



 PASS
SQLSATURDAY
VIENNA | 15 JAN 2021



Ben Weissman (he/him)

 @bweissman

A scenic landscape photograph of a mountain range under a blue sky with white clouds. A paraglider is visible in the upper right portion of the sky.

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

Gold

Quest[®]


dbWatch

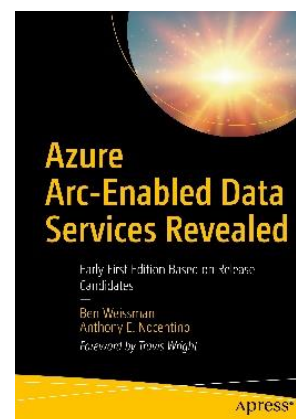
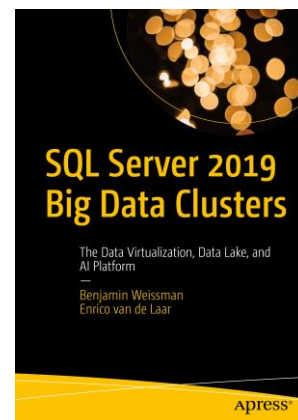
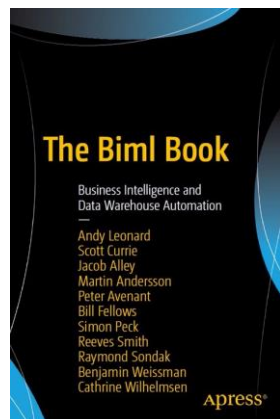
Silver



Global



- › Ben Weissman, he/him, Solisyon
- ›  @bweissman
- › b.weissman@solisyon.de
- › SQL Server since 6.5
- › Data Passionist



