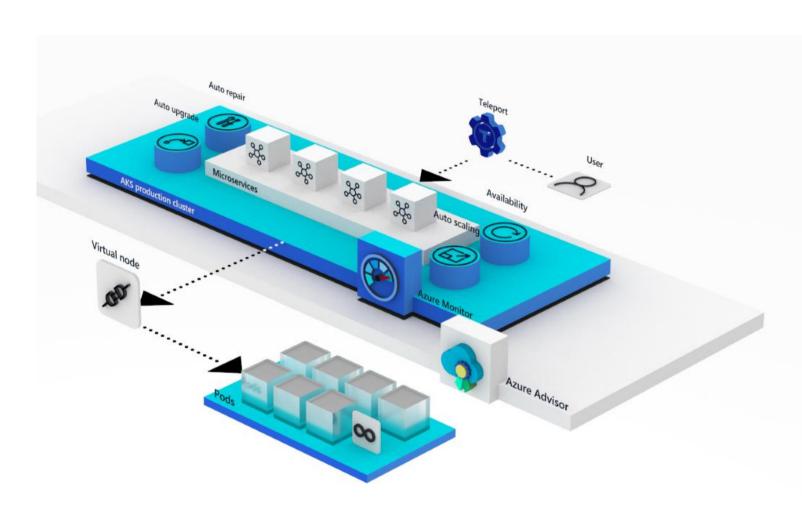
Multi-layer security

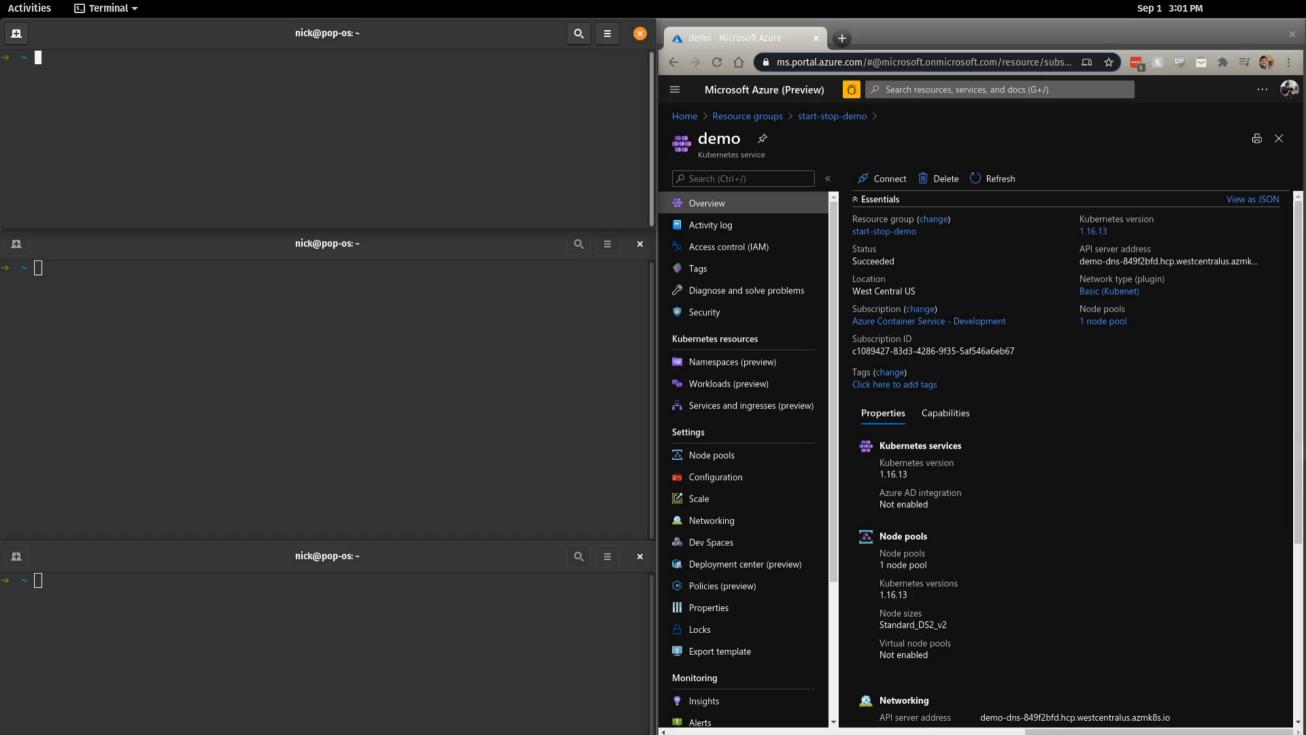
- Apply fine-grained identity and access control using Azure Active Directory
- Encrypt the disks used in your AKS cluster using your own keys, stored in Azure Key Vault
- Gain unmatched security management, intelligent threat detection, and actionable recommendations with Azure Security Center integration
- Enforce compliance rules to your cluster with Azure Policy
- Interact with the Kubernetes API server as a private endpoint using Azure Private Link



