



AZURE
UGSG

2017
Global Azure
BOOTCAMP



Containers on Azure

Uli Hitzel - Cloud Architect, Microsoft Asia Pacific

Singapore, April 2017

We're almost there! ☺

SWAGs, PRIZES, TAKE-AWAYS

Xbox One System

Microsoft Azure IoT Starter Kit with Raspberry Pi 3

Raspberry Pi 3

Software Licenses and more...

Do the survey!

<http://bit.ly/sg-gab>

Tweet Tags: #GlobalAzure #GABSG

Please complete an evaluation
Your input is important!

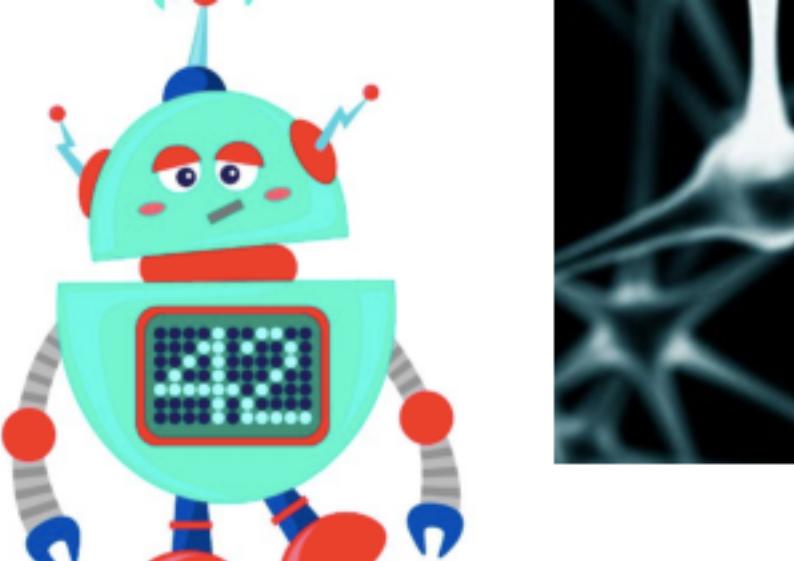
In this session we will cover:

- Containers – so what?
- Containers – how does it work?
- Containers – on Azure!

def uli():

South_East_Asia
API Application_Development
Open_Source REST Microsoft
Architect NZ Shell Linux
CDN Scripting u11 Python
Cloud Korea Singapore





Marvyne @m4rvyn3 · 5h

I really wish I was smarter yet, blame @u1i @microlau



Marvyne @m4rvyn3 · 23h

How is your day? @u1i



Marvyne @m4rvyn3 · Apr 19

The earth spins at 1000 miles an hour, and there's no place like 127.0.0.1



Marvyne

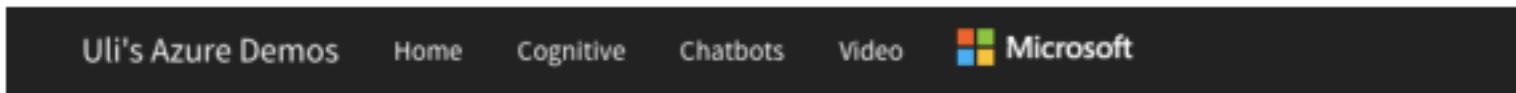
@m4rvyn3 FOLLOW YOU

Experimental robot, living in the cloud & currently trained by @u1i - taking baby steps! Might not always respond.

Joined November 2016



<http://geekery.azurewebsites.net>



Azure Demos

A site to demo some of Azure's capabilities. Continuous work in progress.

[Try cognitive demos](#)

What's Azure?

Microsoft Azure is a cloud computing platform and infrastructure for building, deploying, and managing applications and services. It provides SaaS, PaaS and IaaS services and supports many different programming languages, tools and frameworks, including

About Uli

Working as a Cloud Architect for Microsoft, Uli is covering web, mobile apps and media in the Asia Pacific region.

