

# Deep dive into Kubernetes on Azure

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# whoami



- Open Source Consultant at Microsoft
- DevOps , Open Source, Cloud developer/architect, integration and tech pre-sales
- Working with Azure, Kubernetes, microservices and API management
- Speaker - Microsoft Ignite, Container Camp, API Days, GAB, GIB, NDC, Meetups, ....
- Former Azure MVP – Microsoft Most Valuable Professional
- Container and DevOps community member
- Developed for Linux in early 2000s

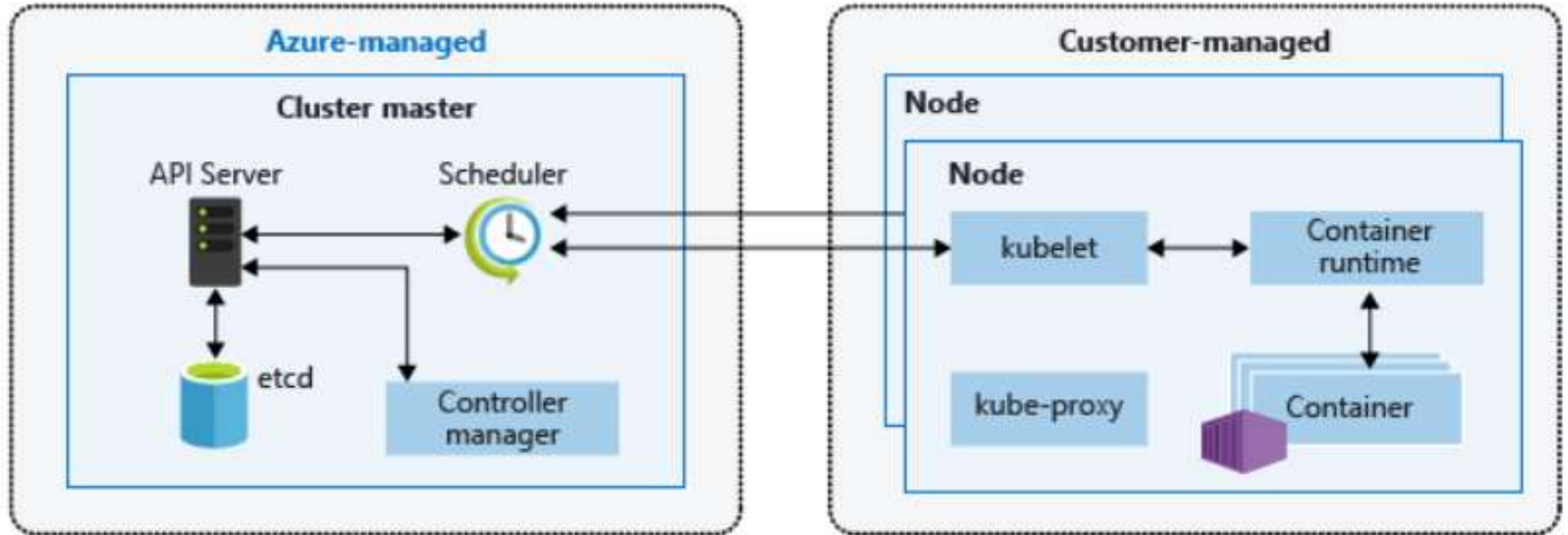


# Agenda

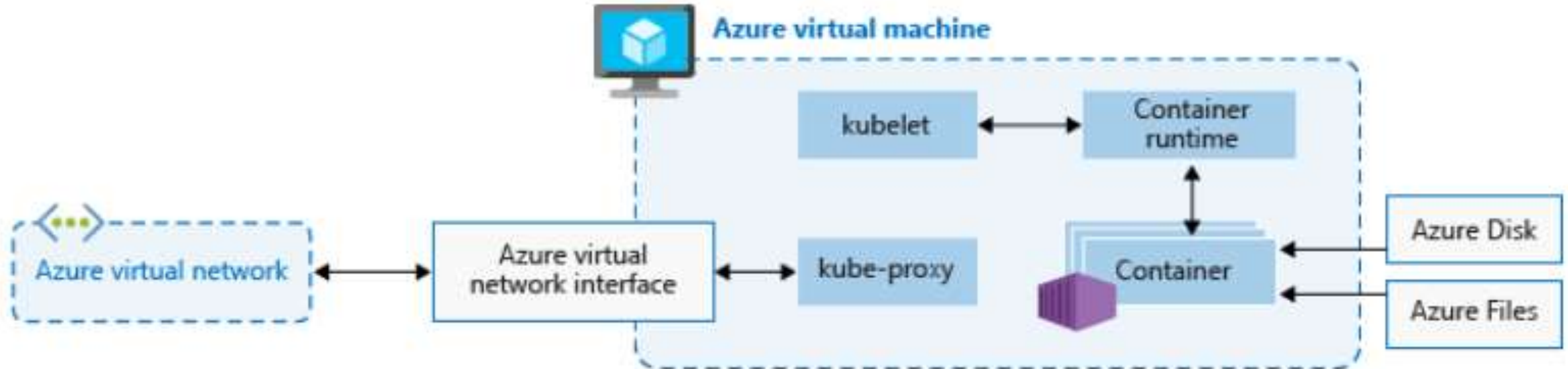
- AKS Architecture
- AKS Node Pools
- Helm
- Demos / Use case discussions