PLURALSIGHT



Certified Data Vault Modeler



Data Science
Big Data
Artificial Intelligence
Data Analysis

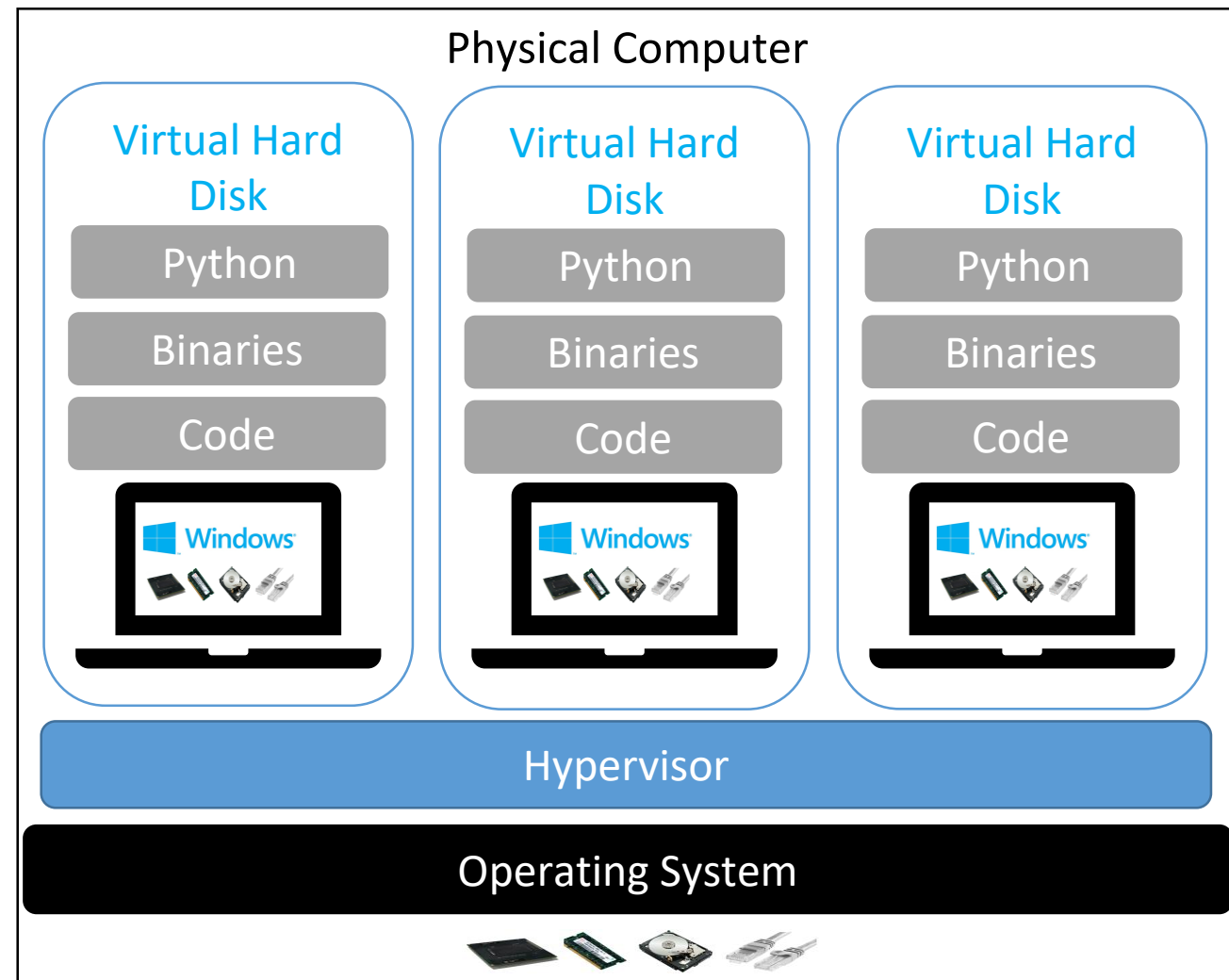


Hardware Abstraction



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



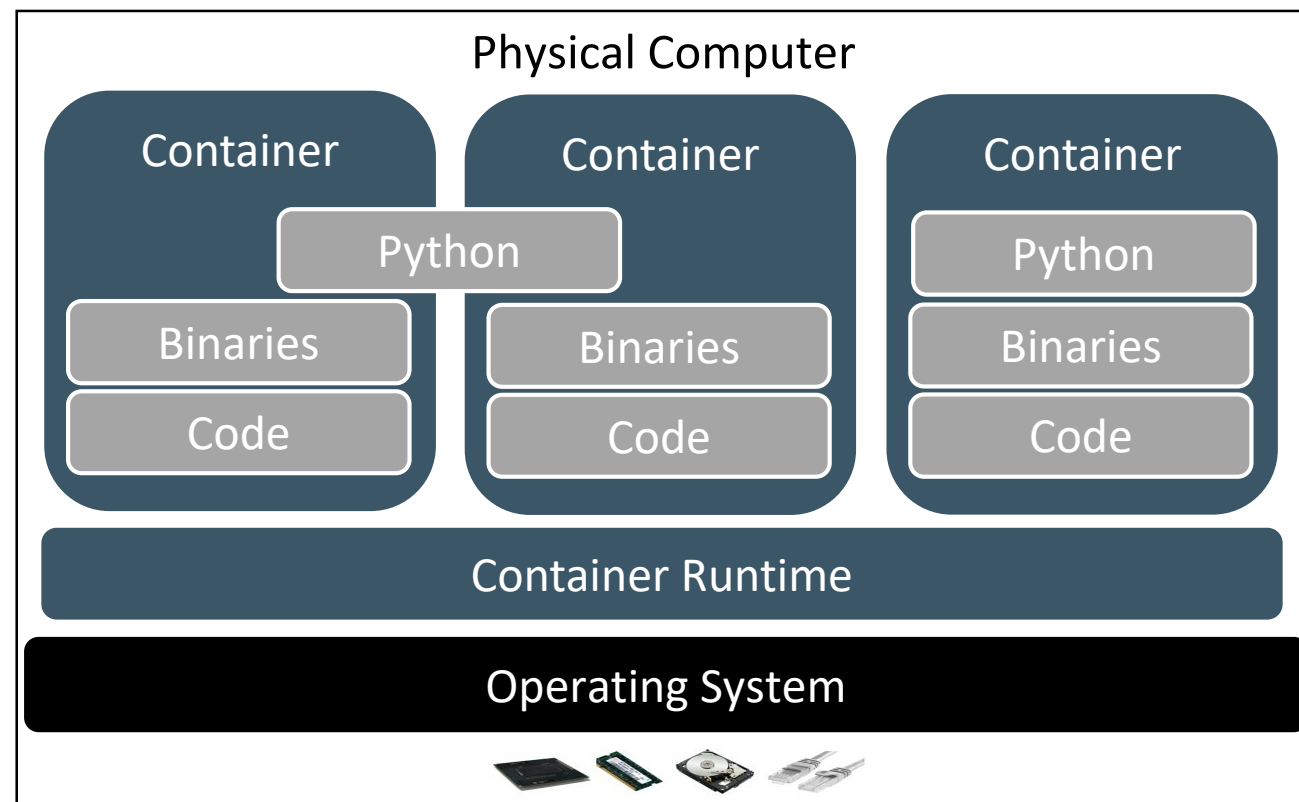
Abstracting the OS, allowing complete portability