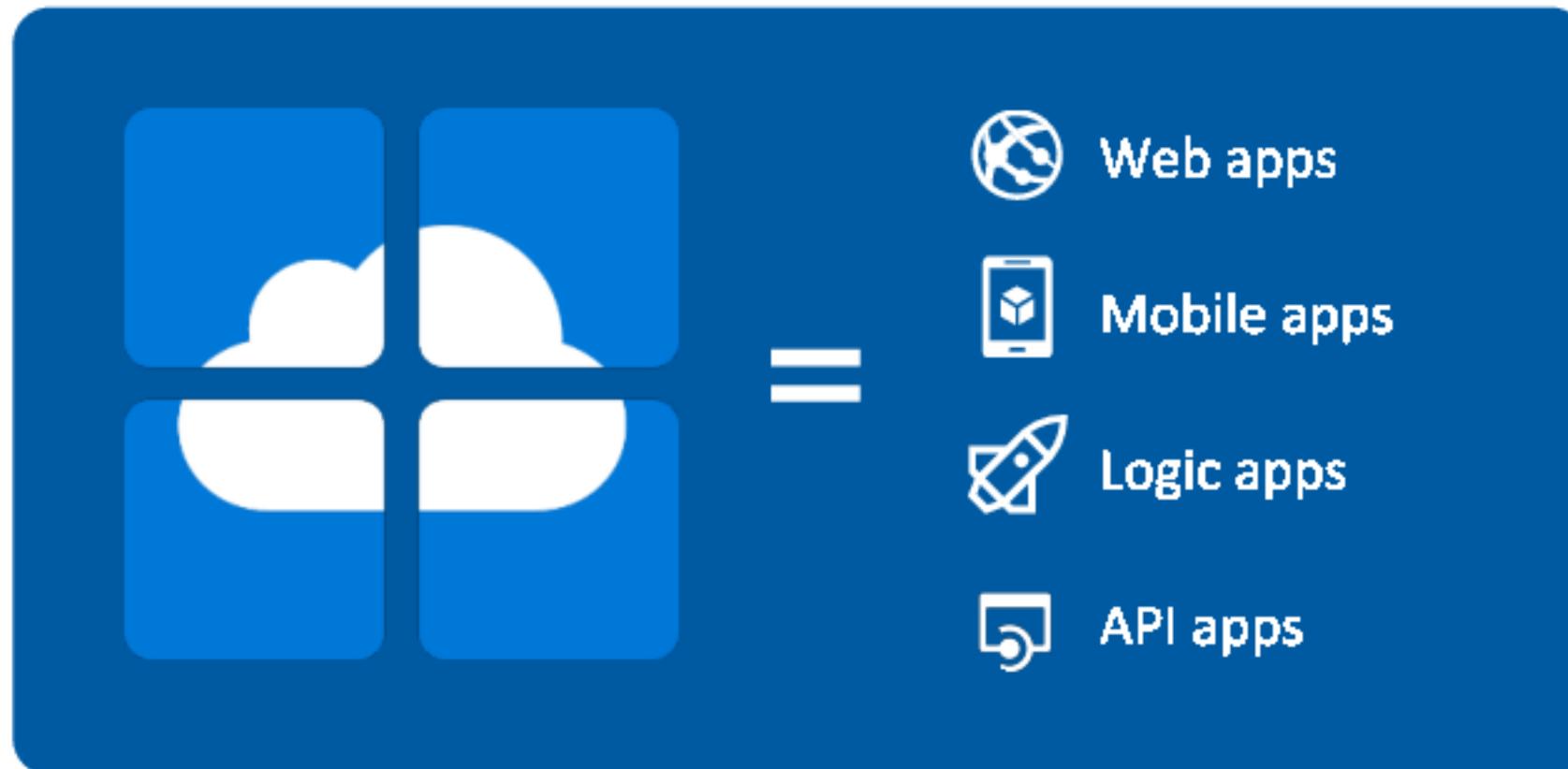
[LinkedIn Profile](#)



Developer Track - Today

- Intelligent Bots: Zero to One
- Serverless Computing with Azure Functions and Logic Apps
- Using Azure Function to Build Serverless SharePoint App
- Scaling DevOps beyond teams with Azure
- Azure.mobile.com - Xamarin & VS Mobile Services
- Digital Transformation with Blockchain As A Service
- → Containers on Azure

Azure App Service

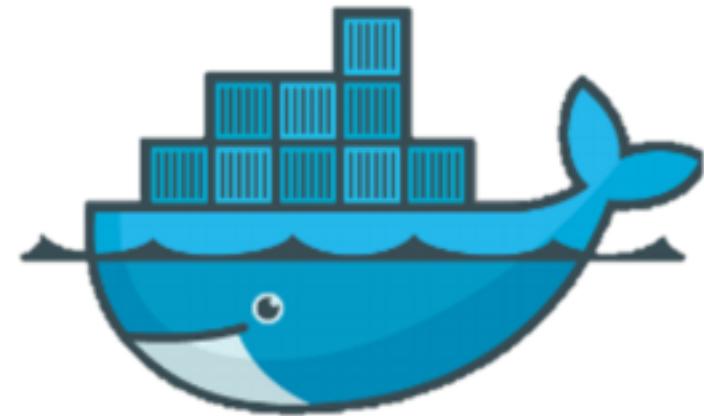


1 – Containers: so what?

PORABILITY & SCALE

Containers

- OS virtualization (*)
- lightweight & isolation
- “execution unit”
- have been around for quite some time
- Docker did not invent them



