



# Azure Infrastructure as Code Bootcamp

Session 2 of 6: Azure Compute Services

Session materials repository: [timw.info/inebootcamp](http://timw.info/inebootcamp)



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# Bootcamp Overview

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- + Session 1: Infrastructure as Code
- + **Session 2: Azure Compute Services**
- + Session 3: Azure Network Services
- + Session 4: Azure High Availability & Fault Tolerance
- + Session 5: Azure Storage Services
- + Session 6: Identity and Access Management



## Session 2 Agenda

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- + Day 1
  - + Azure compute services tour
  - + Azure Virtual Machines
- + Day 2
  - + Azure App Service
- + Day 3
  - + Azure Container services



## Course Materials

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# Reference Material

On the boot camp page

or

[timw.info/inebootcamp](http://timw.info/inebootcamp)



# Azure Compute Services Tour



## Azure Compute Service Family

- + Azure Virtual Machines
  - + VM Scale Sets (VMSS)
  - + Azure Batch



# Azure Compute Service Family

- + Azure App Service
  - + Web Apps
  - + Functions
  - + Logic Apps



## Azure Compute Service Family

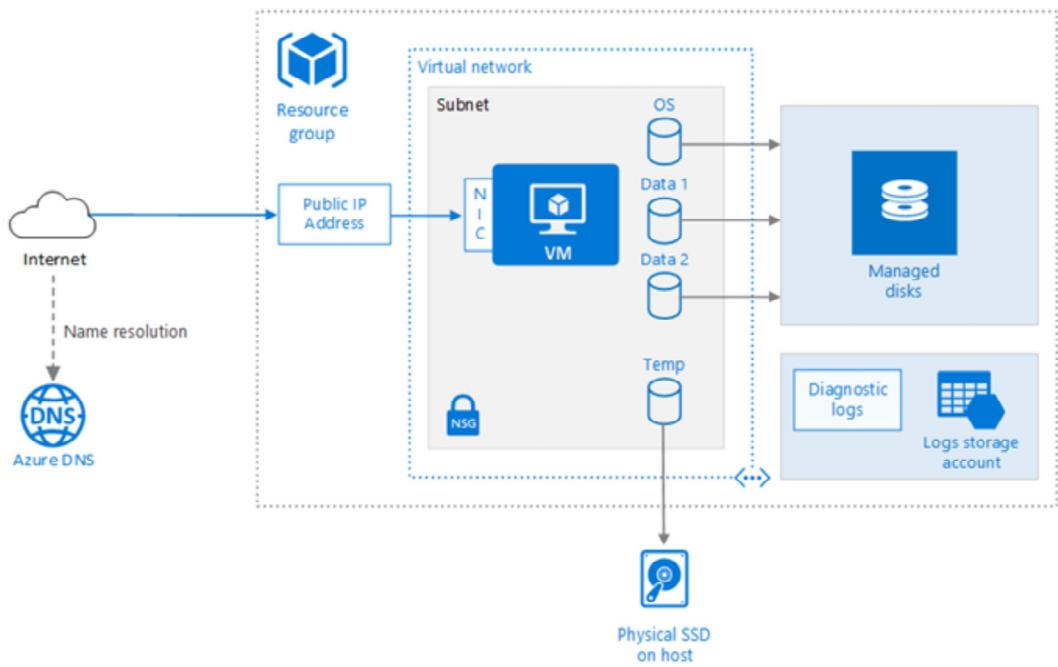
- + Azure Container Registry (ACR)
- + Azure Container Instance (ACI)
- + Azure Kubernetes Service (AKS)