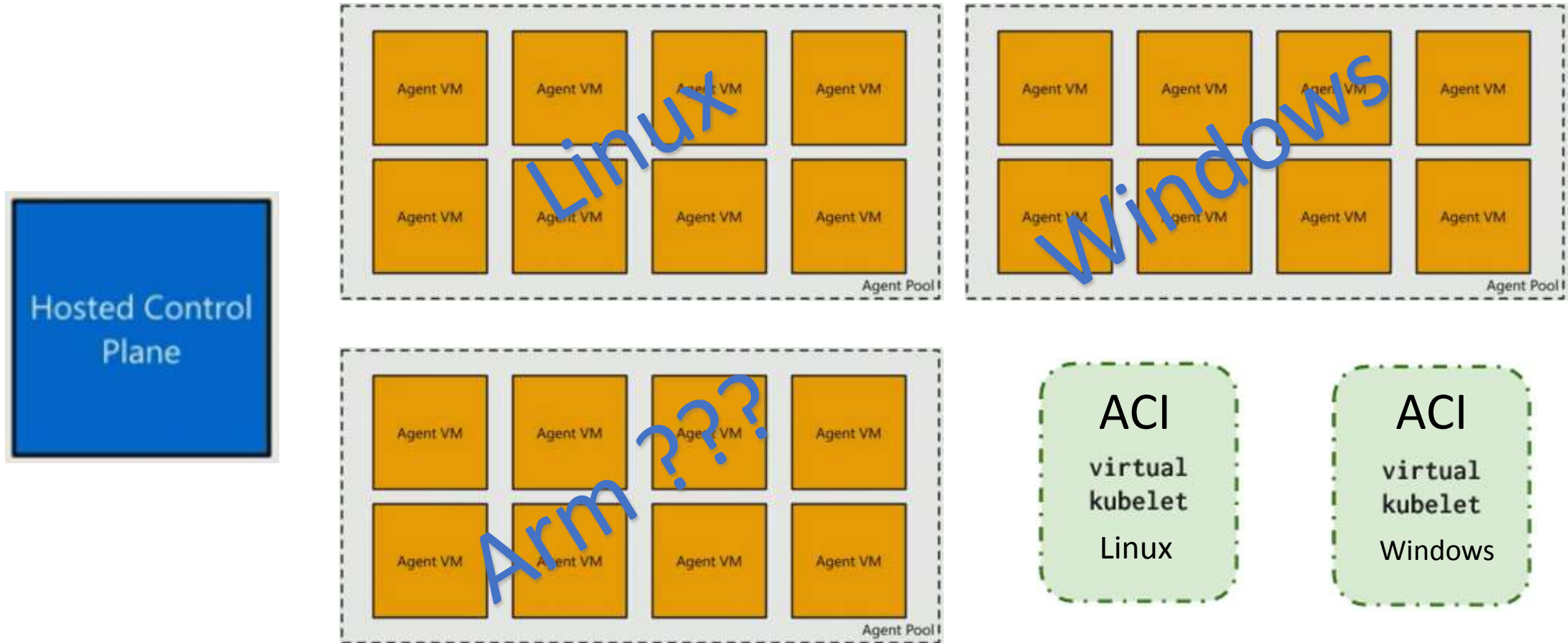
# AKS Cluster Architecture



# AKS Azure VNet integration

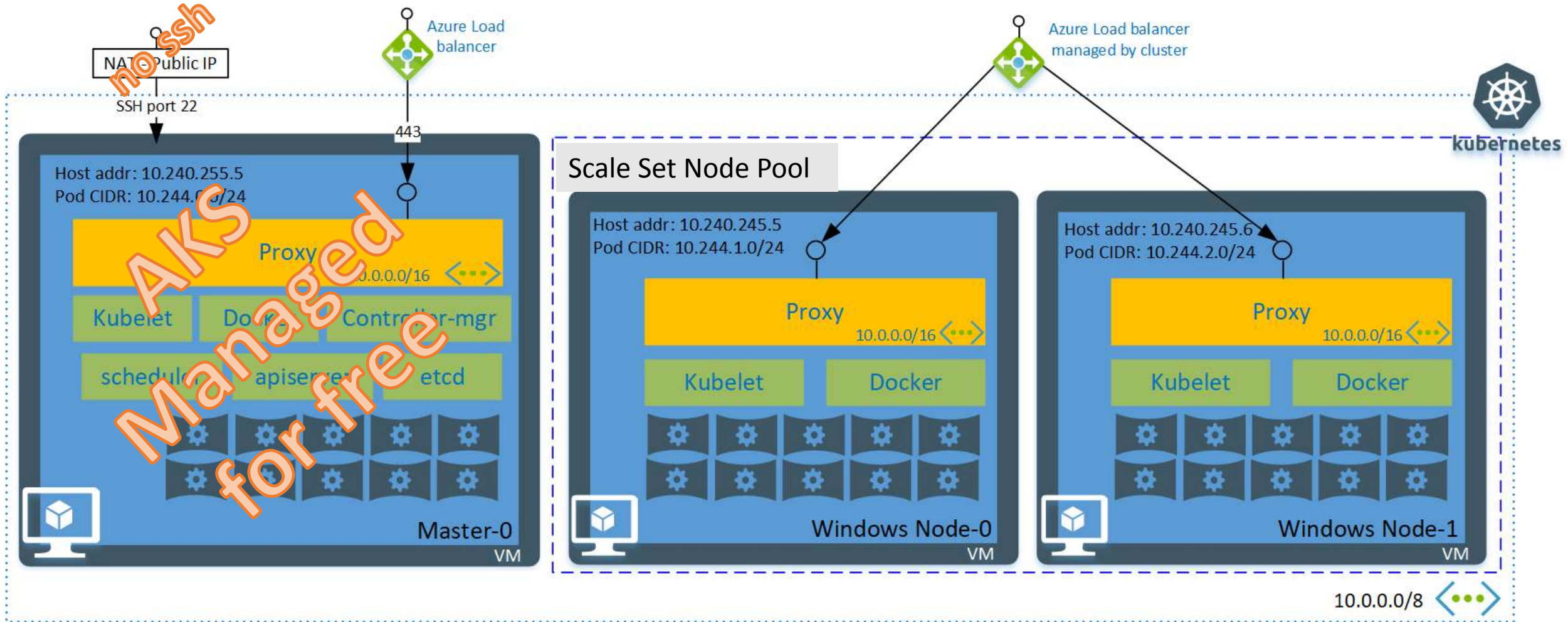


# AKS new Node Pool using Azure VM Scale Sets





# AKS Windows pool – Coming soon



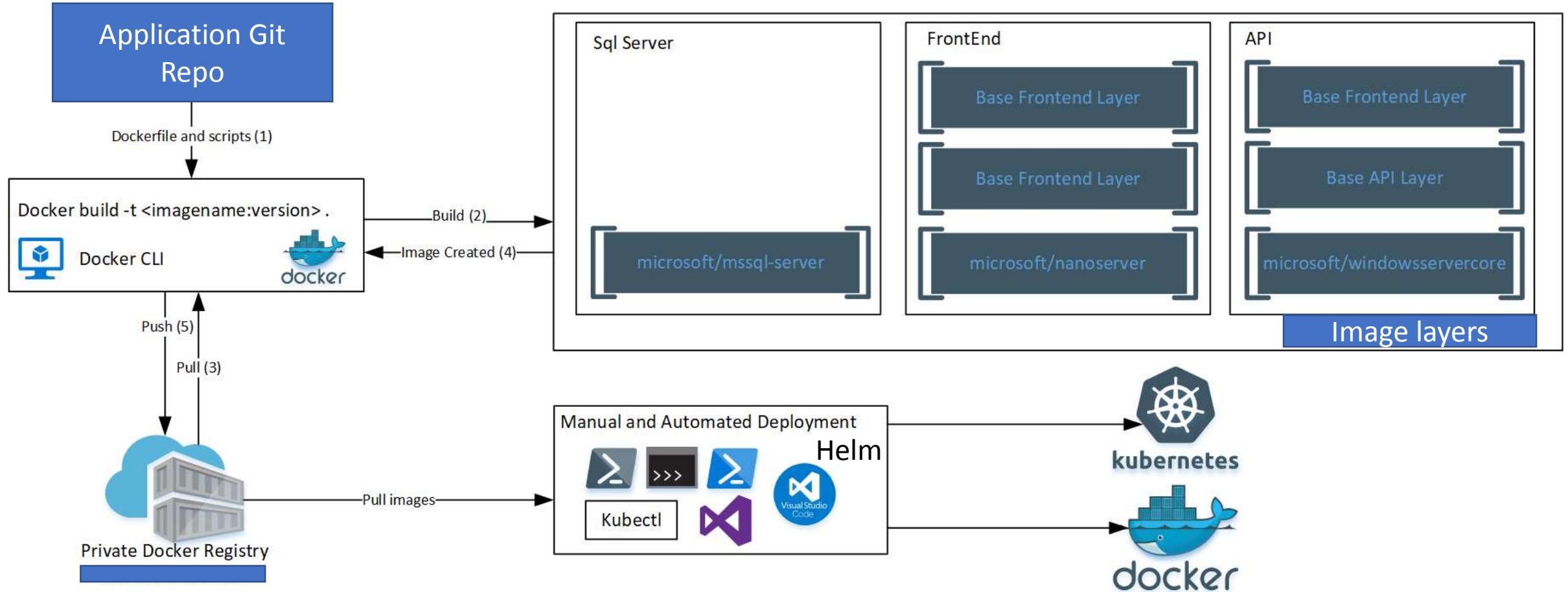
# Install Client Tools

- Docker for Windows (Including local single node Kubernetes)
- Docker Hub Account <https://hub.docker.com/>
- Visual Studio Code
- Visual Studio 2019