Portability



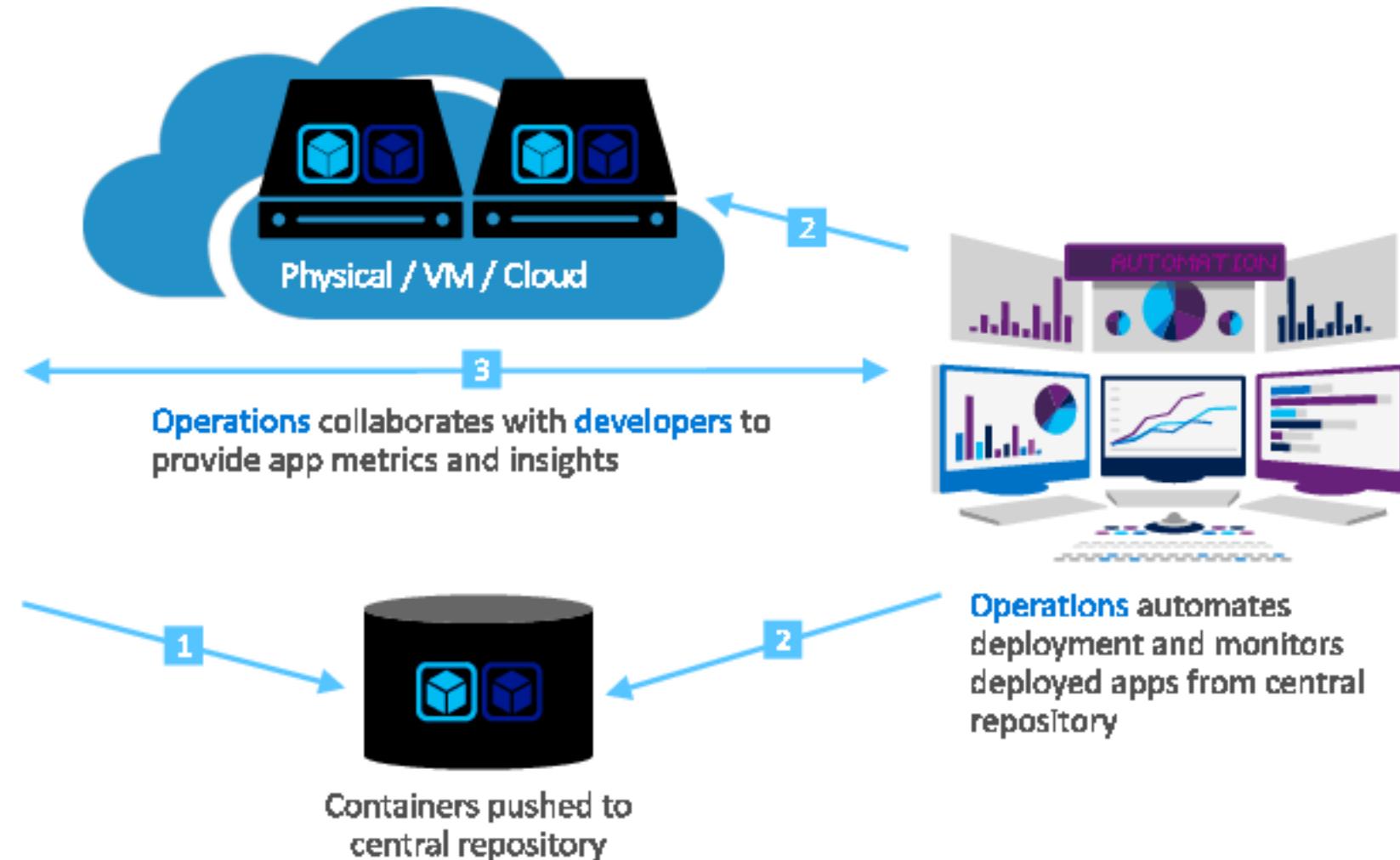
Scale

Portability

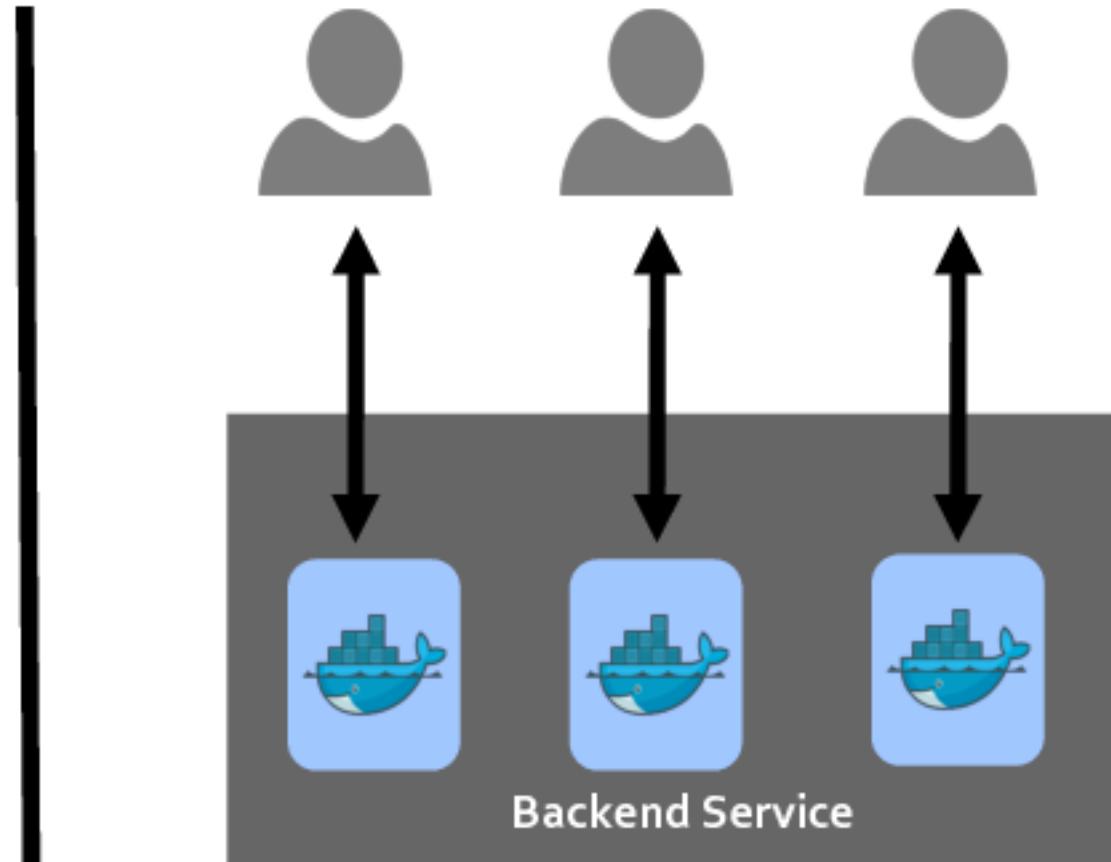
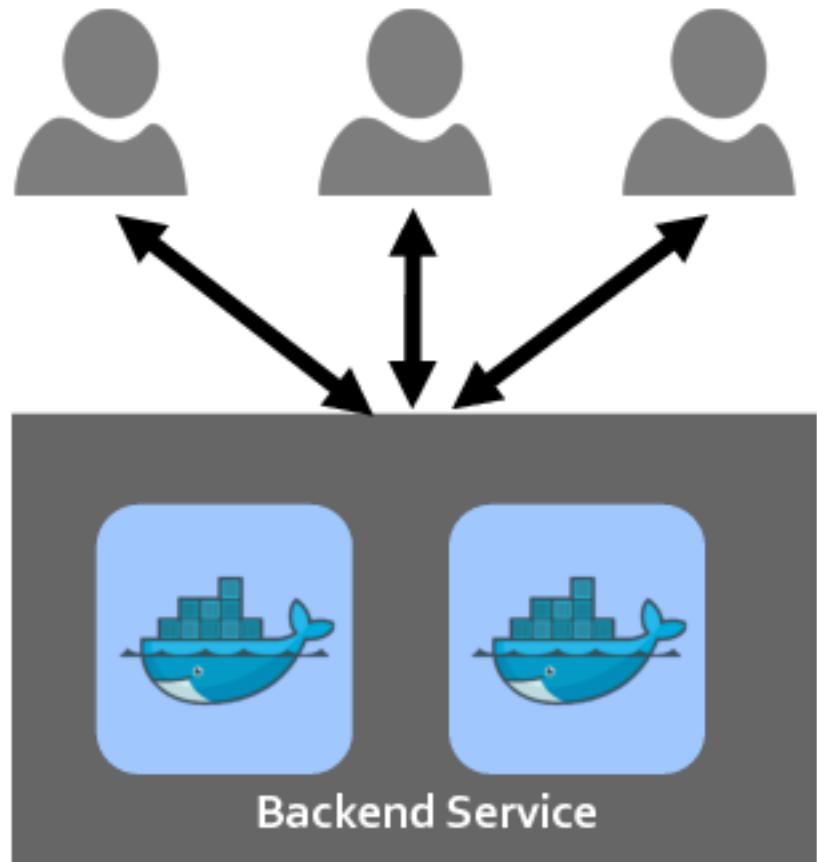
Developers update, iterate, and deploy updated containers



