

AKS Hybrid

Azure Kubernetes im eigenen RZ

One as start should be ok?



Agenda

Was ist AKS

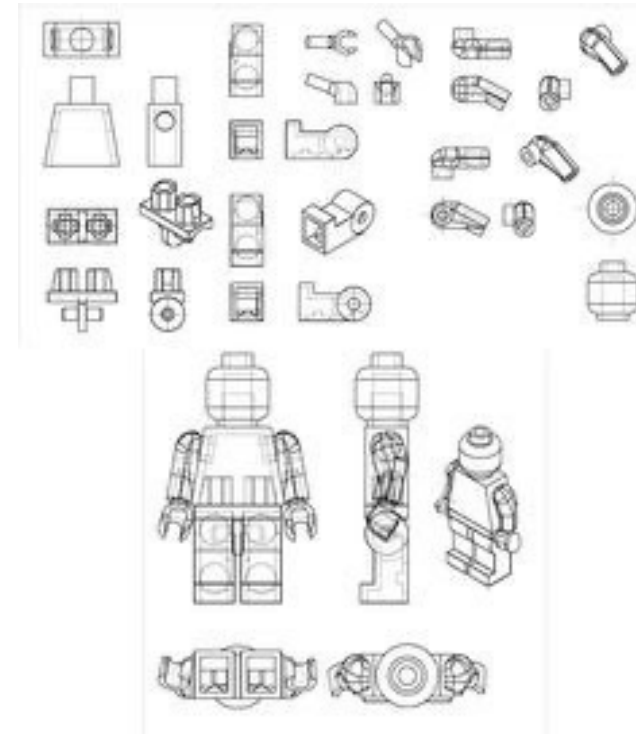
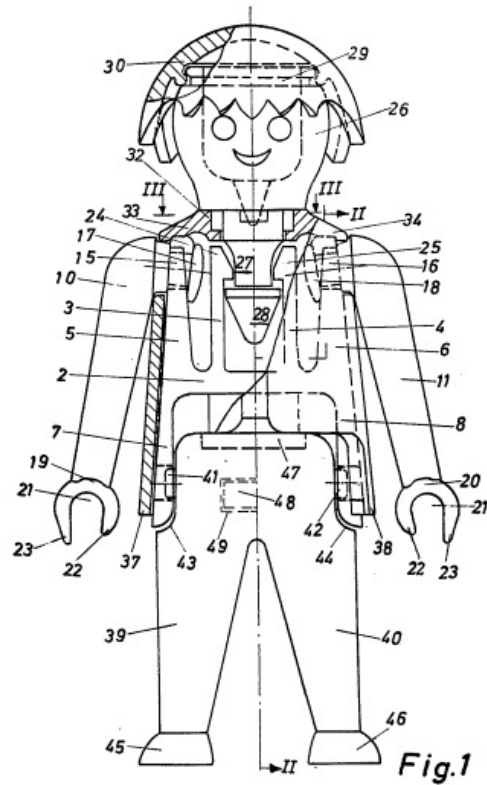
Was bedeutet Cloud Native

Warum AKS Hybrid?

