

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

Ben Weissman (he/him)

 @bweissman

Who am I?

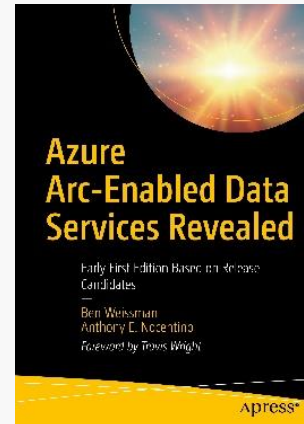
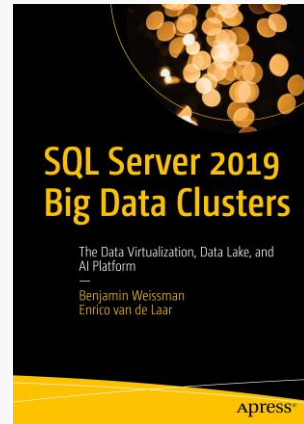
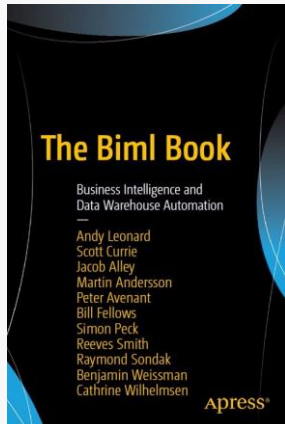
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SQL Server since 6.5