# Azure Virtual Machines



# Azure Virtual Machines



XINE

timw.info/hyd



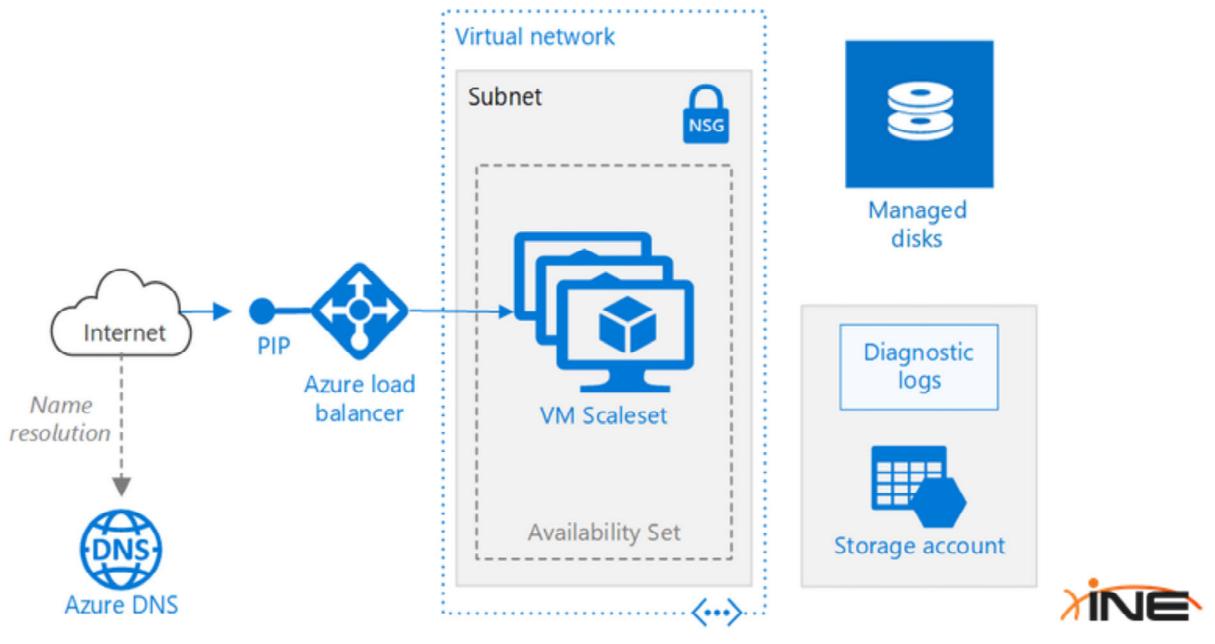
**Demo 1 of 2:**  
**VM Deployment and**  
**Configuration**