- Use Azure Cloud Shell <https://shell.azure.com/>
- WSL – Windows Subsystem for Linux
- Azure CLI
- Helm <https://helm.sh/>





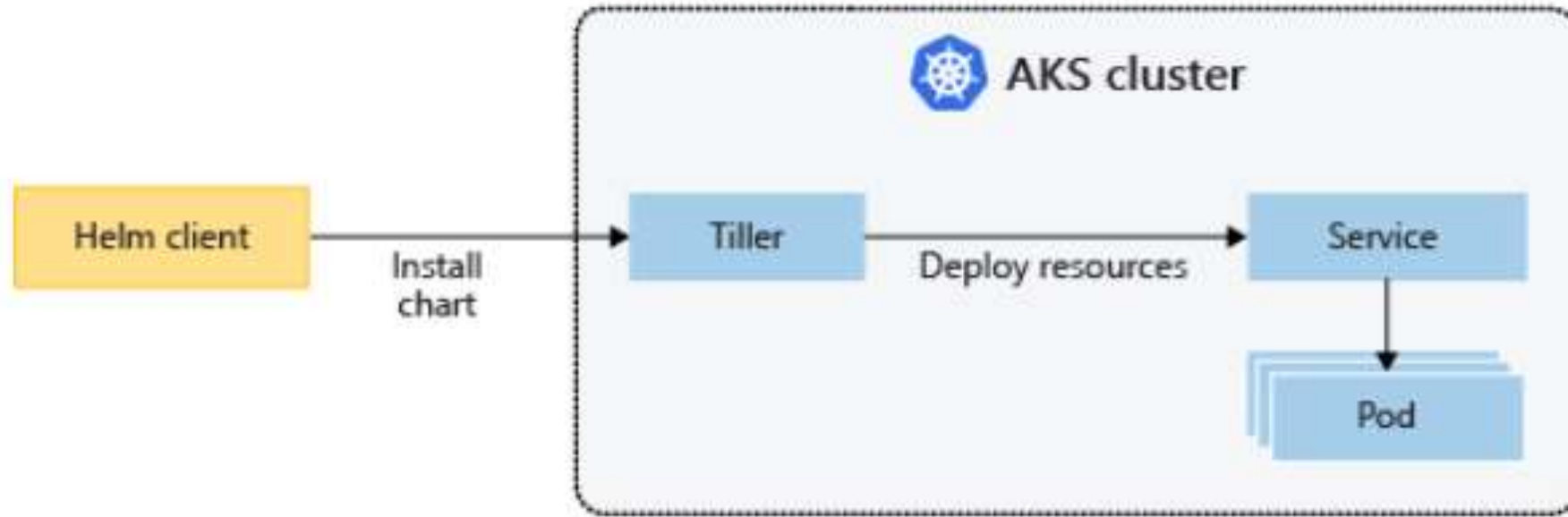
# From Source code to Kubernetes



## Helm as your Package Management



# Helm as your Package Management



# Let's Demo



# Thanks!

<https://aksworkshop.io/>

<https://azure.microsoft.com/mediahandler/files/resourcefiles/kubernetes-learning-path/Kubernetes%20Learning%20Path%20v4.pdf>

<https://docs.microsoft.com/en-us/azure/architecture/reference-architectures/microservices/aks>

<https://docs.microsoft.com/en-us/azure/container-registry/container-registry-helm-repos>

<https://github.com/Azure/AKS/blob/master/previews.md#virtual-machine-scale-sets-vmss--cluster-autoscaler>

<https://github.com/scotty-c/kubernetes-on-azure-workshop>

<https://github.com/mspnp/microservices-reference-implementation>

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