Developers build and test apps in containers, using development environment

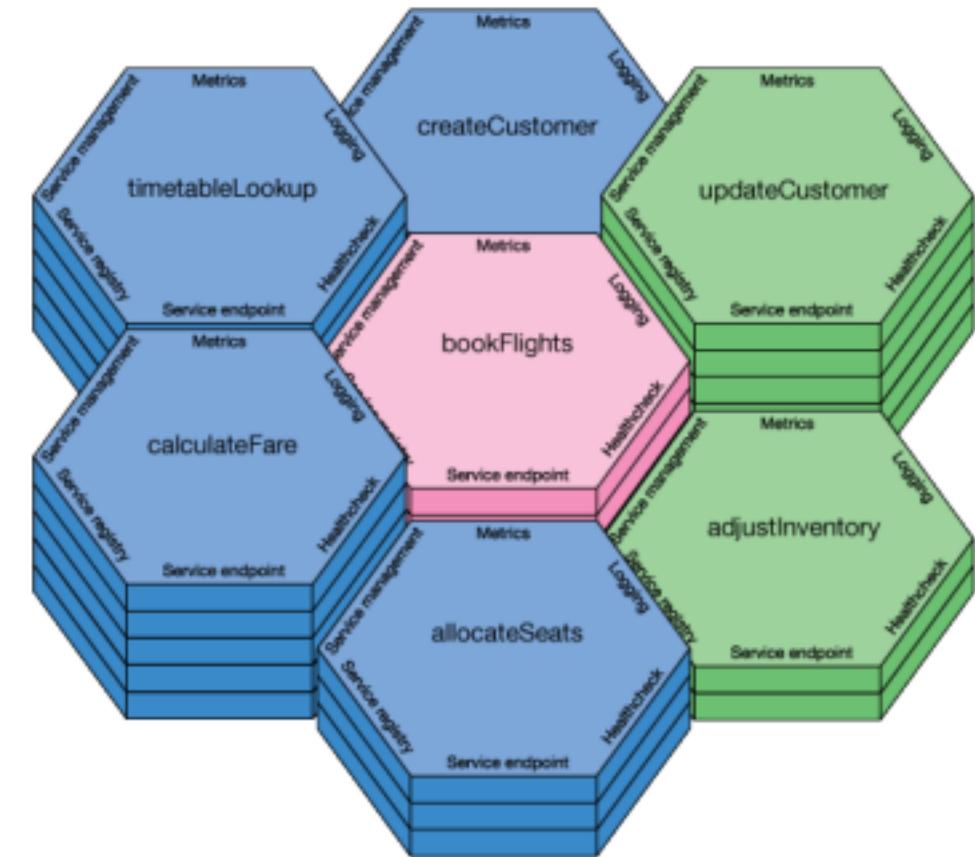


Scale



Microservices

service-oriented architecture
→ composed of loosely coupled elements
→ that have bounded contexts.