# Virtual Machine Scale Sets



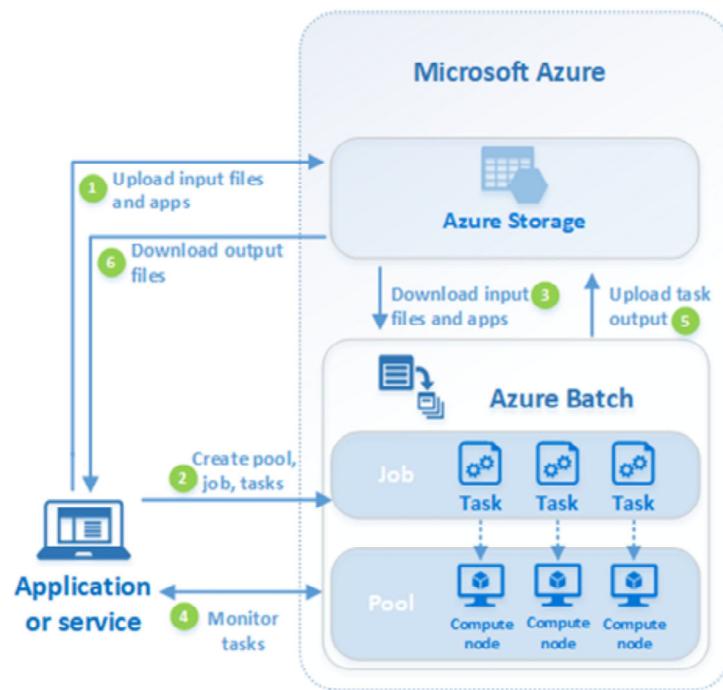
# Virtual Machine Scale Sets



# Azure Batch



# Azure Batch



timw.info/c0q





**Demo 2 of 2:**  
**VMSS Deployment and**  
**Configuration**

XINE

# Azure App Service Tour



# Azure App Service Family

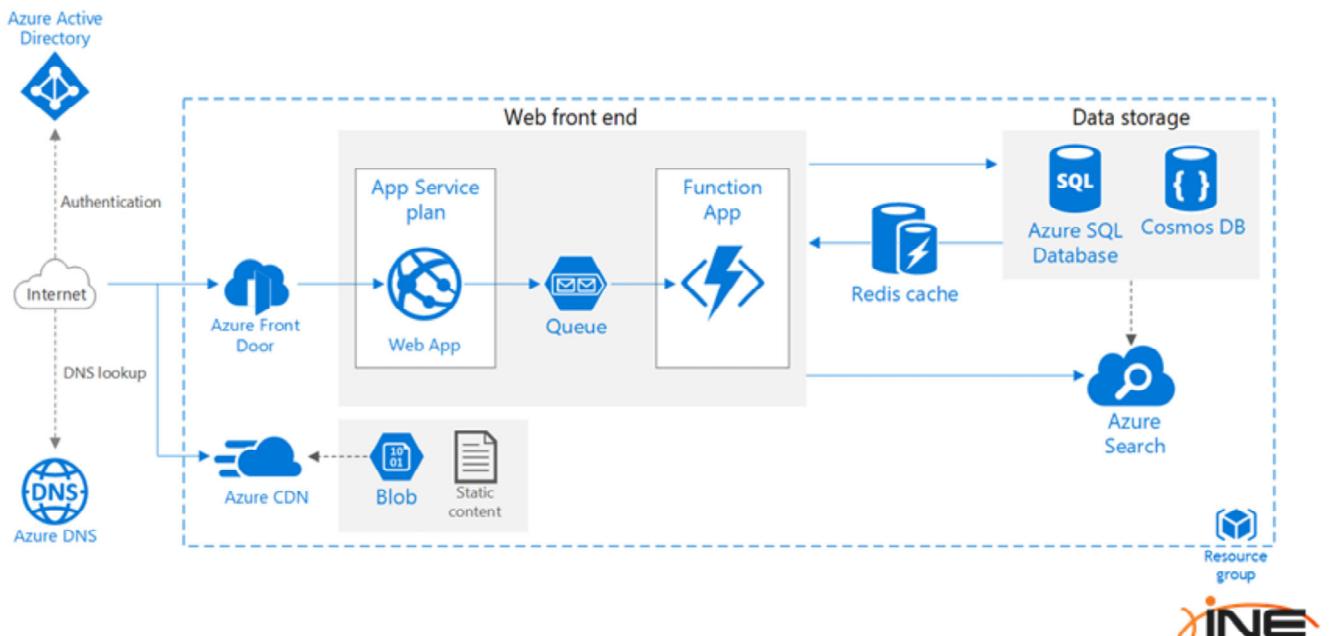
- + Web Apps
- + Functions
- + Logic Apps
- + API Management



# Azure App Service



# Azure App Service



timw.info/ftz





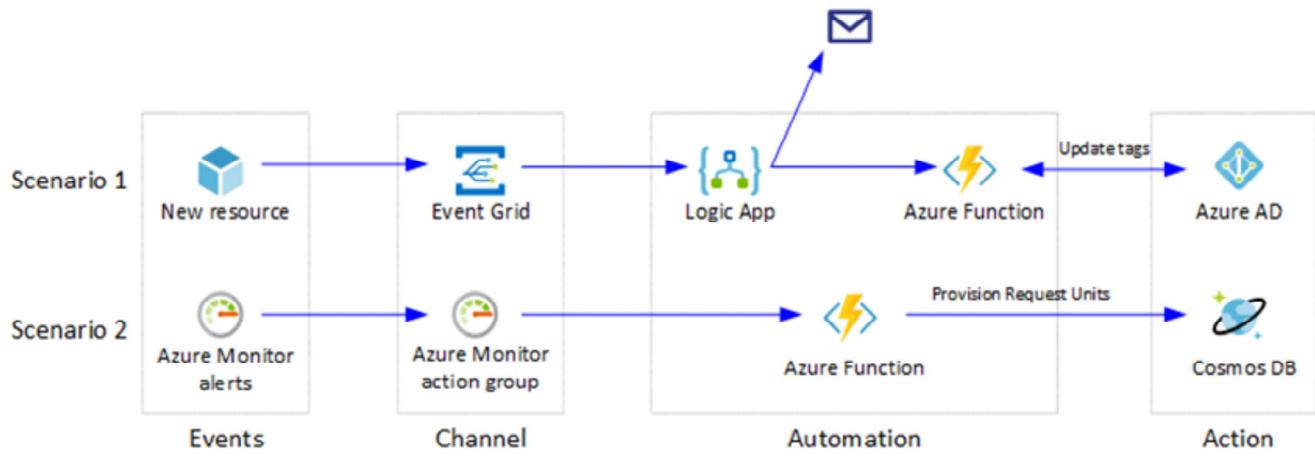
**Demo 1 of 2:**  
**Deploy and Manage Azure**  
**Web Apps**