ARC und mehr

Fragen

Before we start



Kubernetes from Scratch

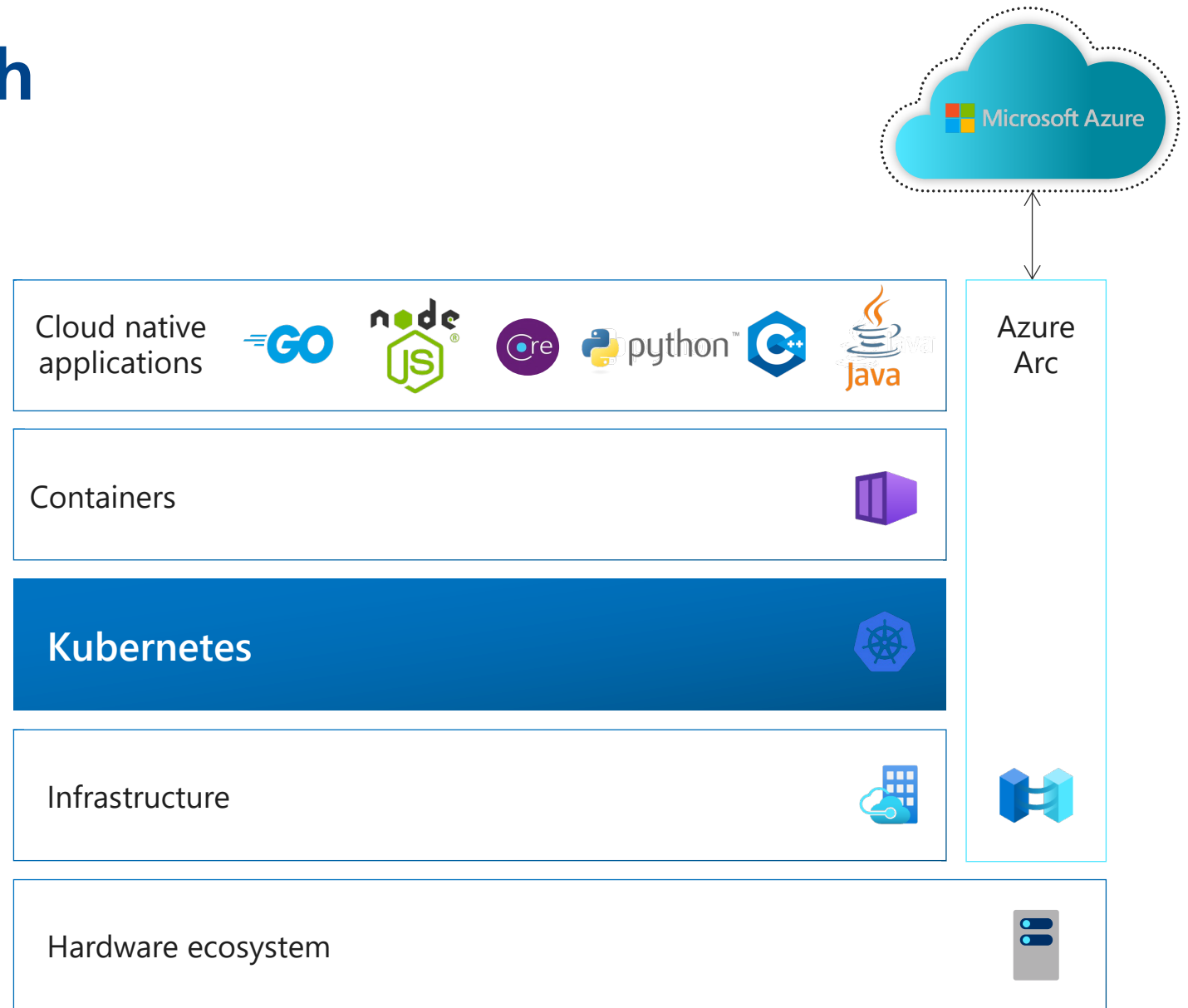
Many configurations for IT to choose:

- Container runtime
- Networking Interface (CNI)
- Secret storage (CSI)
- Cluster API
- Web UI/dashboard
- Load balancer
- Monitoring, logging
- Backup
- Container registry

Many components to add for multi-node physical clusters:

- High availability
- SDN/network load balancing

Process for updating components can be challenging



AKS makes things easier

- Reduces the complexity and operational overhead
- Is Fully CNCF-certified
- Helps developer to get more speed in their development process
- Simplify's automation and maintaining
- Aks is fully managed

KuberNative?



CLOUD NATIVE
COMPUTING FOUNDATION



kubernetes

What is Cloud Native?