Enterprise readiness

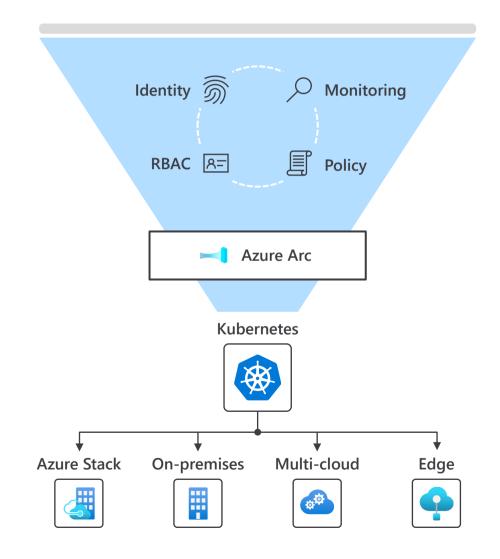
- Controls and configurations required to bring the cloud native world into an existing enterprise environment
- Solutions for acute enterprise challenges such as the scarcity of IP space
- Cost visibility and control for multi-tenant environments





Unified management

- Central inventory and monitoring of the sprawling assets running anywhere from on-premises to edge
- Consistently apply policies, role-based-accesscontrols (RBAC) for at-scale governance
- Deploy Kubernetes resources to all clusters using a GitOps-based workflow



AKS Roadmap Highlights (through H1 CY21)

Open Service Mesh integration

Lightweight, Envoy-based service mesh managed within AKS

Hyper-V Isolation for Windows Containers

Ensure back-compat and secure multi-tenant Windows workloads

Event Grid integration

Subscribe to AKS events (create/scale/upgrade) via Azure Event Grid

CSI Secret Store driver integration

Mount keys/secrets/certs from Azure Key Vault directly into K8s pods

Azure CNI Flexibility

Separate node and pod CIDR ranges

gMSA support for Windows nodes

Support Windows authentication for applications running on Windows agent nodes

AAD pod identity integration

Give individual workloads in the cluster unique AAD identities

ACR Teleport integration

Pull containers from ACR in record time

Cluster auto-upgrade

Set your cluster to automatically consume new K8s releases

Arc GitOps Config integration

Easily connect AKS clusters to GitOps config managed in Arc

Application Insights integration

Get APM for K8s workloads with no code changes

Portal quickstarts

Choose preconfigured cluster templates based on intended usage

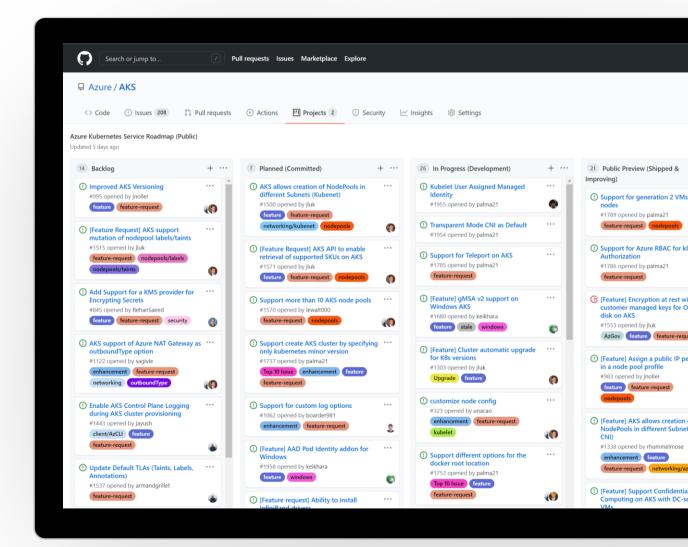
AKS on GitHub

Find detailed roadmap updates and discuss investments

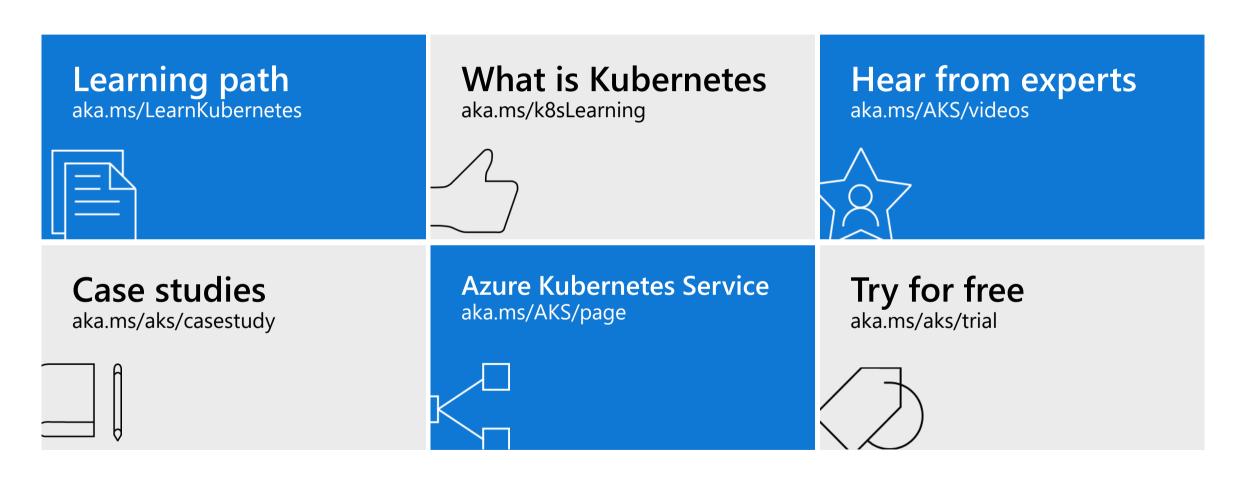
https://aka.ms/aks/roadmap

See weekly release notes

https://aka.ms/aks/releases



Resources



Feedback on the roadmap? Tell us at https://aka.ms/aks/feedback

Q&A

