

#Luedinghausen

# Azure SQL anywhere. An Introduction to Azure Arc-enabled Data Services

Ben Weissman (he/him)

 @bweissman



#GlobalAzure

# Who am I?

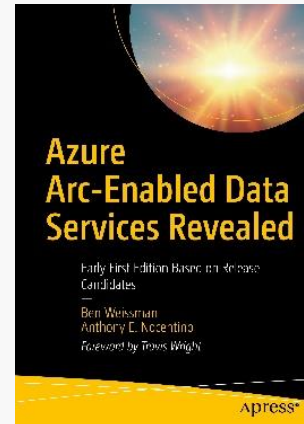
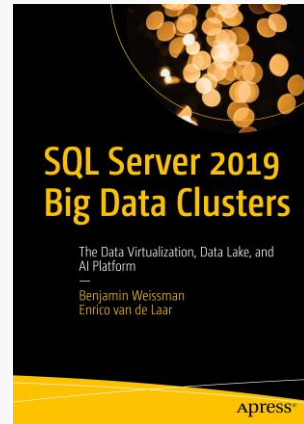
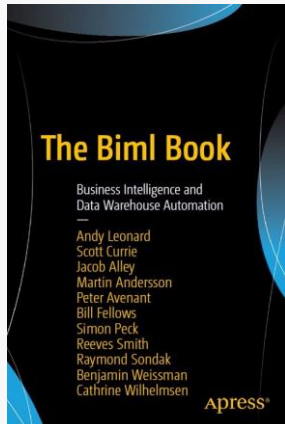
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SQL Server since 6.5