Kelsey Hightower ✓
@kelseyhightower

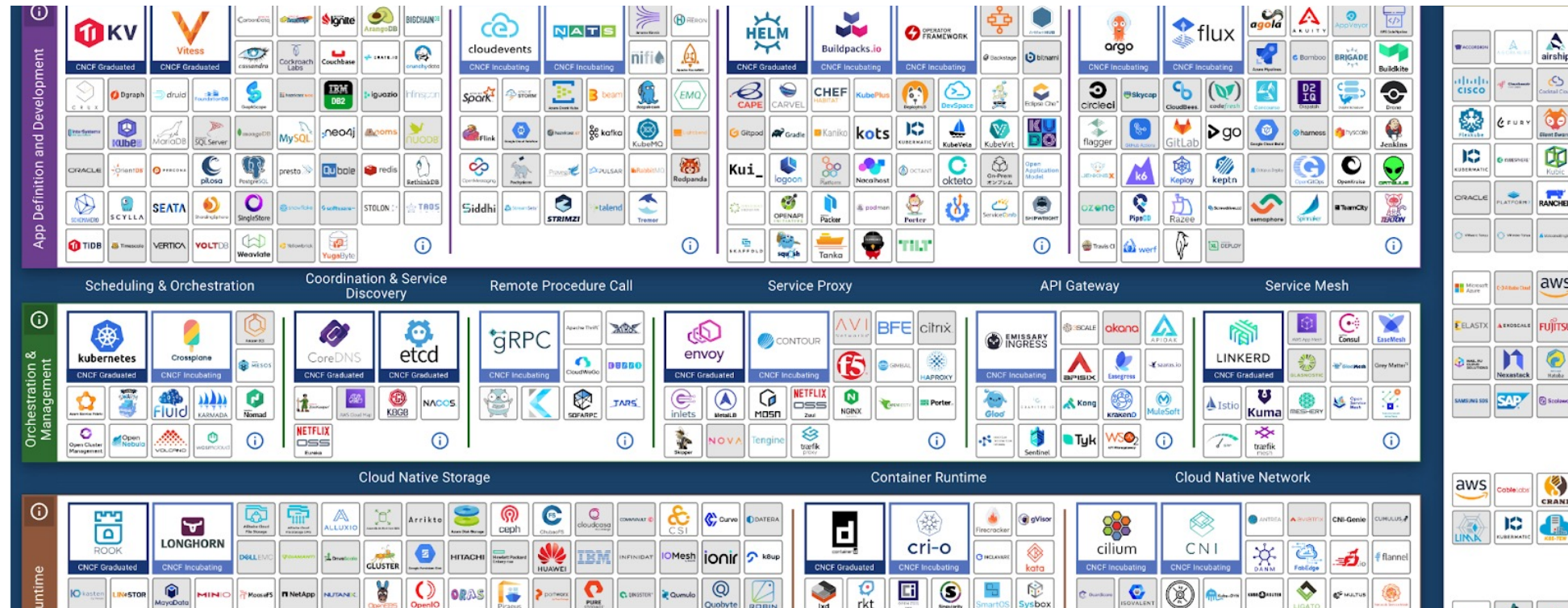
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There is no universal acceptable definition for "cloud native" because it's a philosophy.

Cloud native means whatever you need it to mean so you can focus on something more important, and avoid locking yourself into a specific cloud provider, or IaaS implementation.