# Azure Functions



# Azure Functions



[timw.info/u85](http://timw.info/u85)





**Demo 2 of 2:**  
**Deploy and Manage Azure**  
**Functions**

# Azure Container Services Tour



## Azure Container Services Family

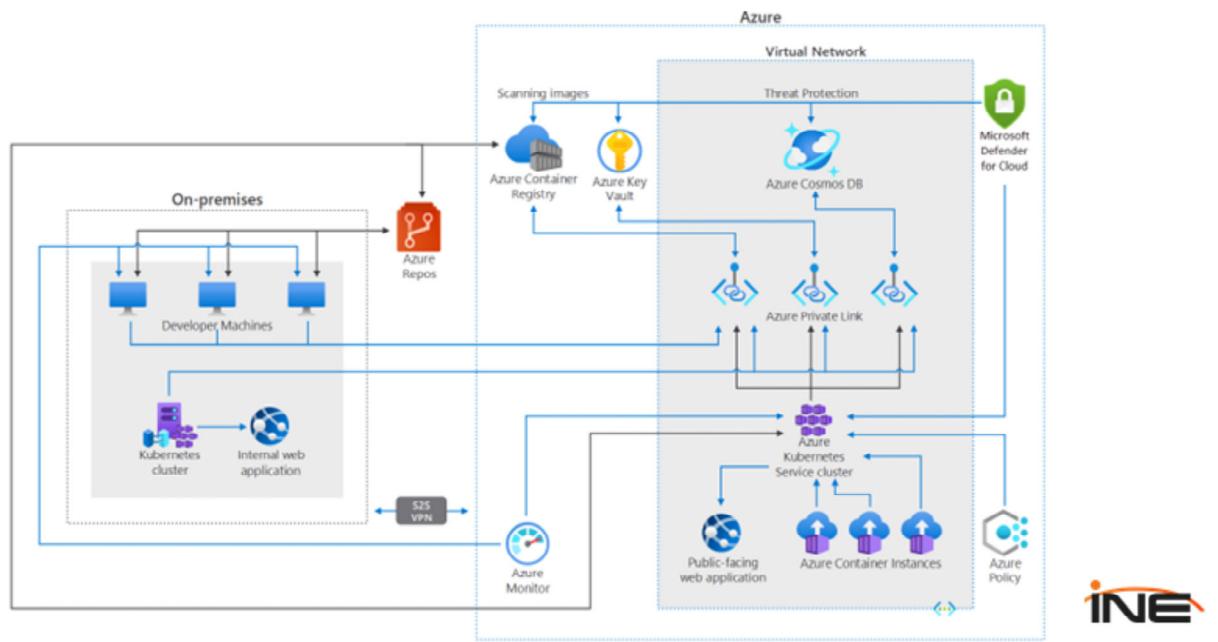
- + Azure VM container hosts
- + Azure Container Registry (ACR)
- + Azure Container Instances (ACI)
- + Azure Kubernetes Service (AKS)



# Azure Container Registry



# Azure Container Registry



[timw.info/n5w](http://timw.info/n5w)