Data Passionist



Certified Data Vault Modeler



Data Science  
Big Data  
Artificial Intelligence  
Data Analysis



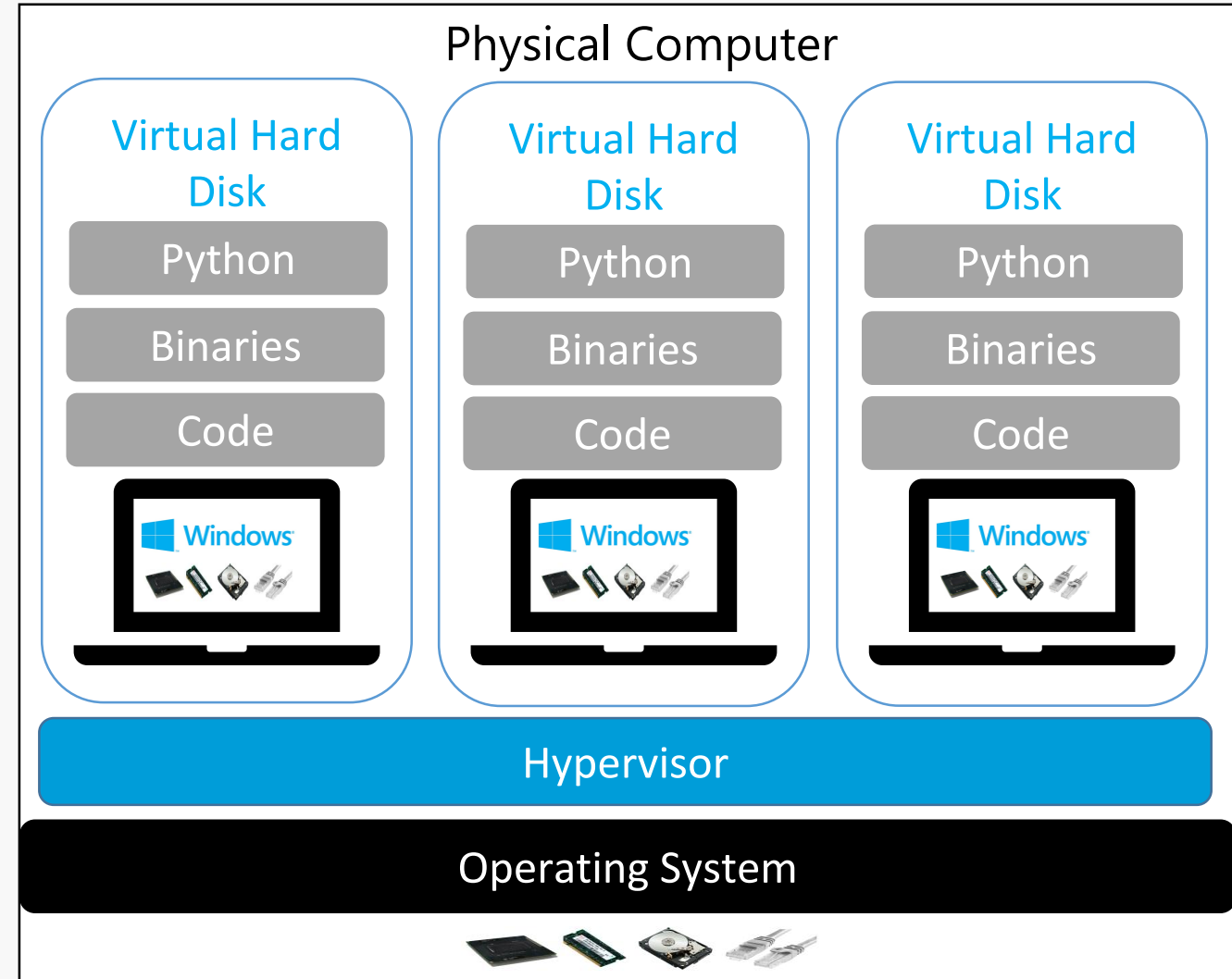
# Virtualization

## Hardware Abstraction



Building on hardware, you can create a complete “PC” on top of a Hypervisor layer, which abstracts out the hardware. You still own the Operating System and up

This allows for scale by ring-fencing OS-level dependencies



# Containers

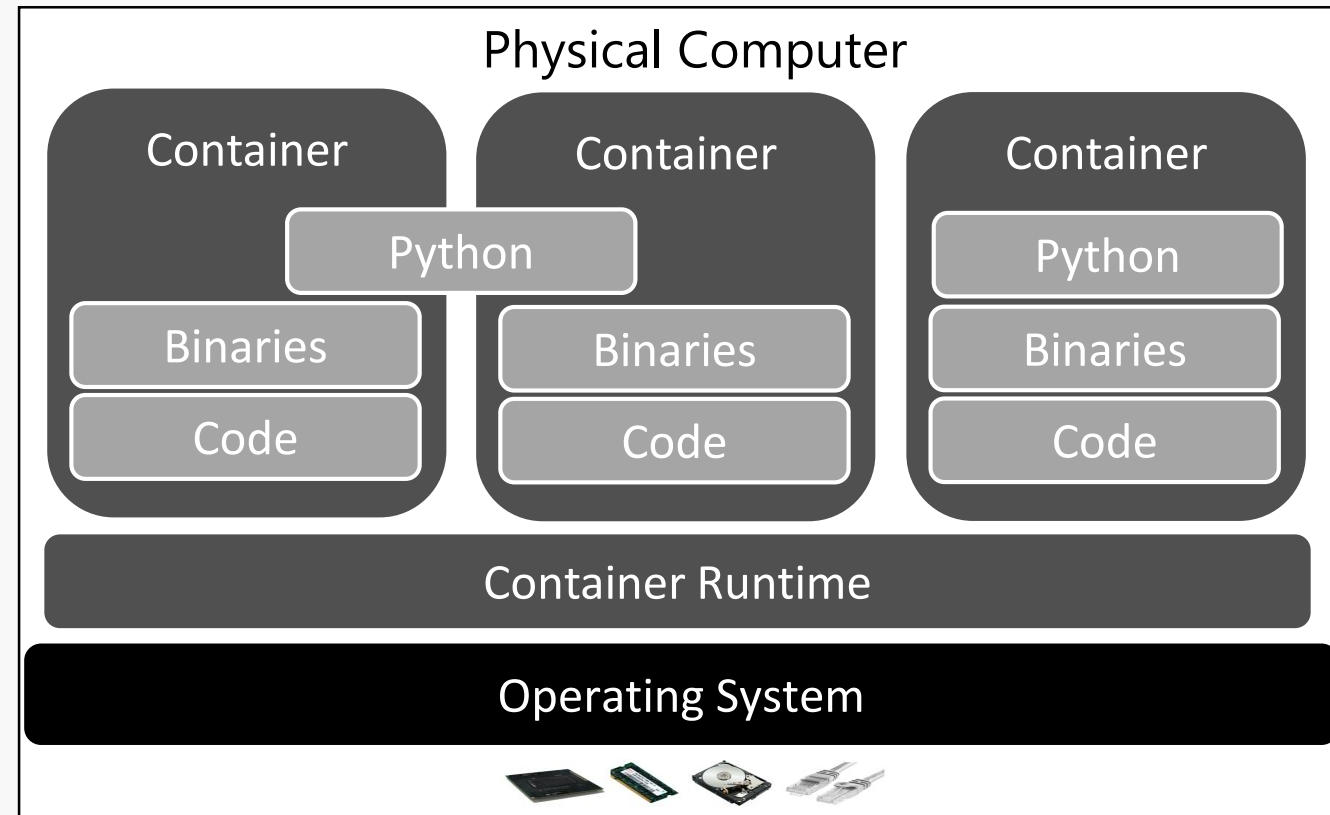


Abstracting the OS, allowing complete portability

Containers go one level further than the Hypervisor, and focusing on binaries and applications