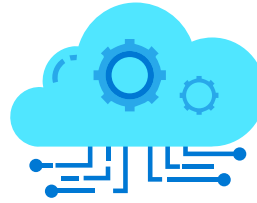
CNCF Landscape



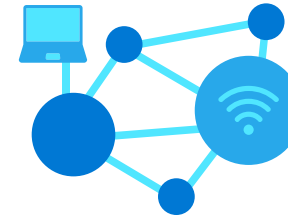
Examples for a Modern Application



Modernize business
critical applications



SaaS
delivery



Real-time
telemetry



Geo-distributed
applications



Run applications
anywhere



AI-powered
apps

Your way to a cloud native application

• Development tools

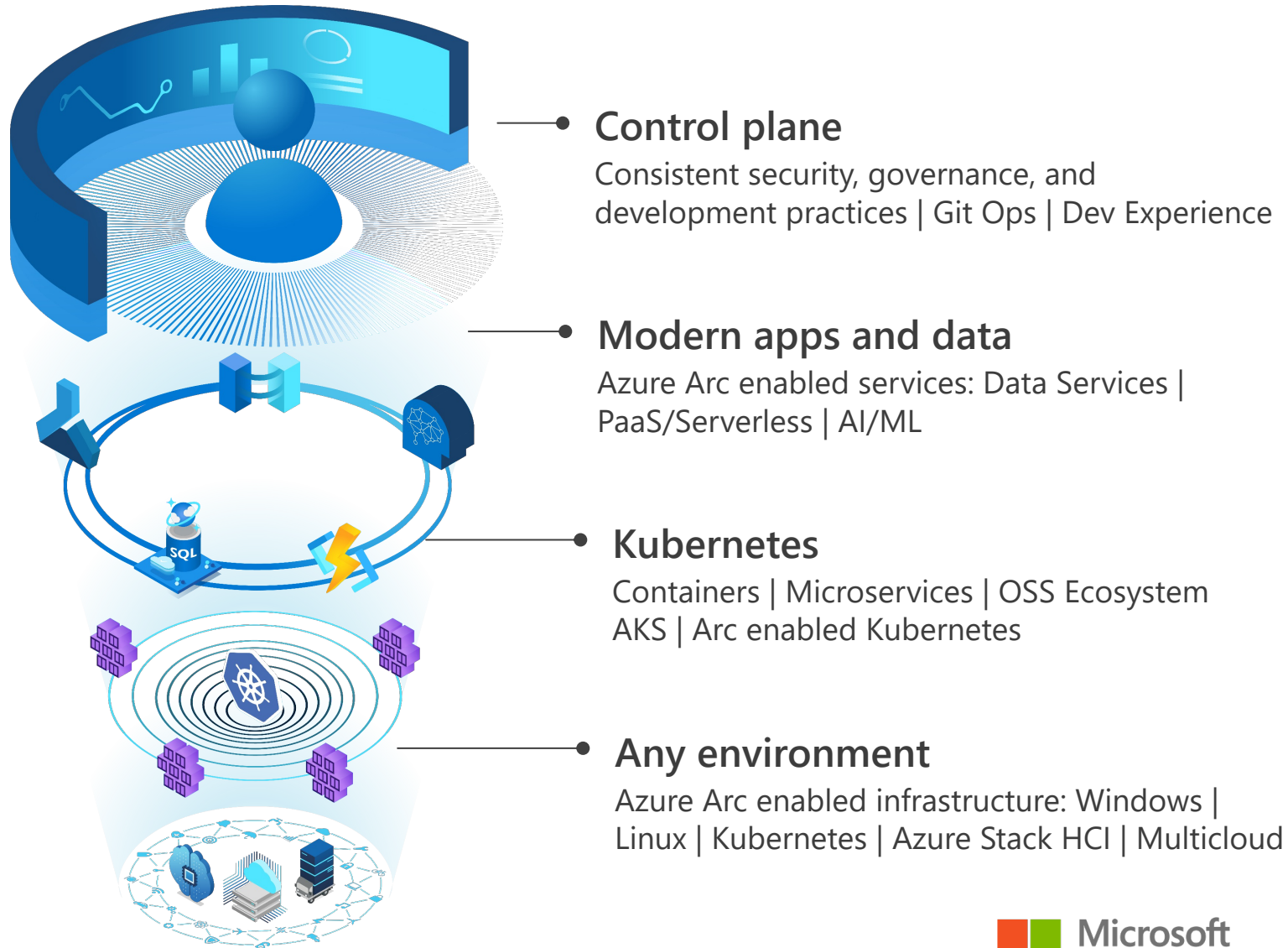
-  • Visual Studio Code
-  • GitHub
-  • Azure Container Registry
-  • Azure Monitor



• Platform

-  • Active Directory
 -  • Azure Policy
 -  • Microsoft Defender
 -  • Key Vault
 -  • Azure Advisor
-
-  • Azure Kubernetes Service
-
-  • **Azure Arc:** Management for hybrid and multicloud environments

Cloud Native from everywhere?