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

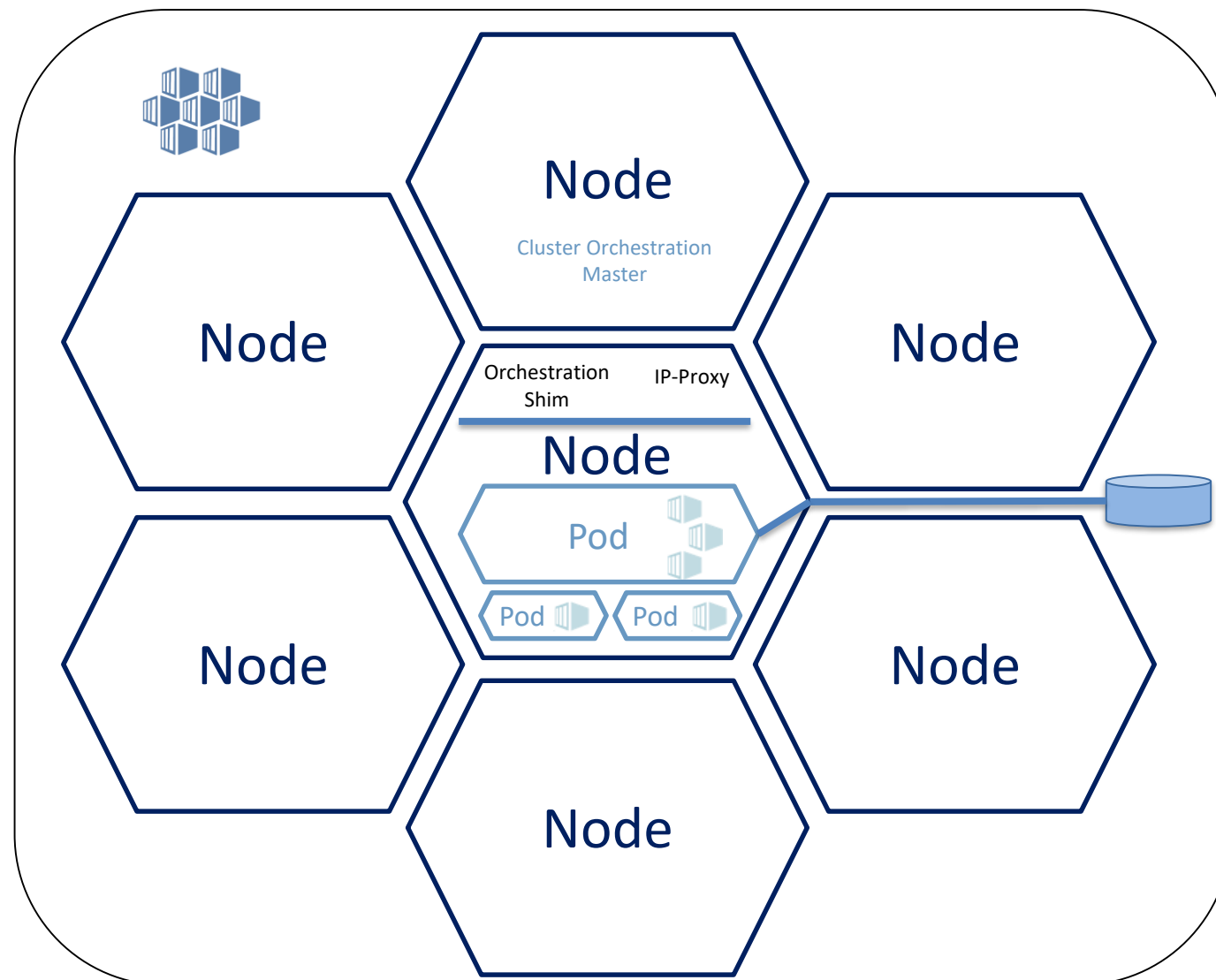
Storage and networking are a consideration

Scale is achieved through multiple containers



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*



...without all that tech stuff?