Data Passionist



Certified Data Vault Modeler



Data Science
Big Data
Artificial Intelligence
Data Analysis



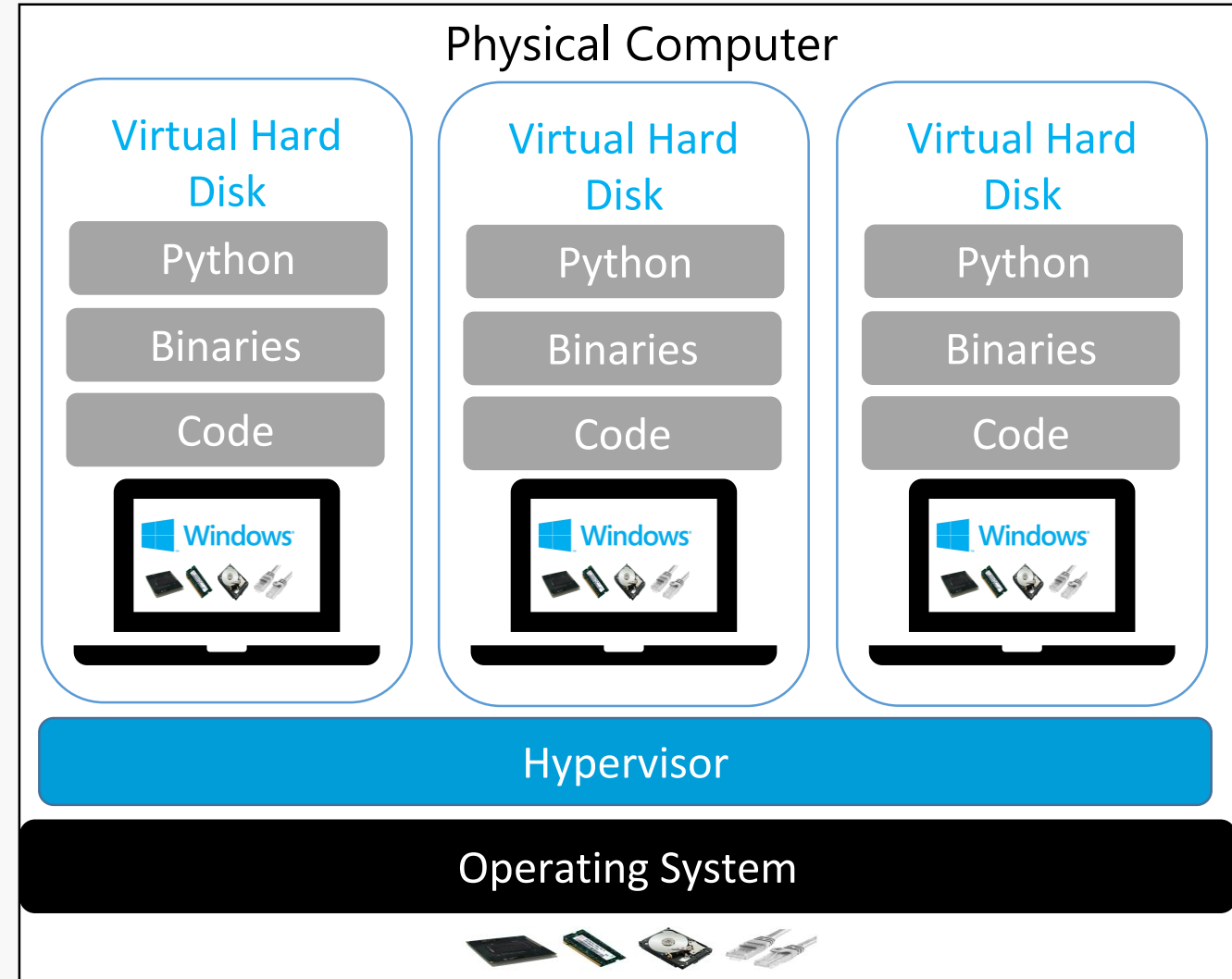
Virtualization

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

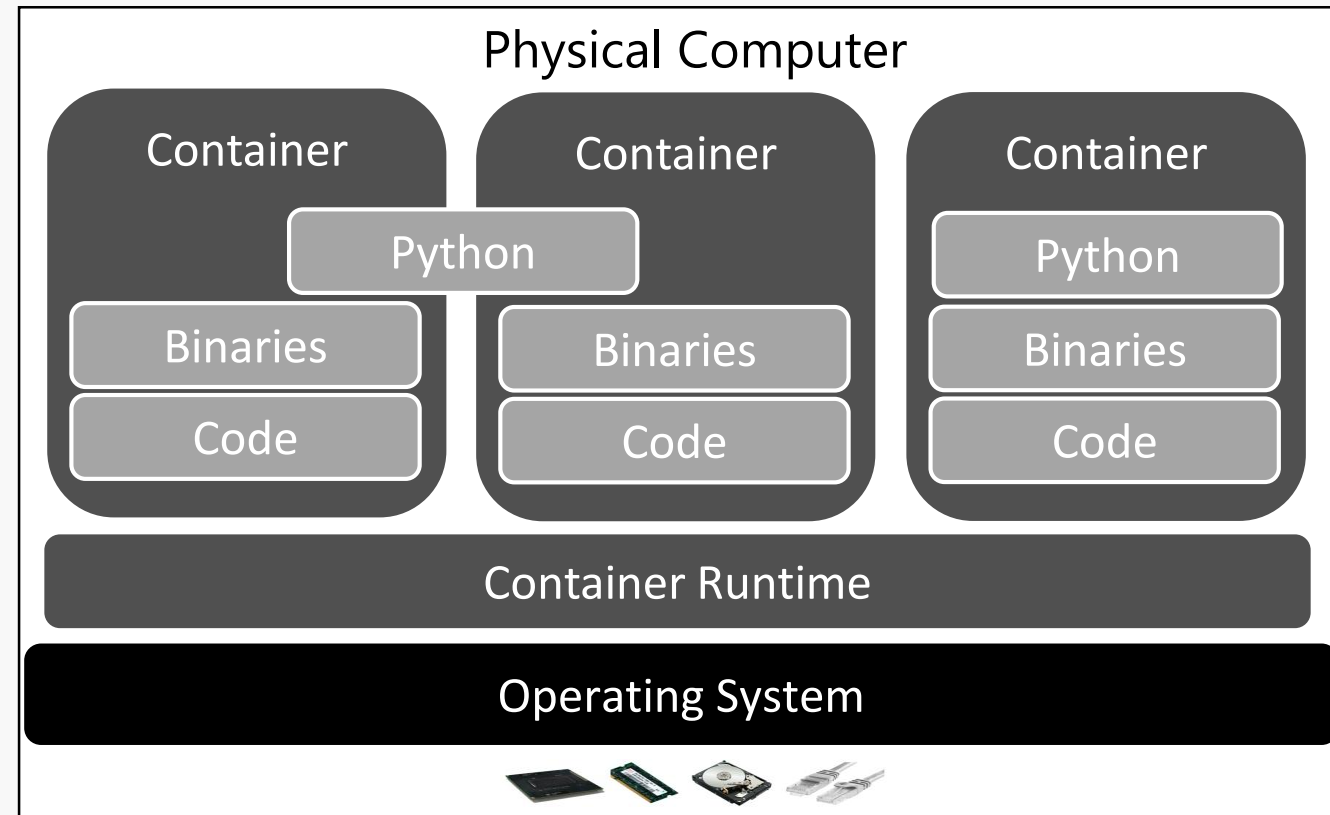