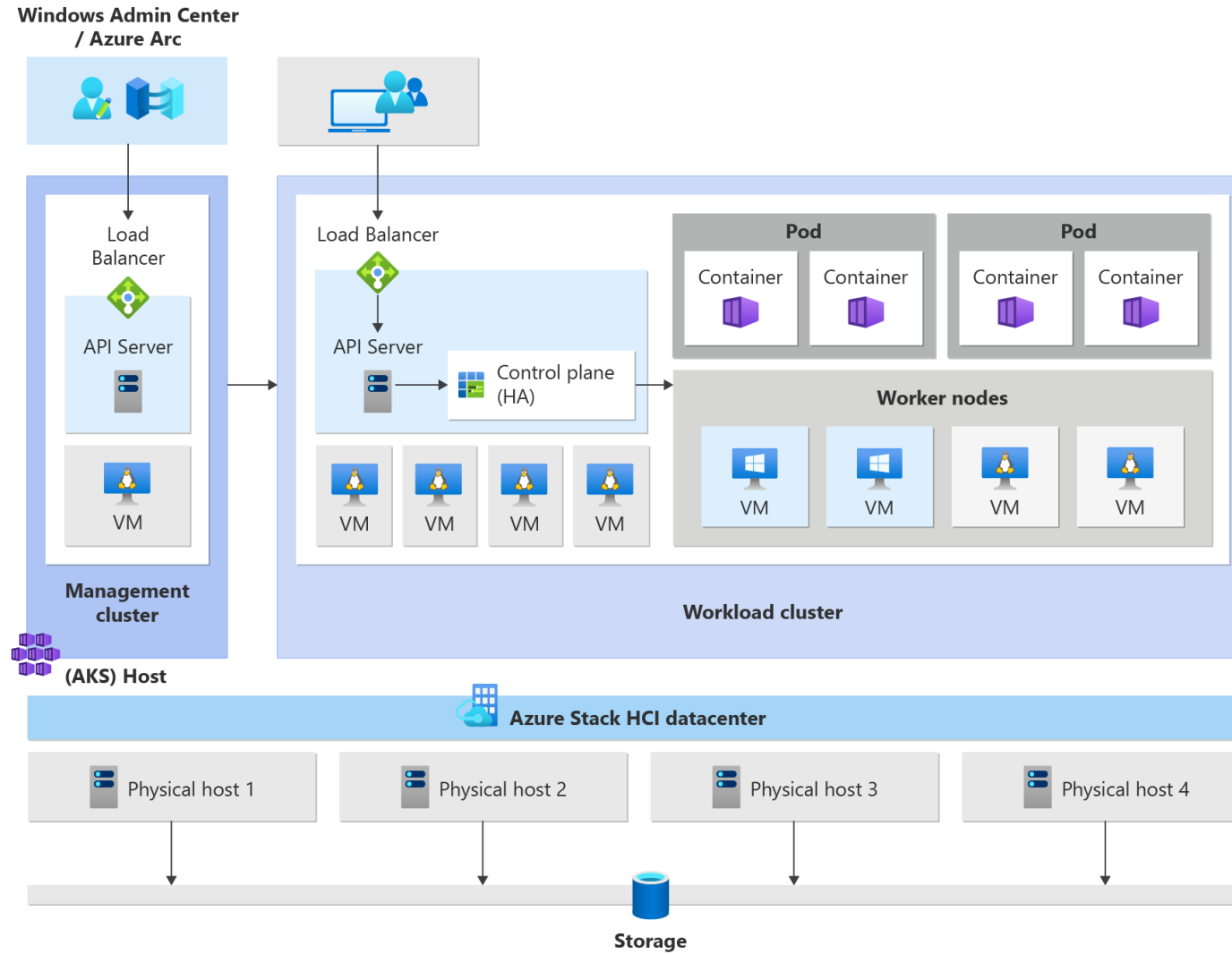
Gardner Magic Quadrant for Distributed Hybrid Infrastructure



