

#### AUTHORITY PARTNERS

Advanced IT Solutions

#### **Azure Loves Containers**

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#### Speaker Introduction

- Mustafa Toroman
- Solution Architect @ Authority Partners
- @toromust
- Microsoft Azure MVP
- MCSE, MCP, MCSA, MCITP, MCSD, MCT, MS v-TSP



Before we begin...

## Why containers

Works on my machine

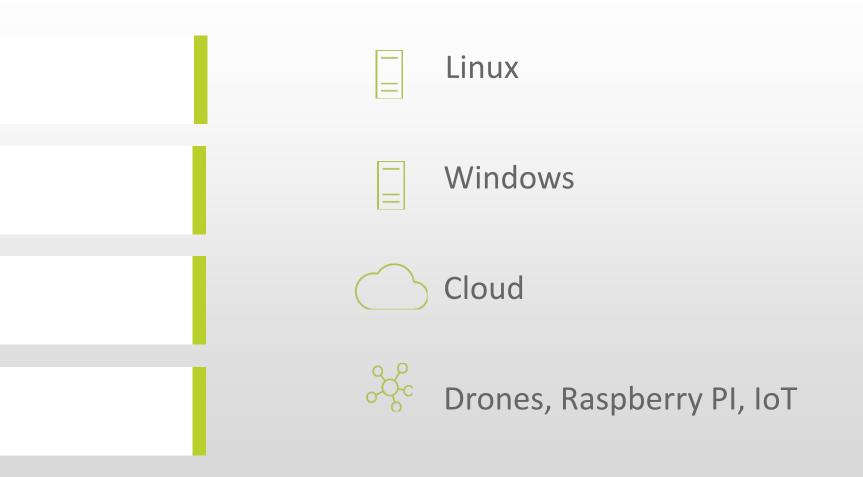
Every environment looks the same

Increased velocity

Run anywhere



### Containers run everywhere



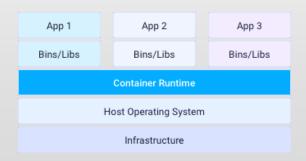
#### Containers vs. virtual machines

Docker containers

Shared host OS kernel

Portability

Faster scalability



#### Virtual machines

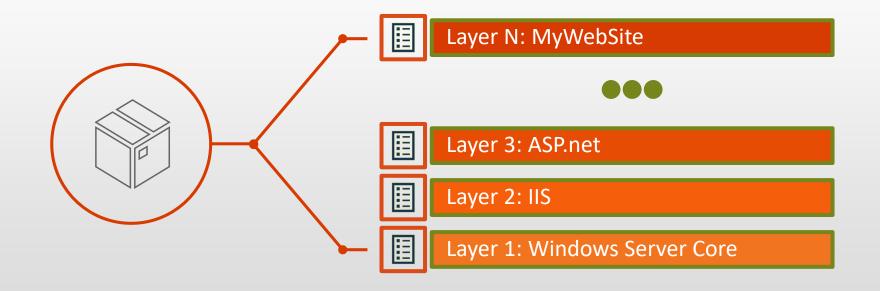
Separate OS per instance

Large footprint

Slower startup



## **Building Containers**



### What is a container registry?

A repository for storing container images

Public registries i.e. Docker Hub—free & easy

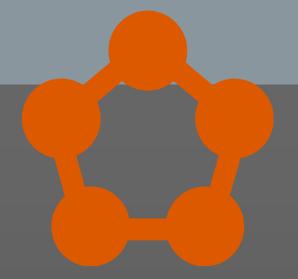
Private registries allow for efficient/

secure storage









## Service Fabric

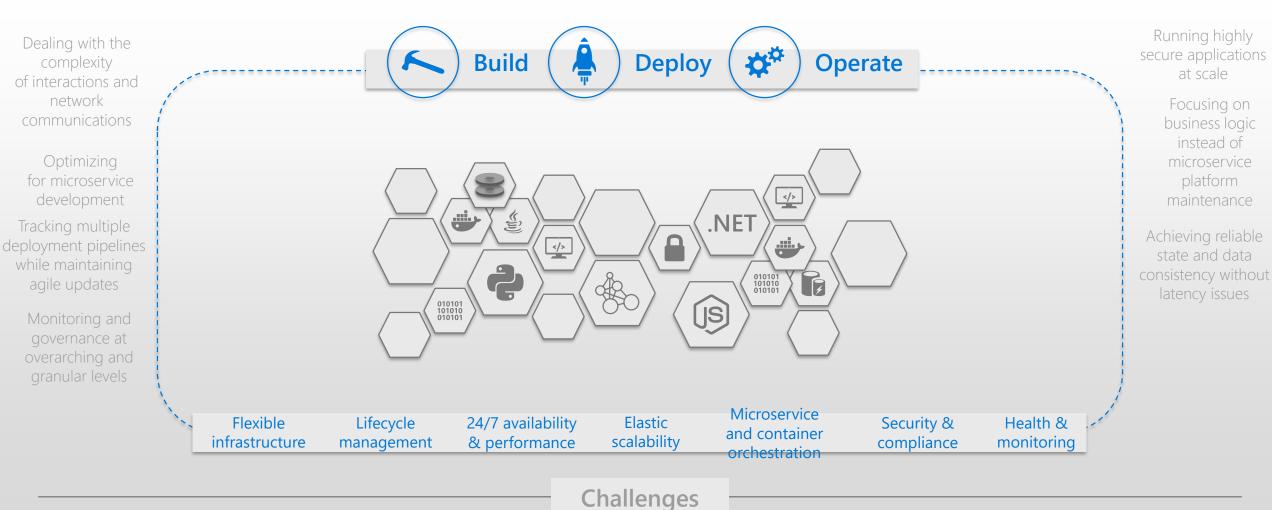
Windows and Linux Containers

Stateless and stateful microservices

Deploy on Azure, Azure Stack and on-premises



Build and deploy containers and microservices on Windows and Linux, at any scale, on any cloud