Abstracting the OS, allowing complete portability

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

Storage and networking are a consideration

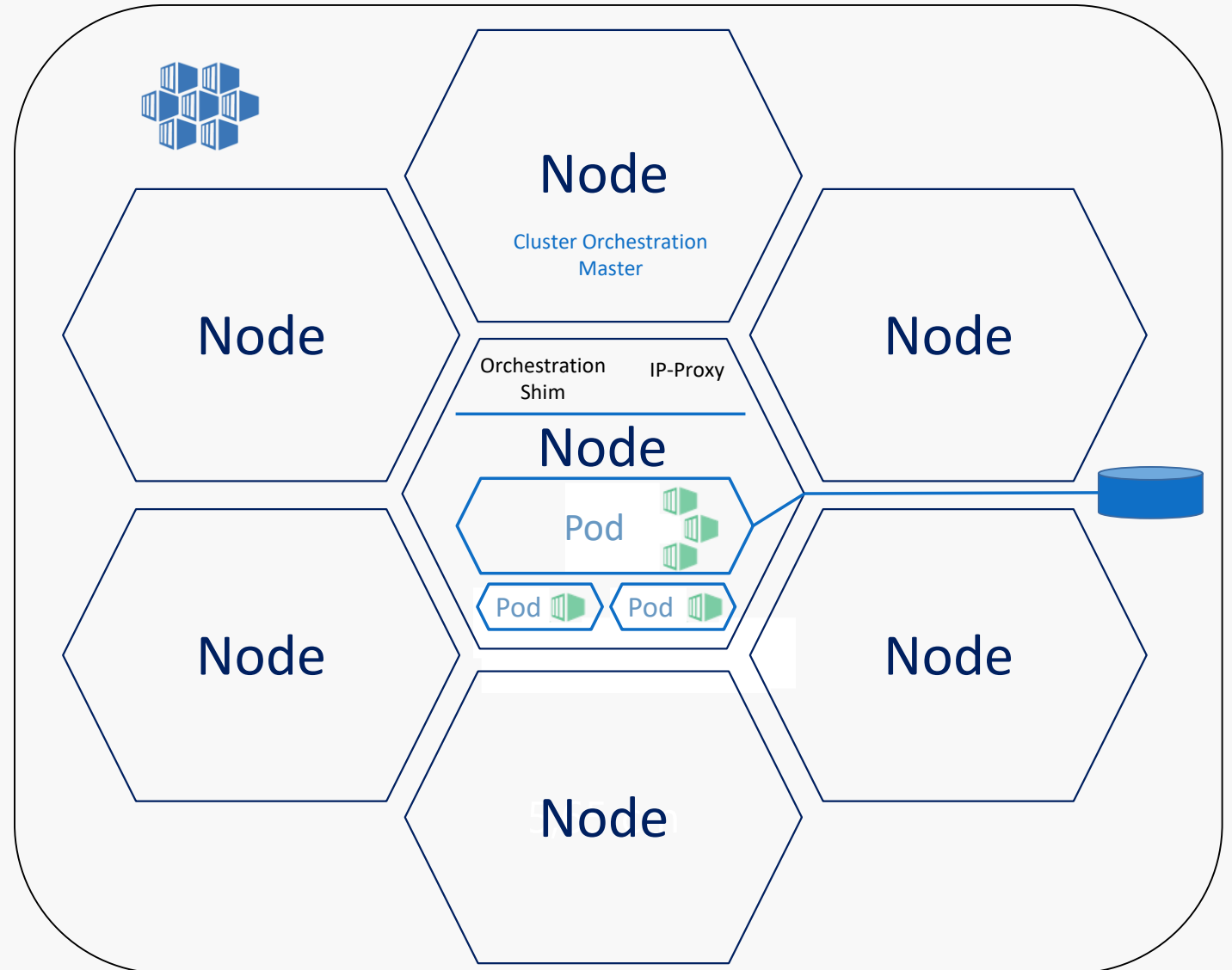
Scale is achieved through multiple containers



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



Want to learn more...