Storage and networking are a consideration

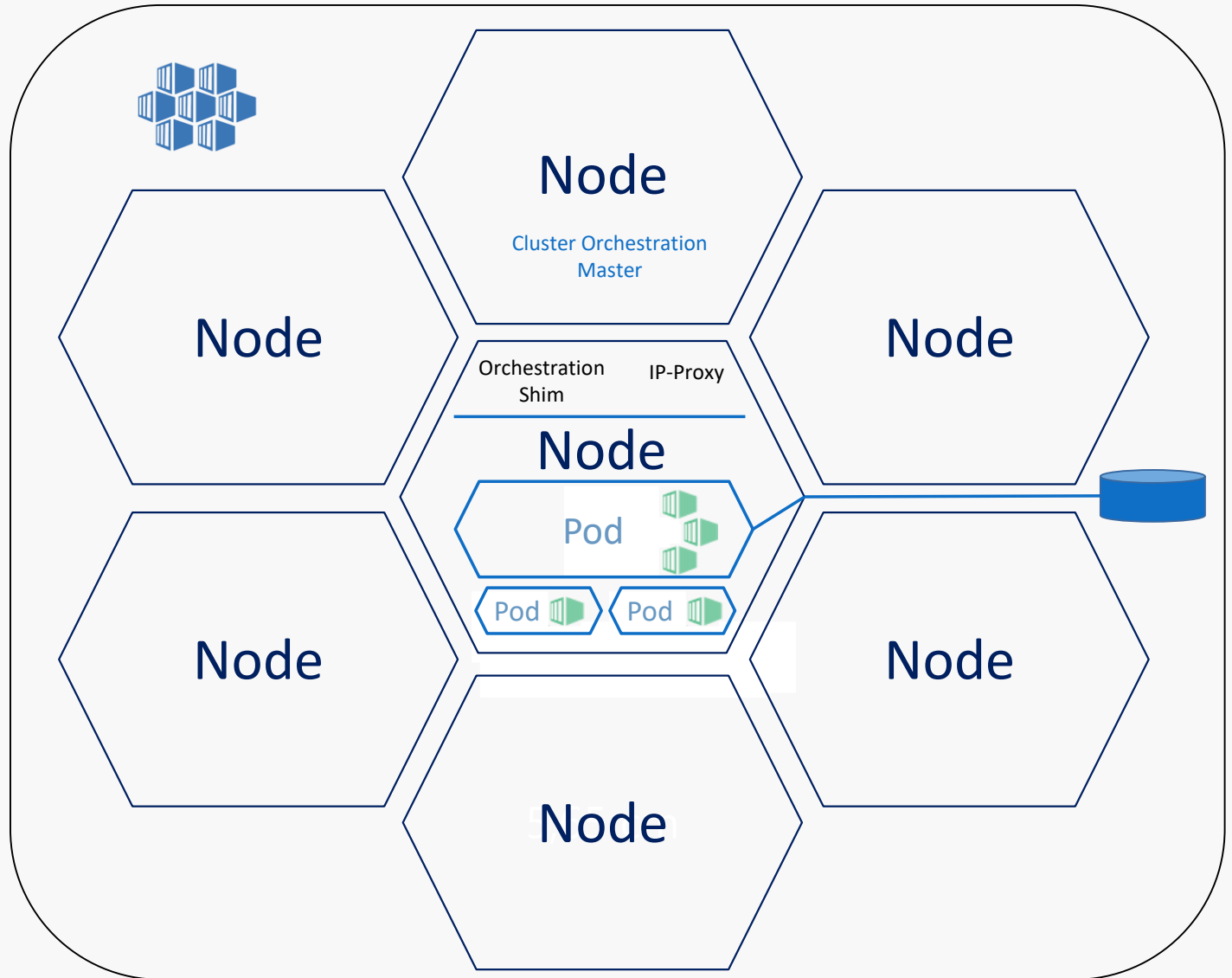
Scale is achieved through multiple containers