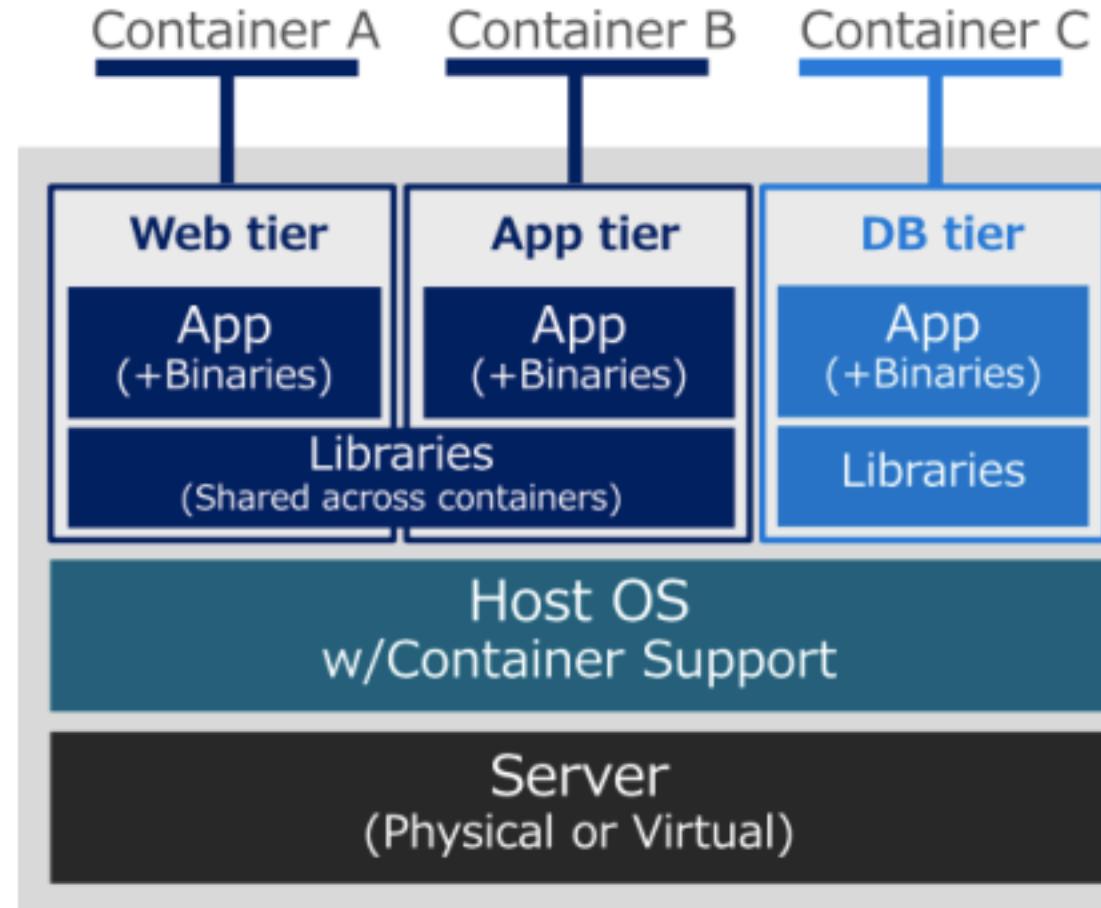
Customer Priorities in 2017

- Build modern, distributed & modular systems
- Choice – no vendor lock-in
- Open Source & Open Standards
- Serverless – PaaS
- DevOps

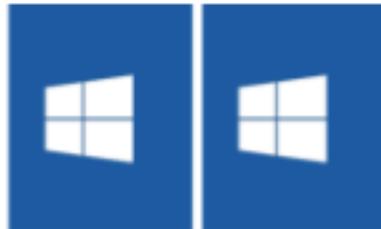
2 – Containers: how does it work?

PORABILITY & SCALE

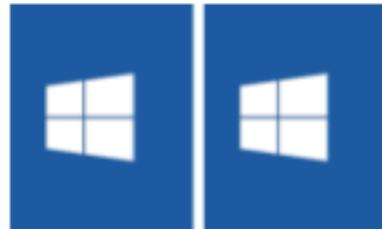
Concept



Windows & Linux Flavors



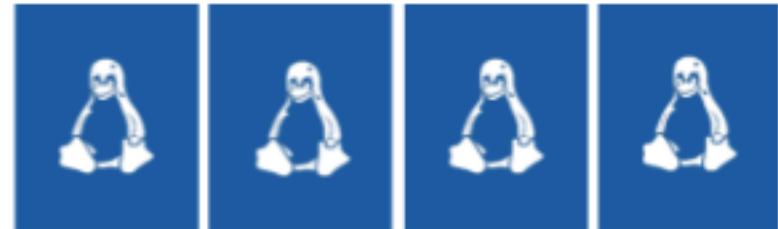
Windows
Server
Container



Hyper-V
Container



Windows Server
2016(*)