...without all that tech stuff?



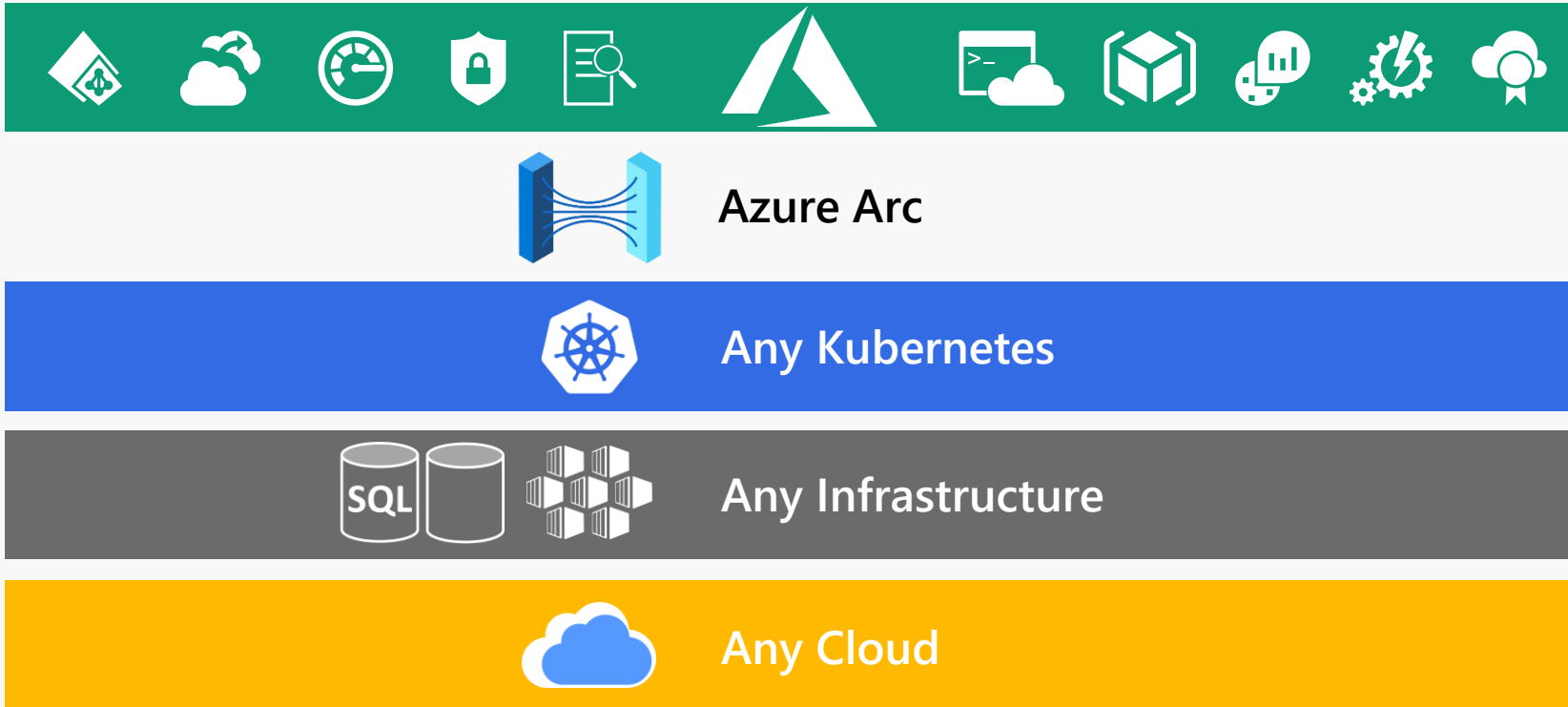
<https://www.cncf.io/wp-content/uploads/2019/07/The-Illustrated-Childrens-Guide-to-Kubernetes.pdf>

Or talk to this guy...