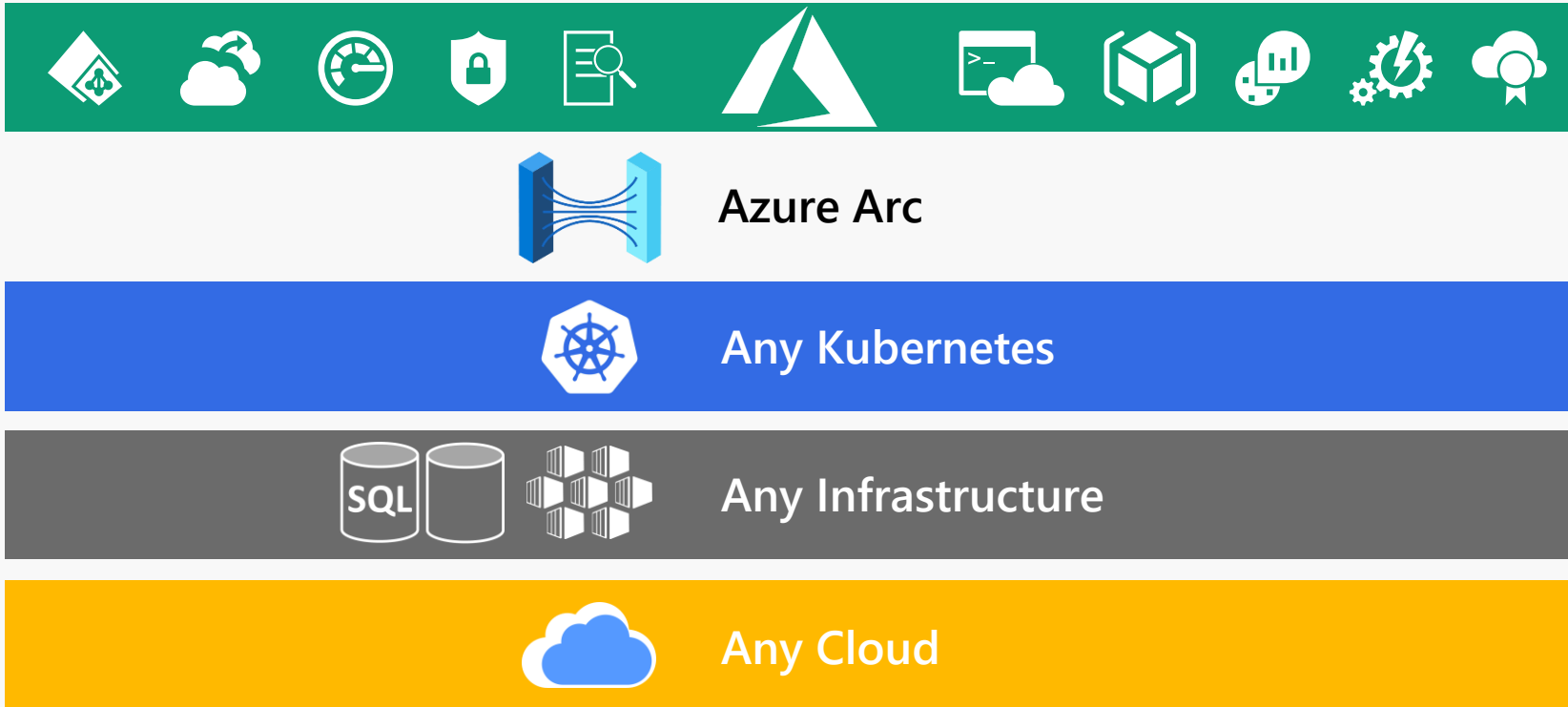
# Container Orchestration

## Containers at Scale

- **Container**(s) live in Pods
- **Pod**(s) are abstractions within Nodes
- **Node**(s) are PC's or VM's
- **Cluster**(s) are groups of Nodes
- Storage is by means of **Volume**(s) mounted through a Claim