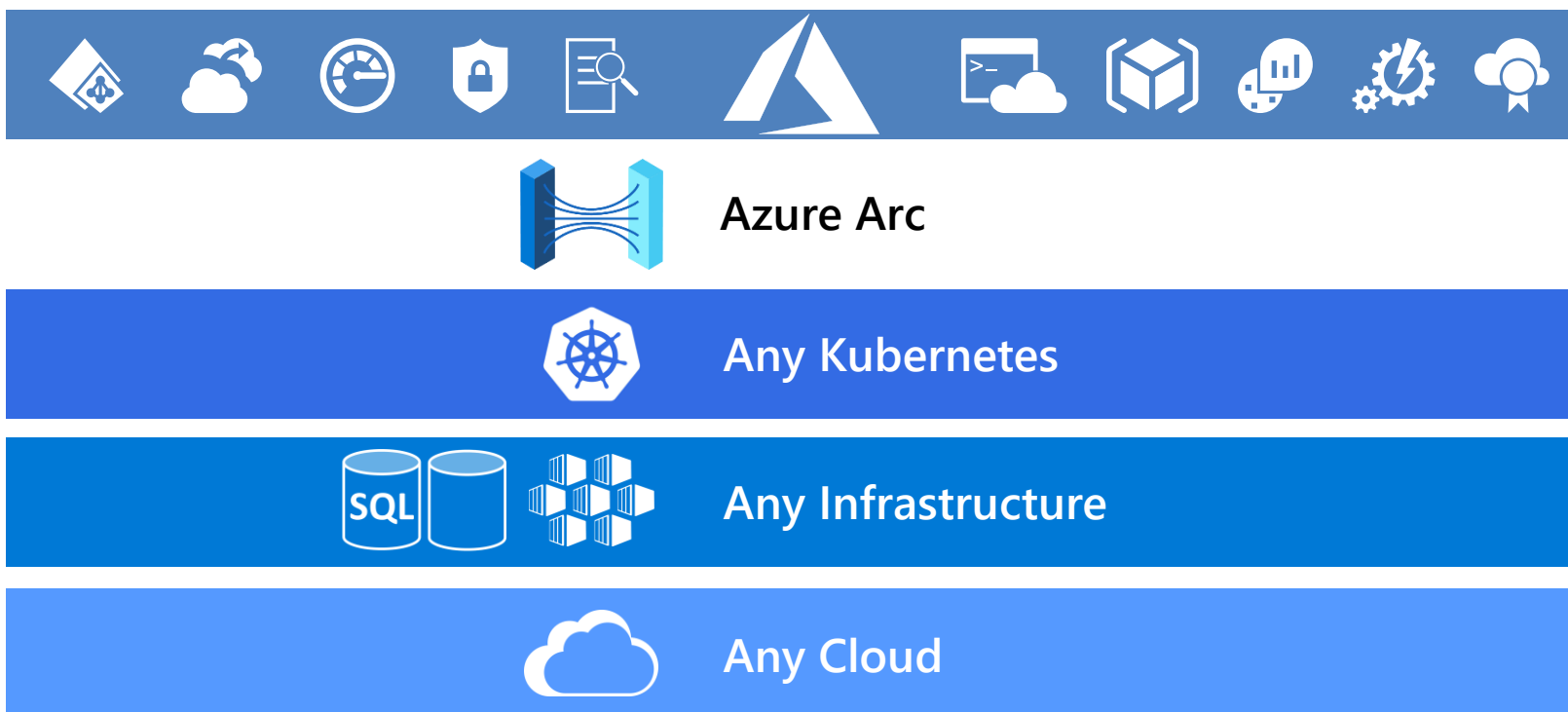


<https://www.cncf.io/wp-content/uploads/2019/07/The-Illustrated-Childrens-Guide-to-Kubernetes.pdf>

Or talk to this guy...



 @nocentino





Managed
Instance

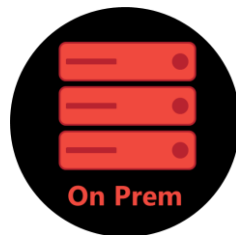


PostgreSQL
HyperScale

Azure Kubernetes
Service



kubeadm on
Ubuntu VM



AWS EKS



...





Use a Package Manager!

Arc Prerequisites



kubectl

azdata

azdata



Azure Data Studio
(Only for GUI experience)



azure-cli
(Only for Azure deployments)

Good to Have...



Notepad++



SQL Server
command line utilities



7Zip




PuTTY

Demo!



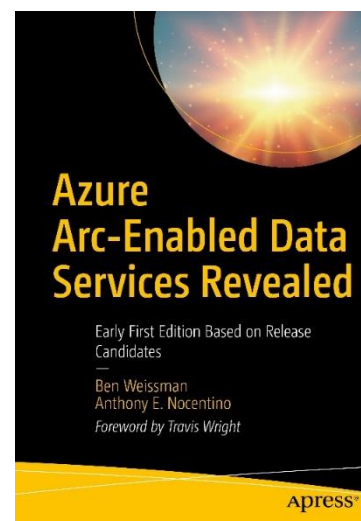
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bookmark.ws/ArcDemos



bookmark.ws/ArcDataBook



bookmark.ws/ArcVienna

Thank You For Your Time!