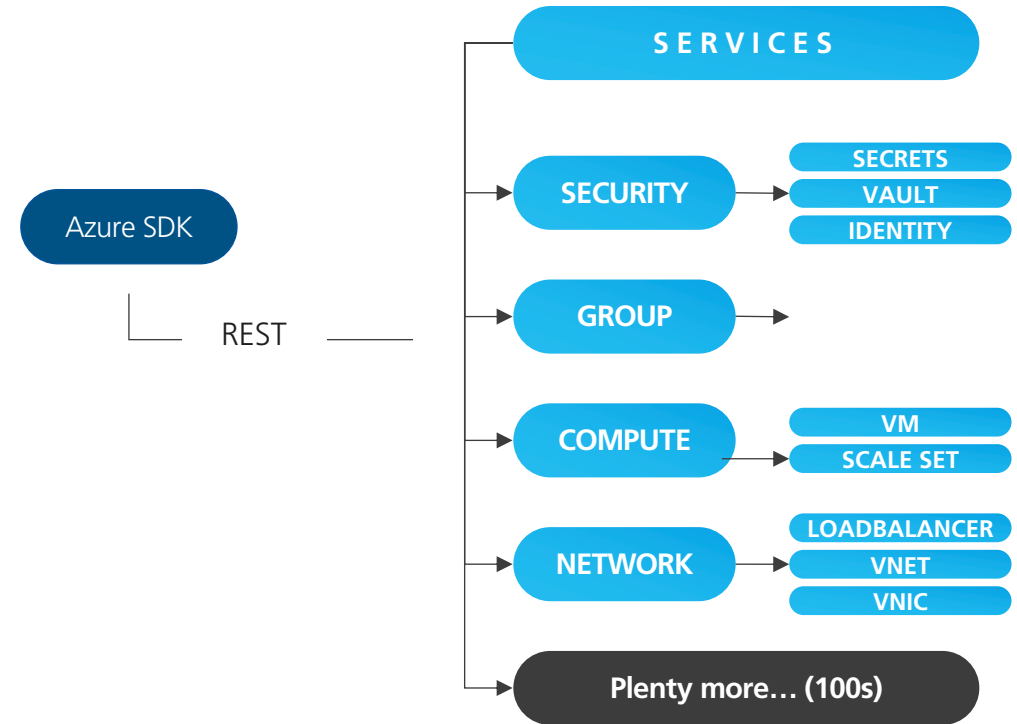
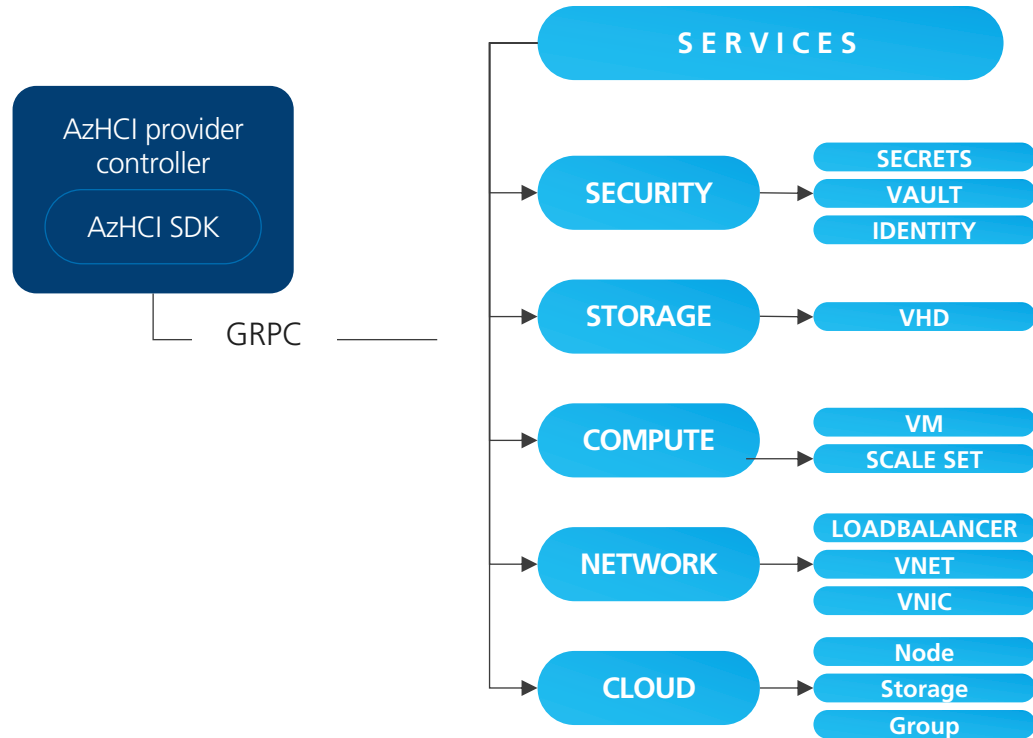
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AKS Hybrid