# Azure Arc



# Azure Arc-enabled Data Services



Managed  
Instance



PostgreSQL  
HyperScale

# Targets for Azure Arc-enabled Data Services

Azure Kubernetes  
Service



AWS EKS



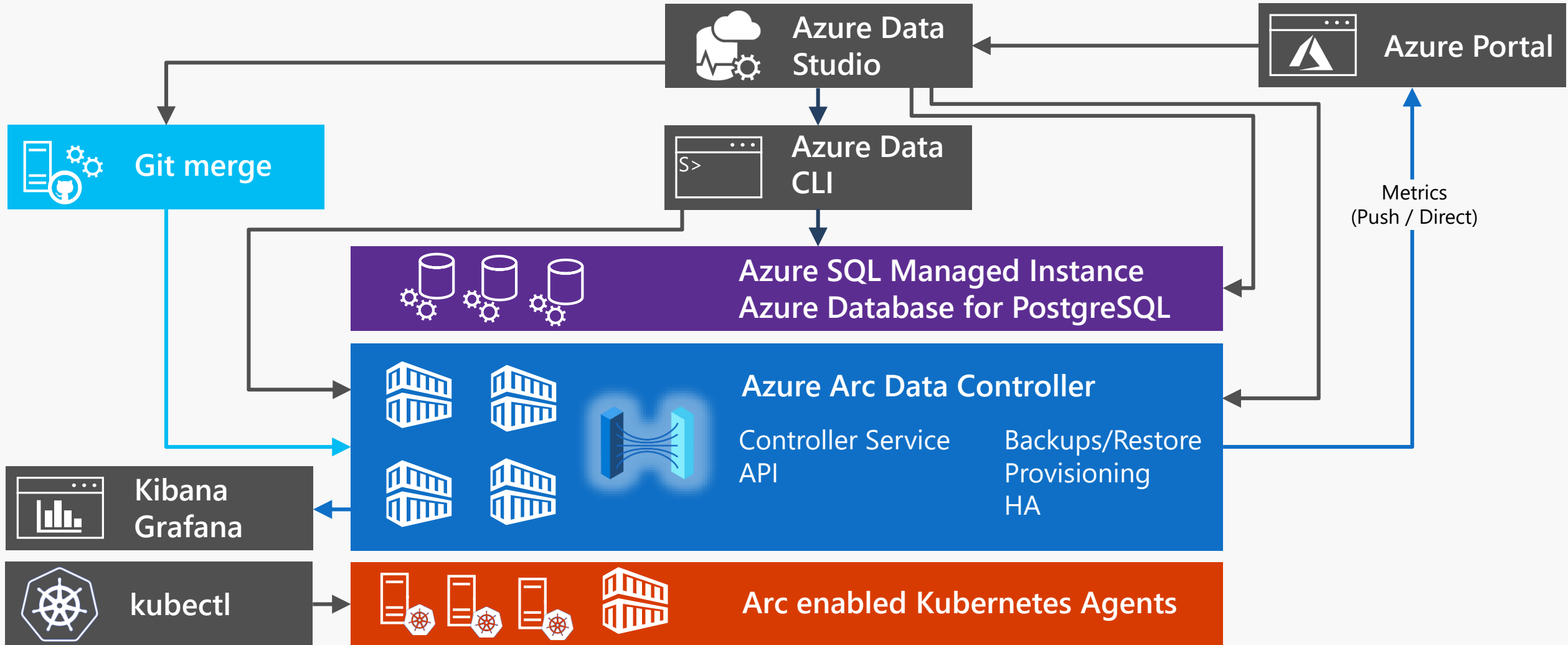
kubeadm on  
Ubuntu VM



...



# Azure Arc-enabled Data Services



# Tools



**Use a Package Manager!**

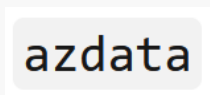
## Arc Prerequisites



kubectl



Azure Data Studio  
(Only for GUI experience)



azdata



azure-cli  
(Only for Azure deployments)

## Good to Have...



Notepad++



7Zip



SQL Server  
command line utilities



PuTTY

#Luedinghausen

# Demo

## Azure Arc-enabled Data Services



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Questions?

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[ArcDemos](#)

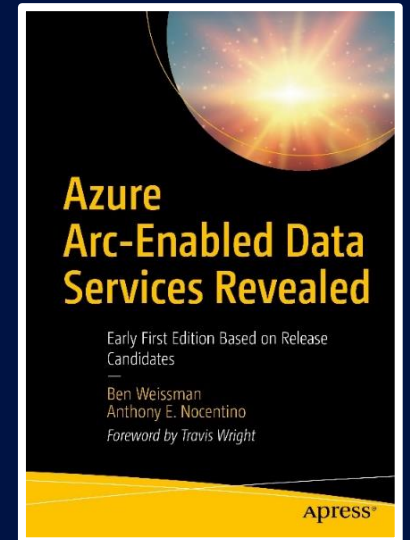


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## Thank You For Your Time!