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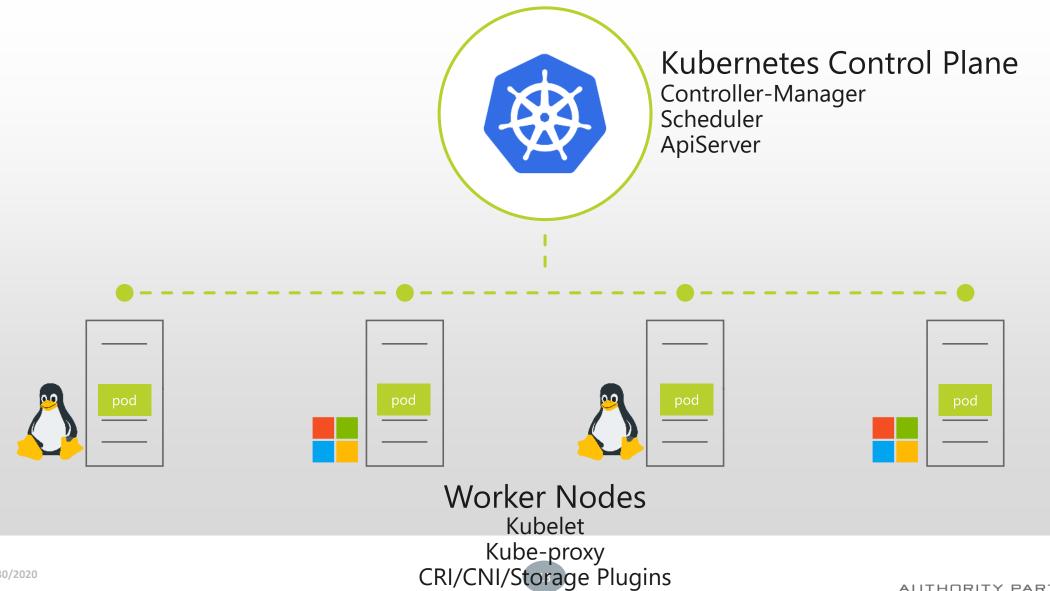
# Azure Container Instances (ACI)

Easily deploy and run containers with a single command

Launch container instances in seconds

Cost effective per second billing

#### Mixed Windows and Linux Clusters





## Azure App Service

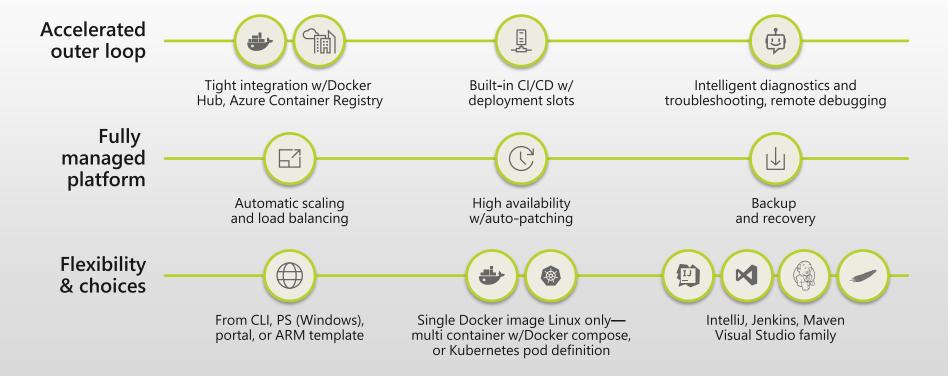
Quickly build, deploy, and scale web apps

Now supports Windows Server containers

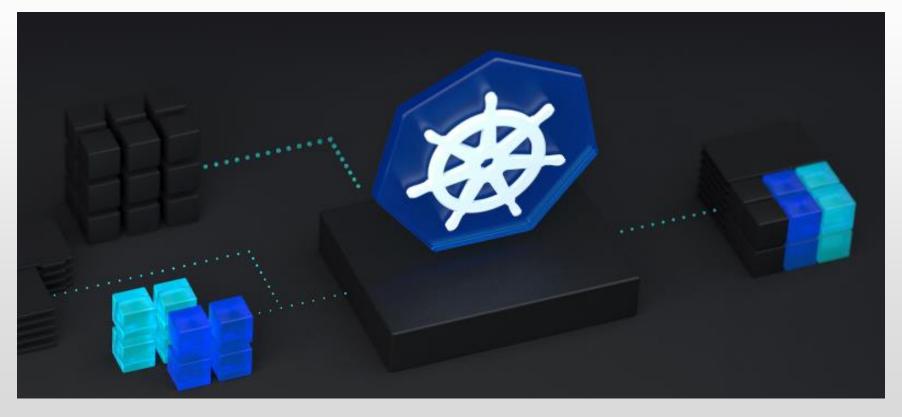


#### vveb abb for containers

Easily deploy and run container-based web apps at scale



• Let's talk about Kubernetes and Azure...



#### Azure kubernetes service (AKS)



Fully managed kubernetes service

Elastic provisioning

Fast end-to-end development

Identity and access management with AD

Orchestration across 29 regions, Azure stack, IoT

#### Azure kubernetes service (AKS)

The elements of orchestration



Scheduling



Affinity/ anti-affinity



Health monitoring



**Failover** 



Scaling



Networking



Service discovery



Coordinated app upgrades

## Questions?



# Thank You!