 @nocentino

Azure Arc



Azure Arc-enabled Data Services



Managed
Instance



PostgreSQL
HyperScale

Targets for Azure Arc-enabled Data Services

Azure Kubernetes
Service



AWS EKS

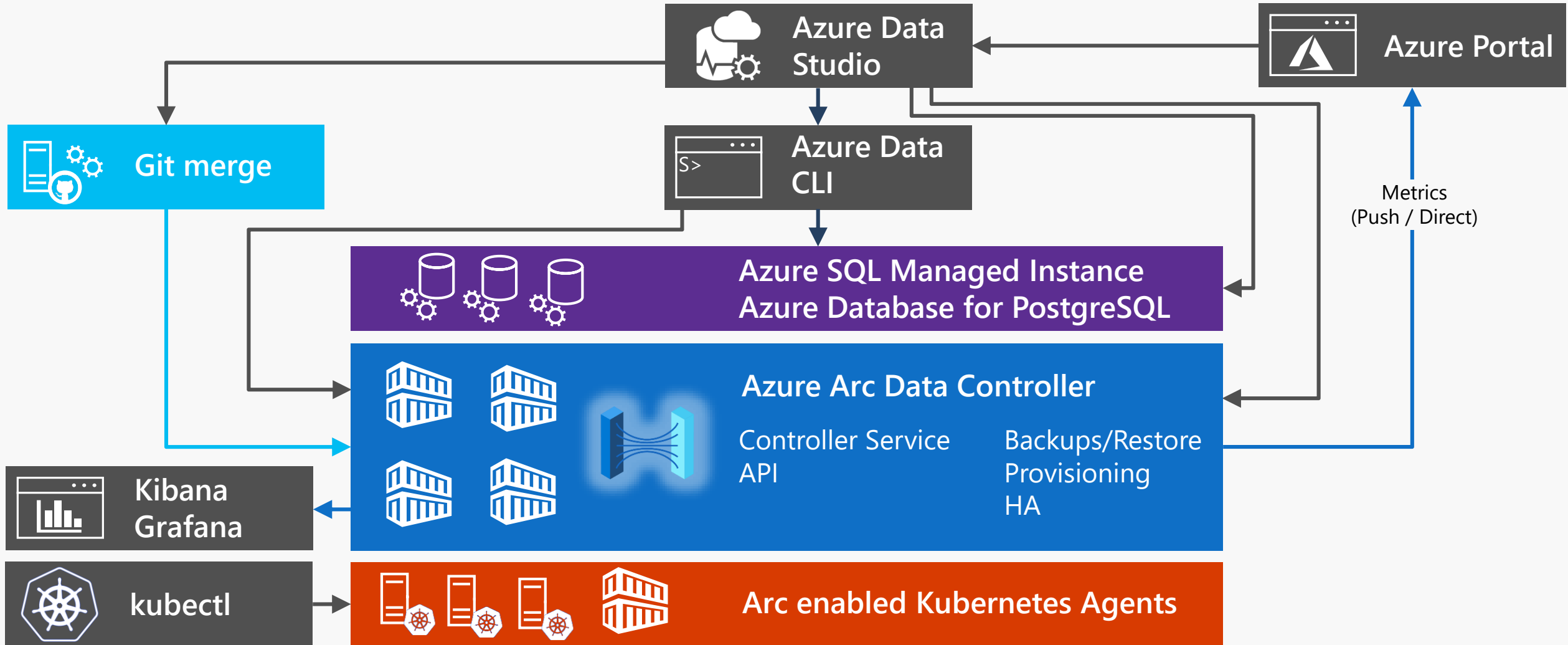


kubeadm on
Ubuntu VM



...

Azure Arc-enabled Data Services



Tools



Use a Package Manager!

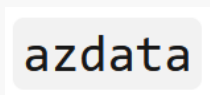
Arc Prerequisites



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



#GlobalAzure

Questions?

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bookmark.ws/...



[ArcDemos](#)

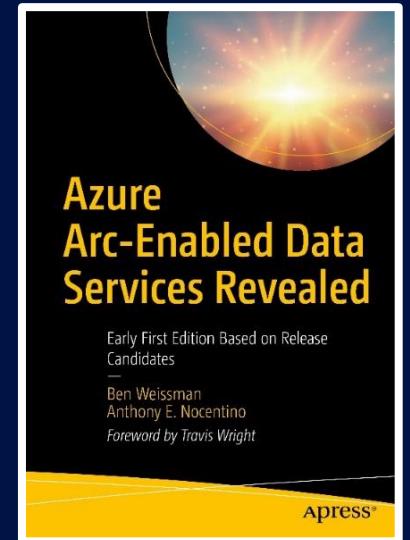


[ArcGlobalAzure](#)



PLURALSIGHT

[ArcDataCourse](#)



[ArcDataBook](#)

Thank You For Your Time!