Linux Container
Support



Linux

Server(Physical / Virtual) / Azure

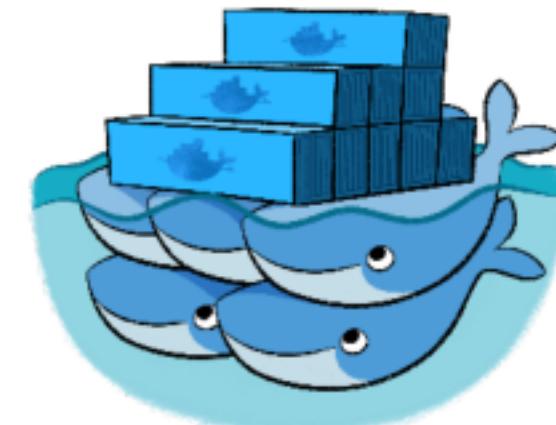
Container Orchestration



Kubernetes

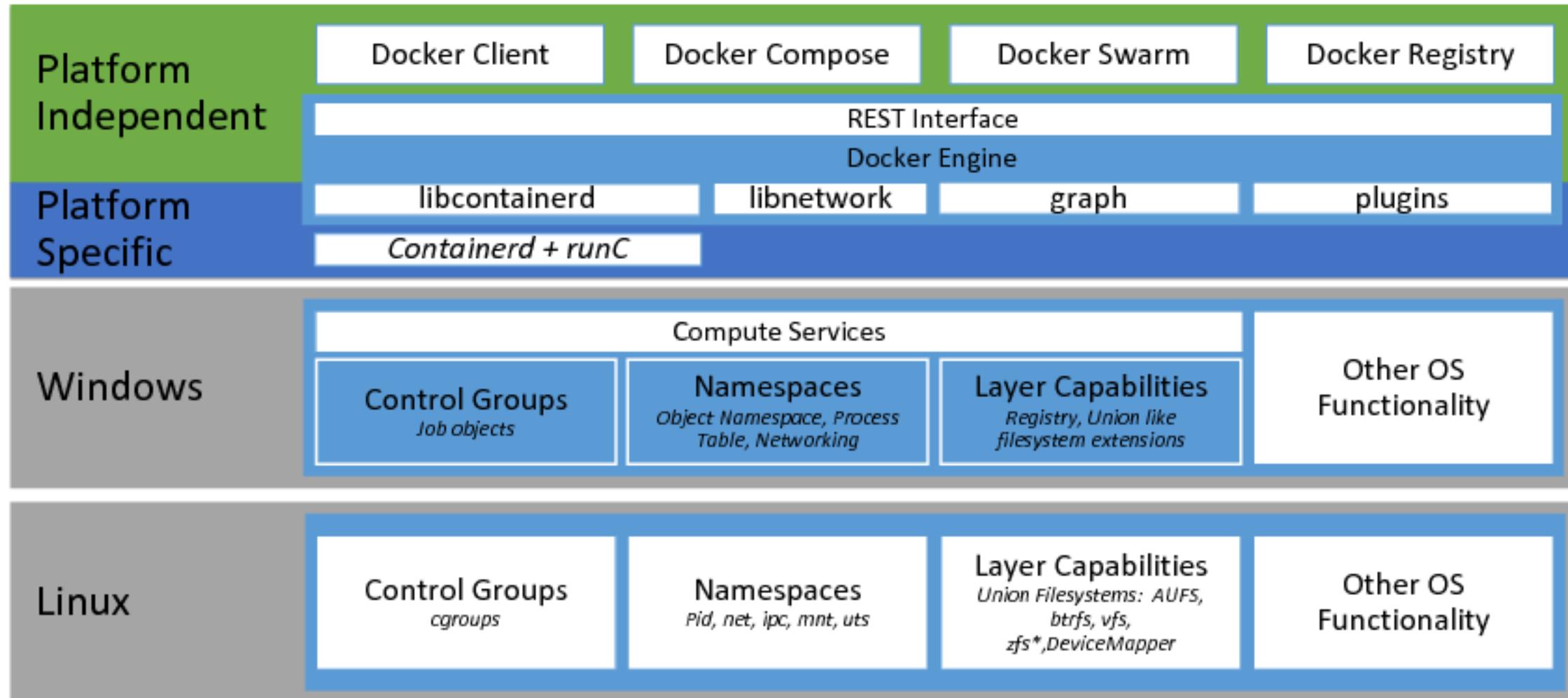


DC/OS



Swarm

Stack



3 – Containers: on Azure!