INE



**Demo 1 of 2:**  
**Deploy and Manage Azure**  
**Container Registry**

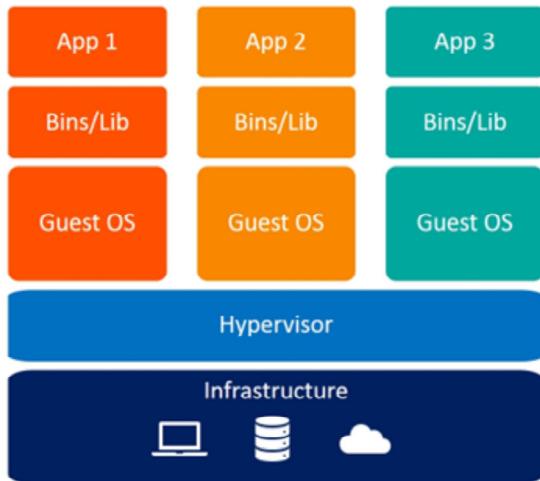
XINE



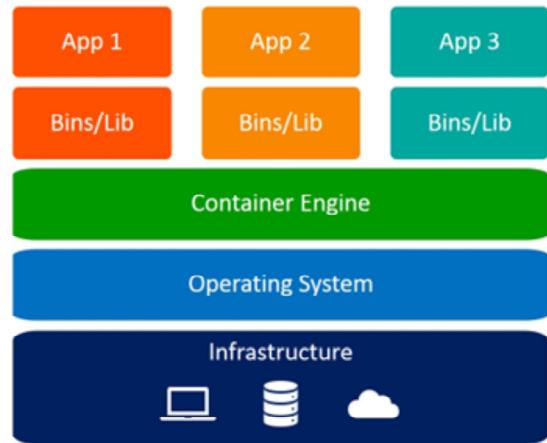
**ACI & AKS**



# VMs vs Containers



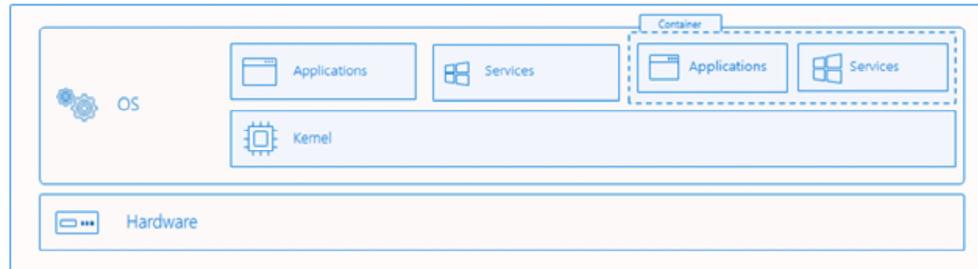
Virtual Machines



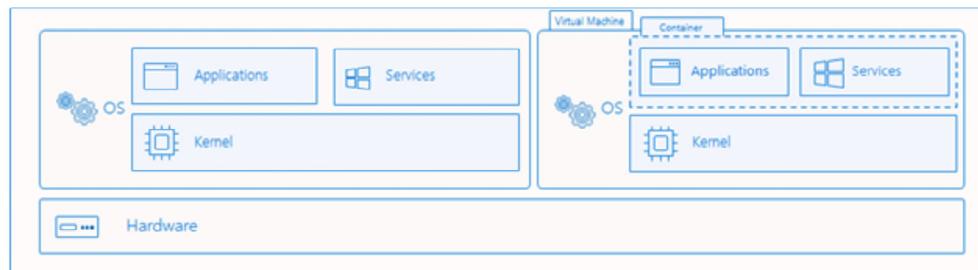
Containers