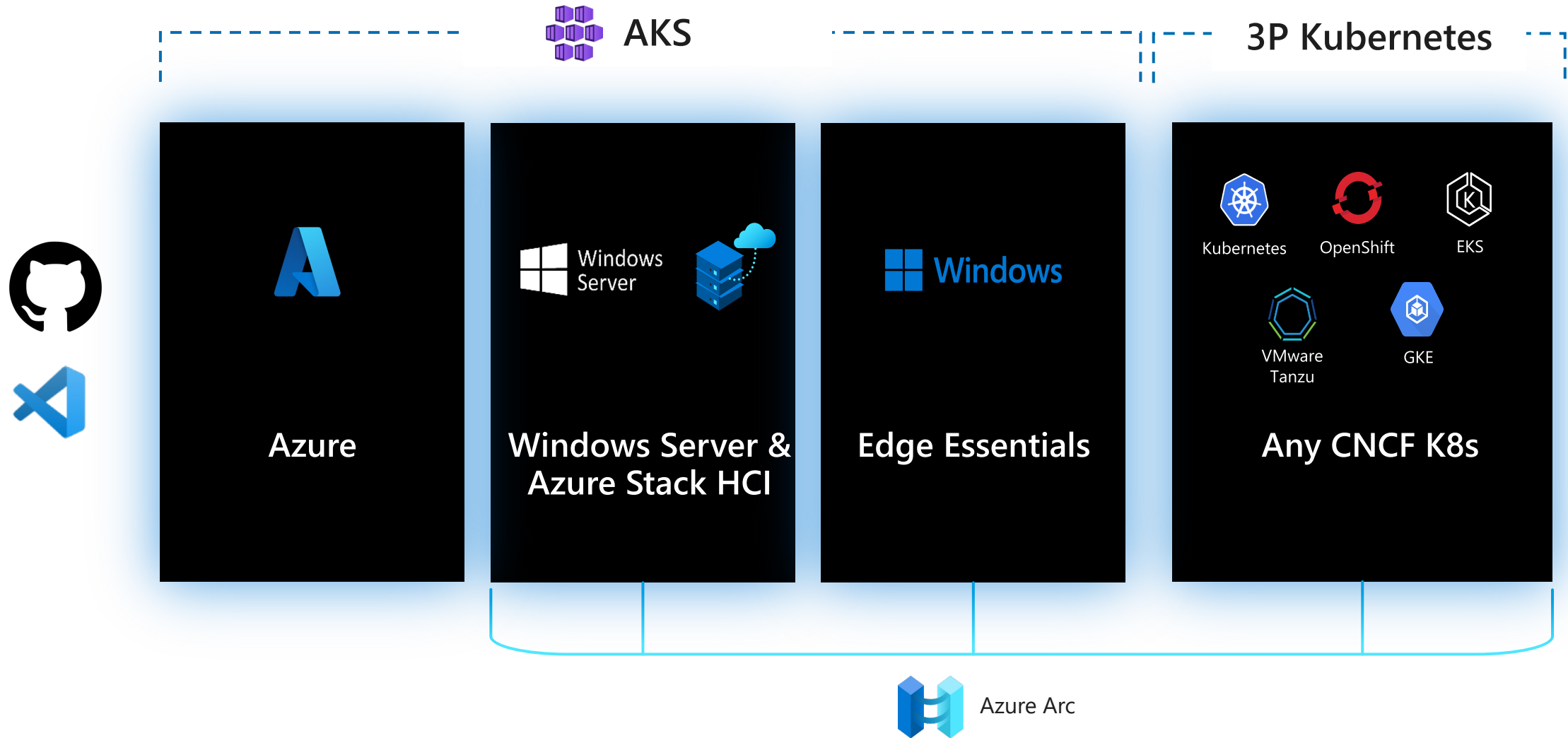
AKS on HCI vs. AKS



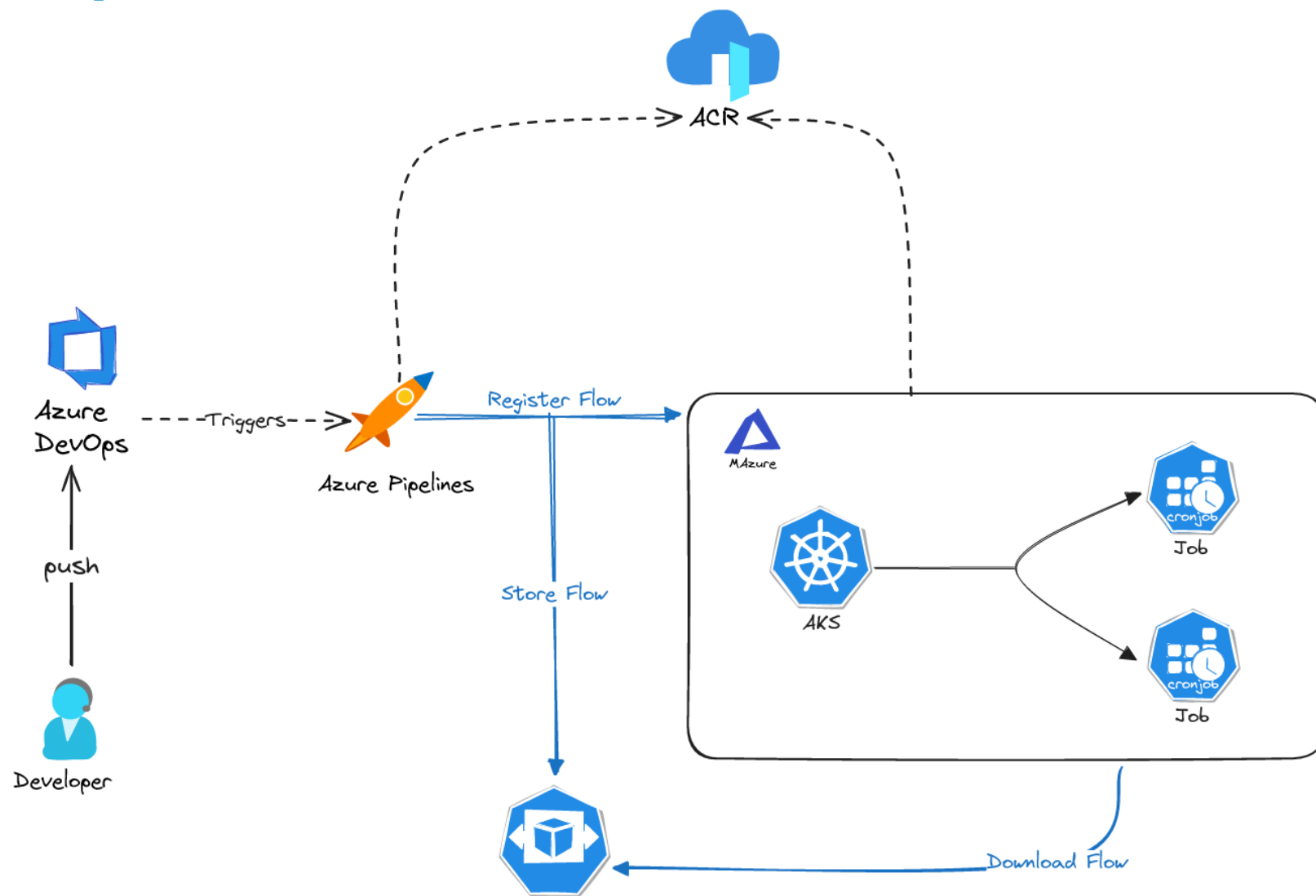
Usecases

- Compliance – Data Resiliency
- Latency – Edge
- RBAC over Azure AD/EntraID
- Monitoring with Loganalytics
- Security
- Azure Arc

Managed Kubernetes „from Cloud to Edge“



Azure DevOps Workflow



Fragen?



Ende!

Vielen Dank für Ihre Teilnahme!

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