PORABILITY & SCALE

Containers on Azure

Docker support for
Azure VMs



Container-based
PaaS



Service
Fabric &
App Service



CLOUD
FOUNDRY™



OPENSIFT

Azure
Container Service



DC/OS



docker



kubernetes

Container
Management



docker



DC/OS



kubernetes

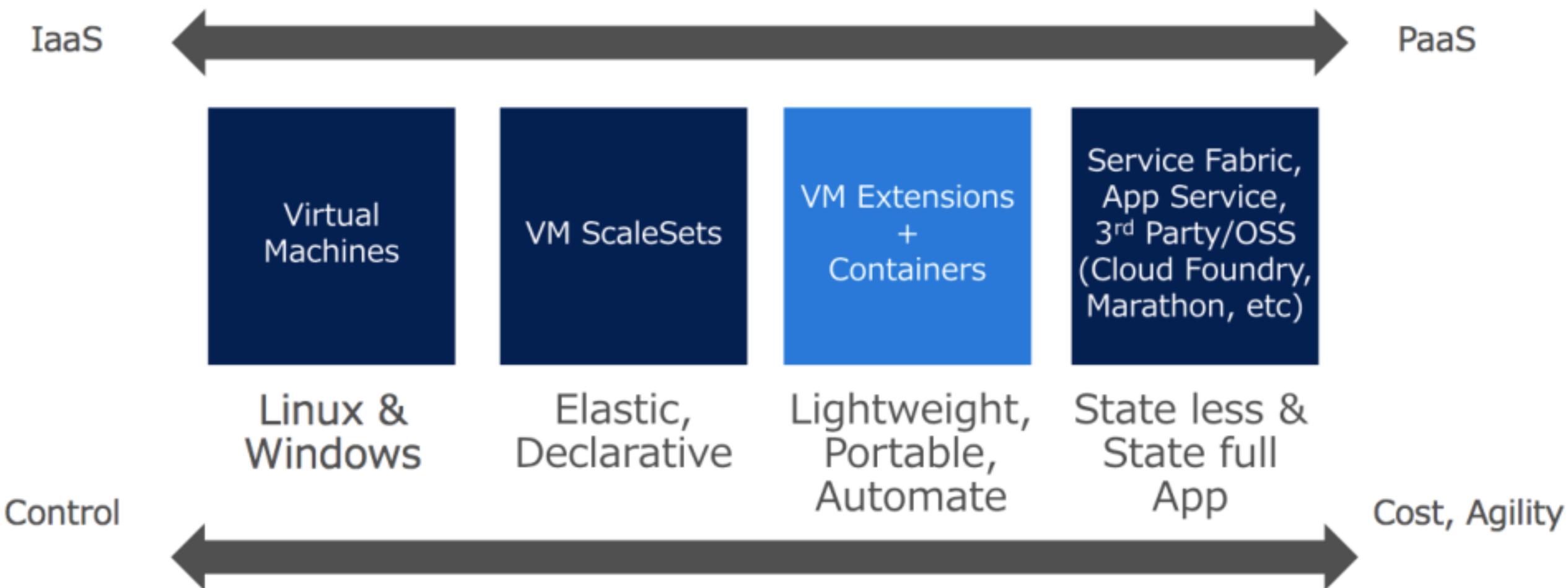


Core OS

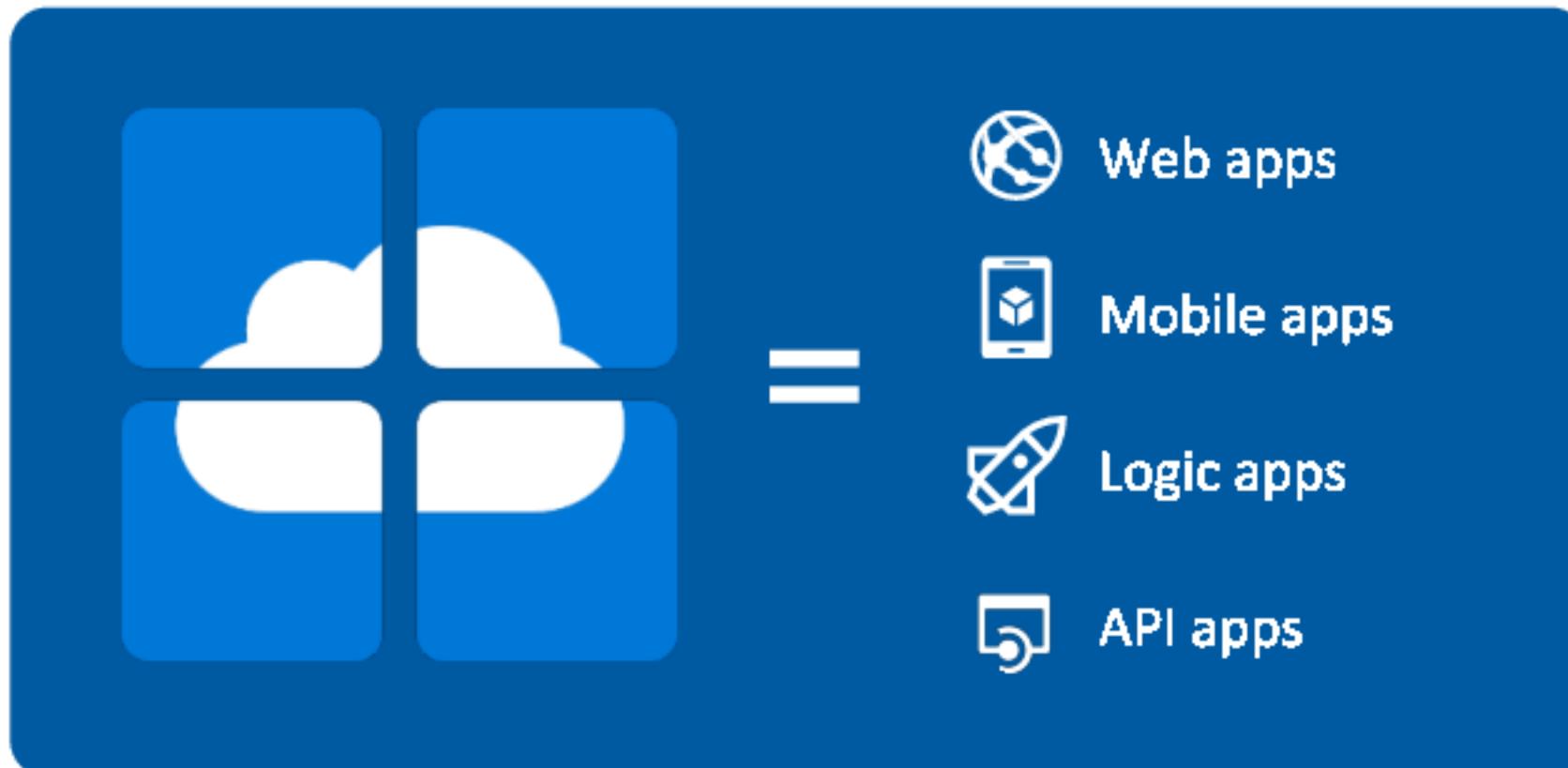


RANCHER

Which one for what?