# Windows Server Containers



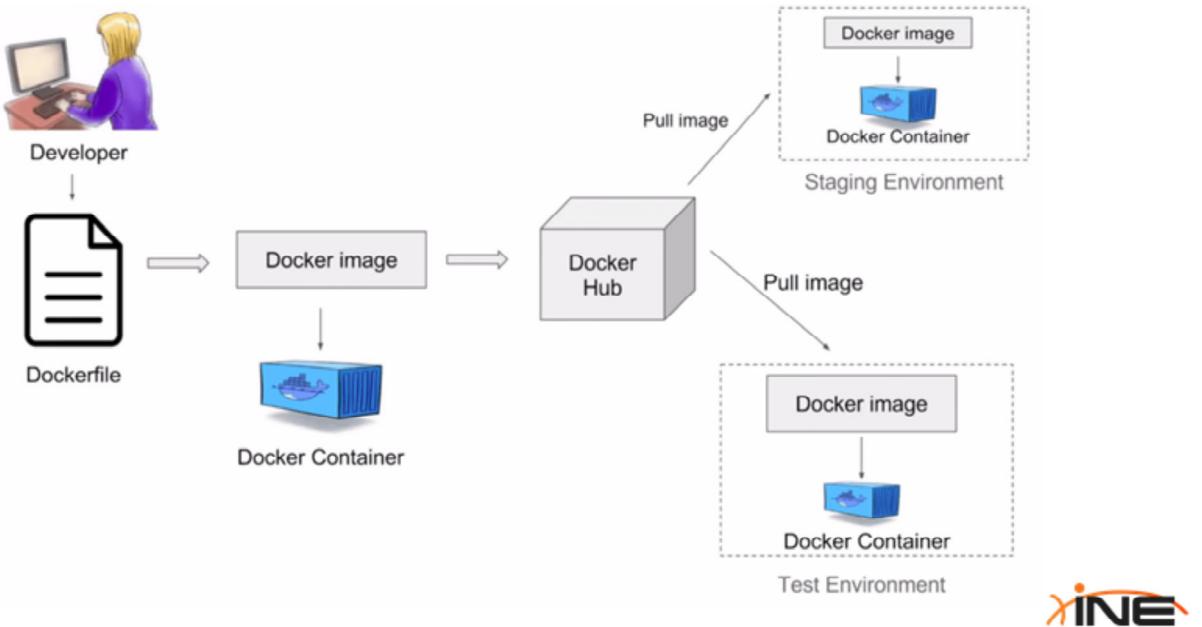
Process isolation



Hyper-V isolation



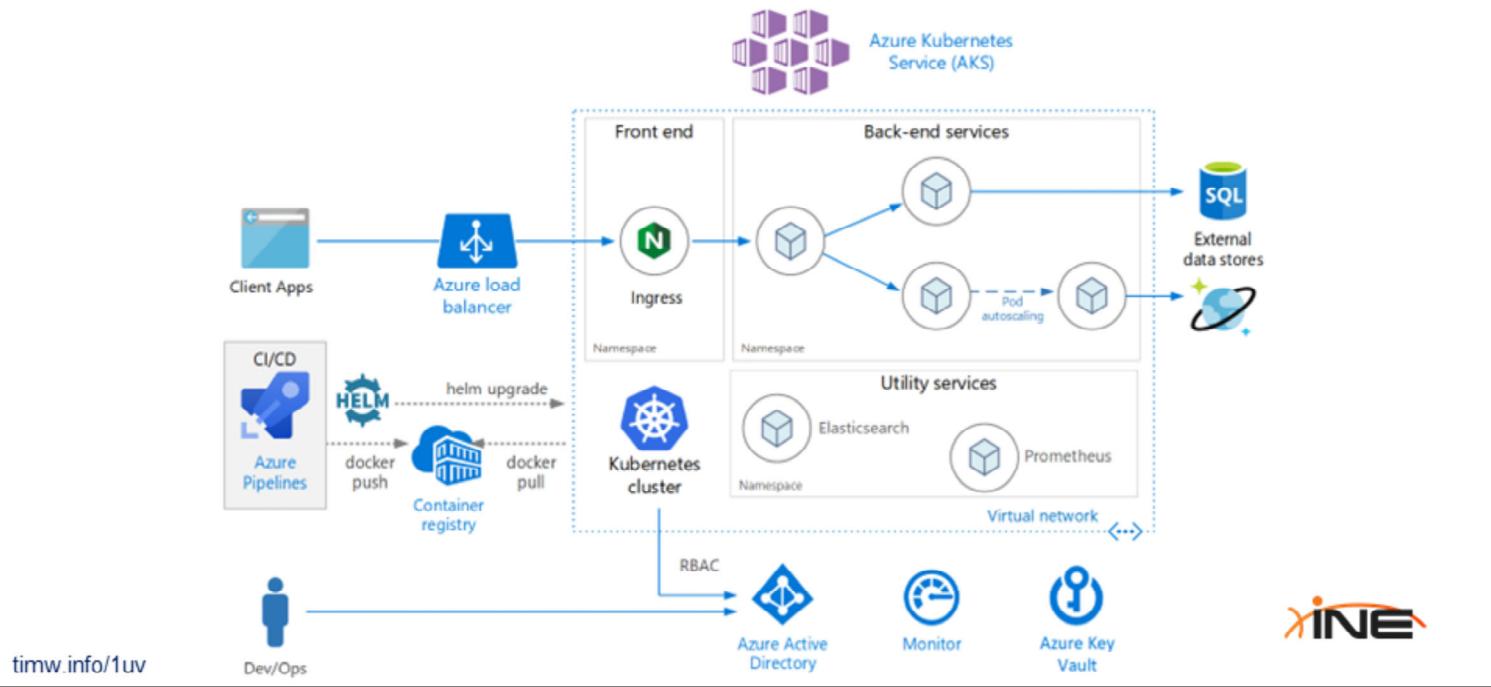
# Docker Workflow



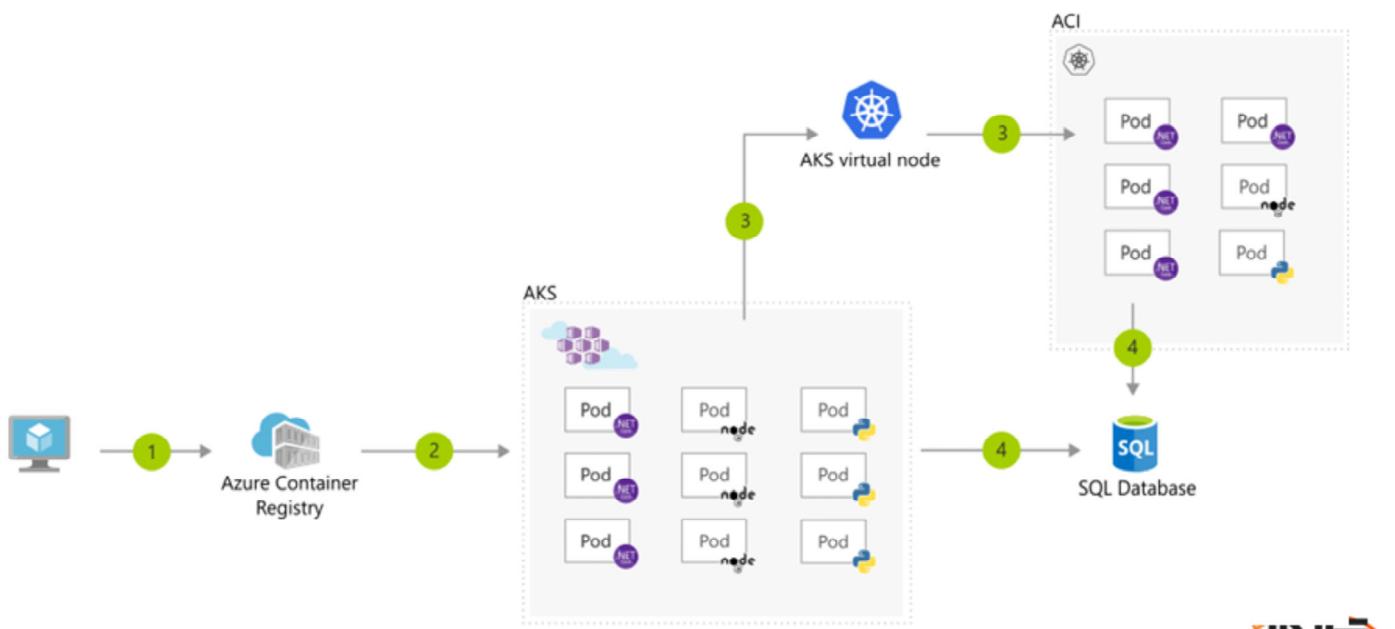
# Azure Container Instances



## Azure Kubernetes Service



# AKS + ACI



[timw.info/d9z](http://timw.info/d9z)





**Demo 2 of 2:**  
**Deploy and Manage ACI and**  
**AKS**



## Coming up...

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- + Session 3: Azure Network Services
  - + **Connectivity:** VNets, VPNs, DNS, Bastion
  - + **App Protection:** Load Balancer, NSGs, Firewall, Private Link
  - + **App Delivery:** App Gateway, Traffic Manager, Front Door