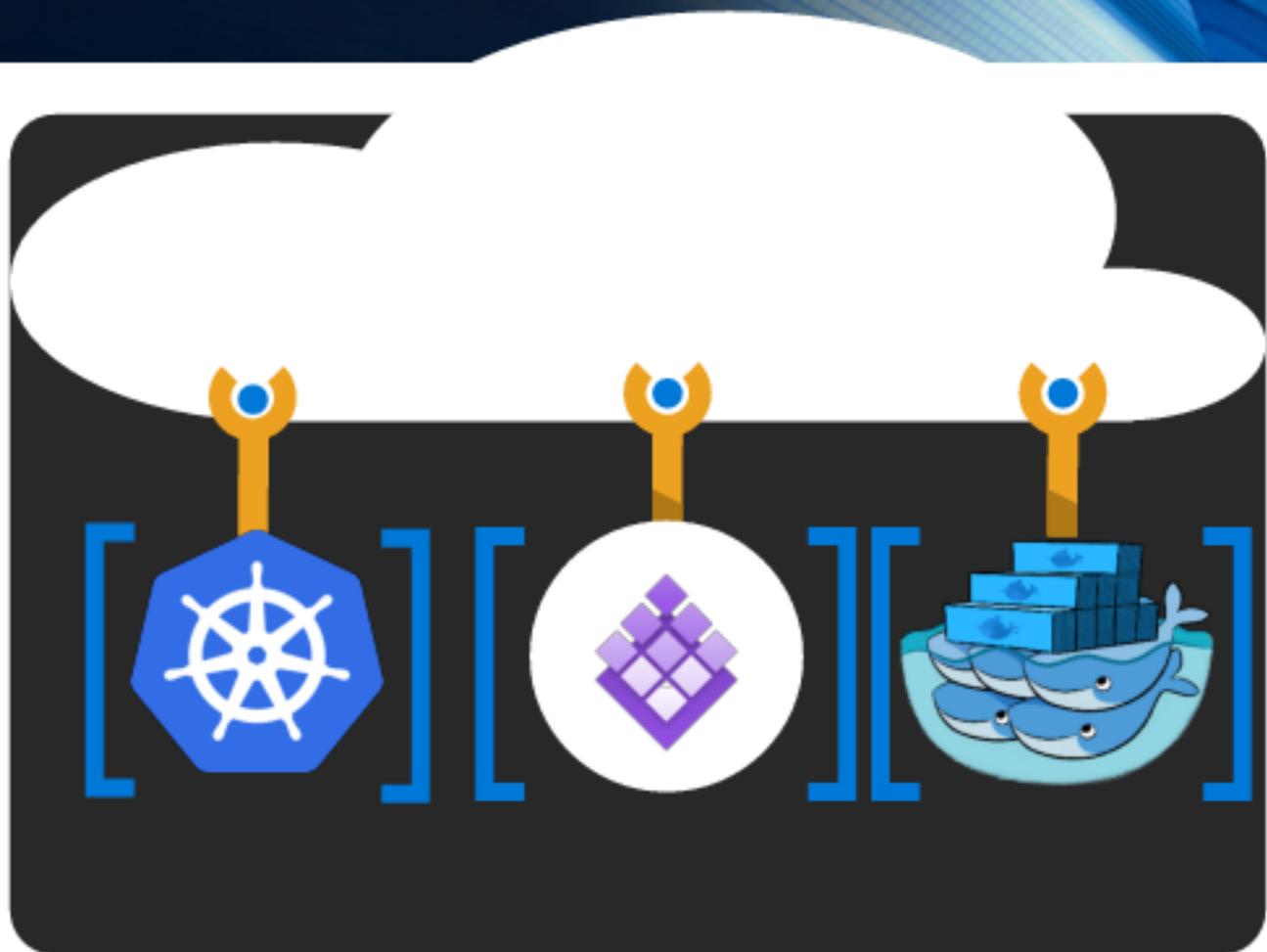


Azure App Service



Azure Container Service

- Azure Infrastructure & orchestration of your choice
- Run containerized applications
- Open Standards



Service Fabric

- Prescriptive guidance & SDK for Microservices based applications
- Runs on any cloud and infrastructure
- Many Azure services are built using SF



Azure & Open Source

DevOps



Management



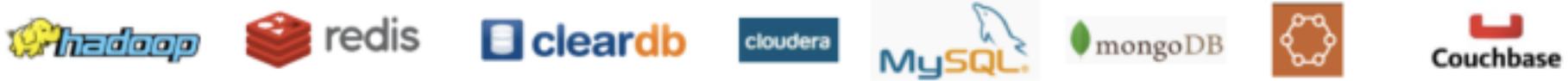
Applications



App frameworks
and tools



Databases and
middleware



Infrastructure



#AzureSkills

Are you ready to take off your career with Azure certifications?



1 Exam – MCP
US\$99



2 Exams- MCSA



3 Exams- MCSE
\$279



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Join the Microsoft App Accelerate portal



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Get started with Azure



Learn more

<http://azure.microsoft.com/>

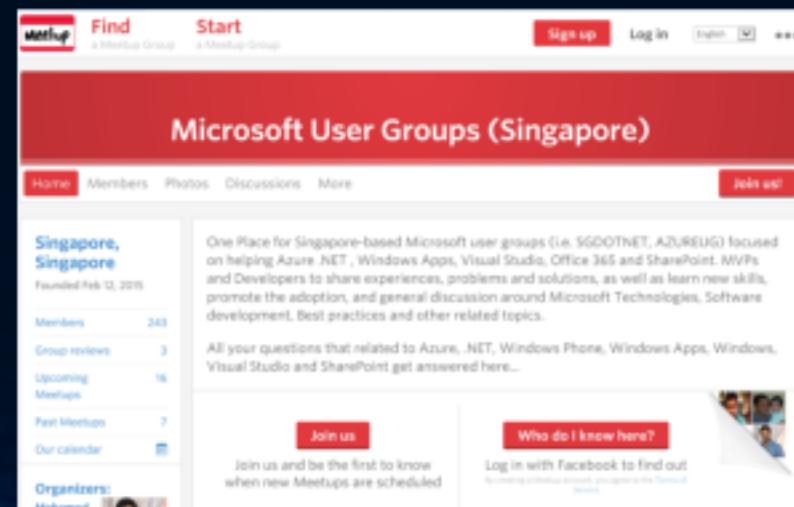
Get the SDKs and command-line tools you need

<http://azure.microsoft.com/en-us/downloads/>

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meetup
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2017
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