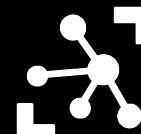
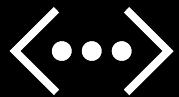




AZURE
UGSG

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!

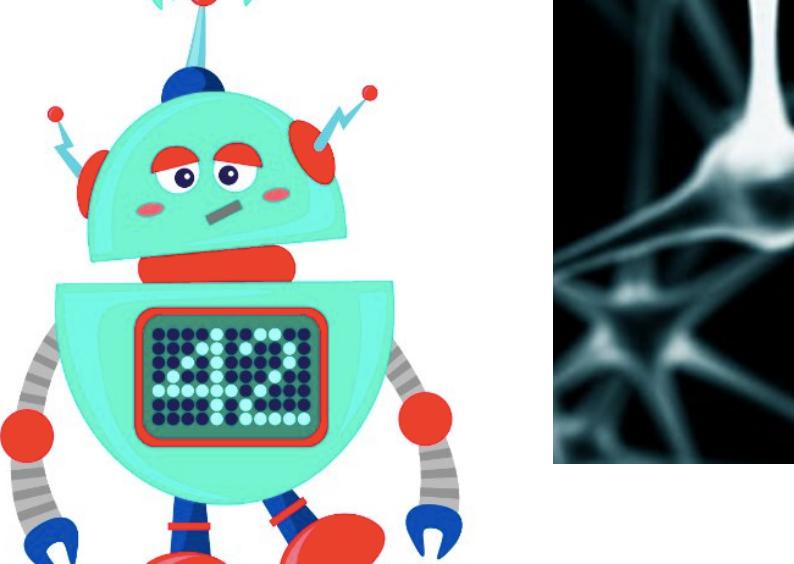
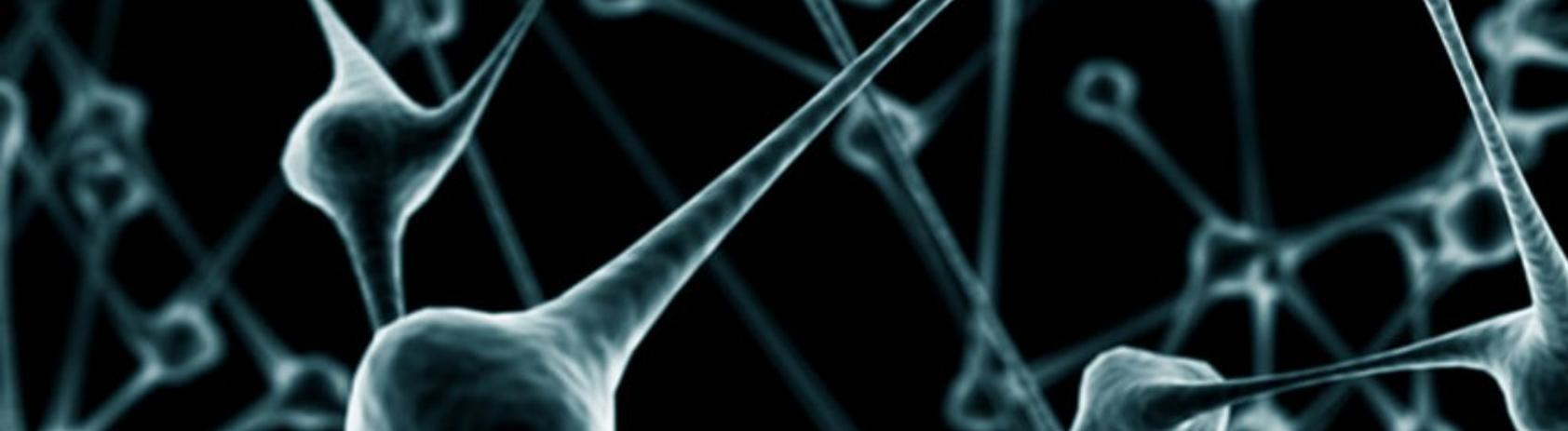
In this session we will cover:

- 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 Linux
CDN Scripting u11 Shell
Cloud Python Singapore
Korea





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 FOLLOWS 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>

Uli's Azure Demos Home Cognitive Chatbots Video  Microsoft

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.

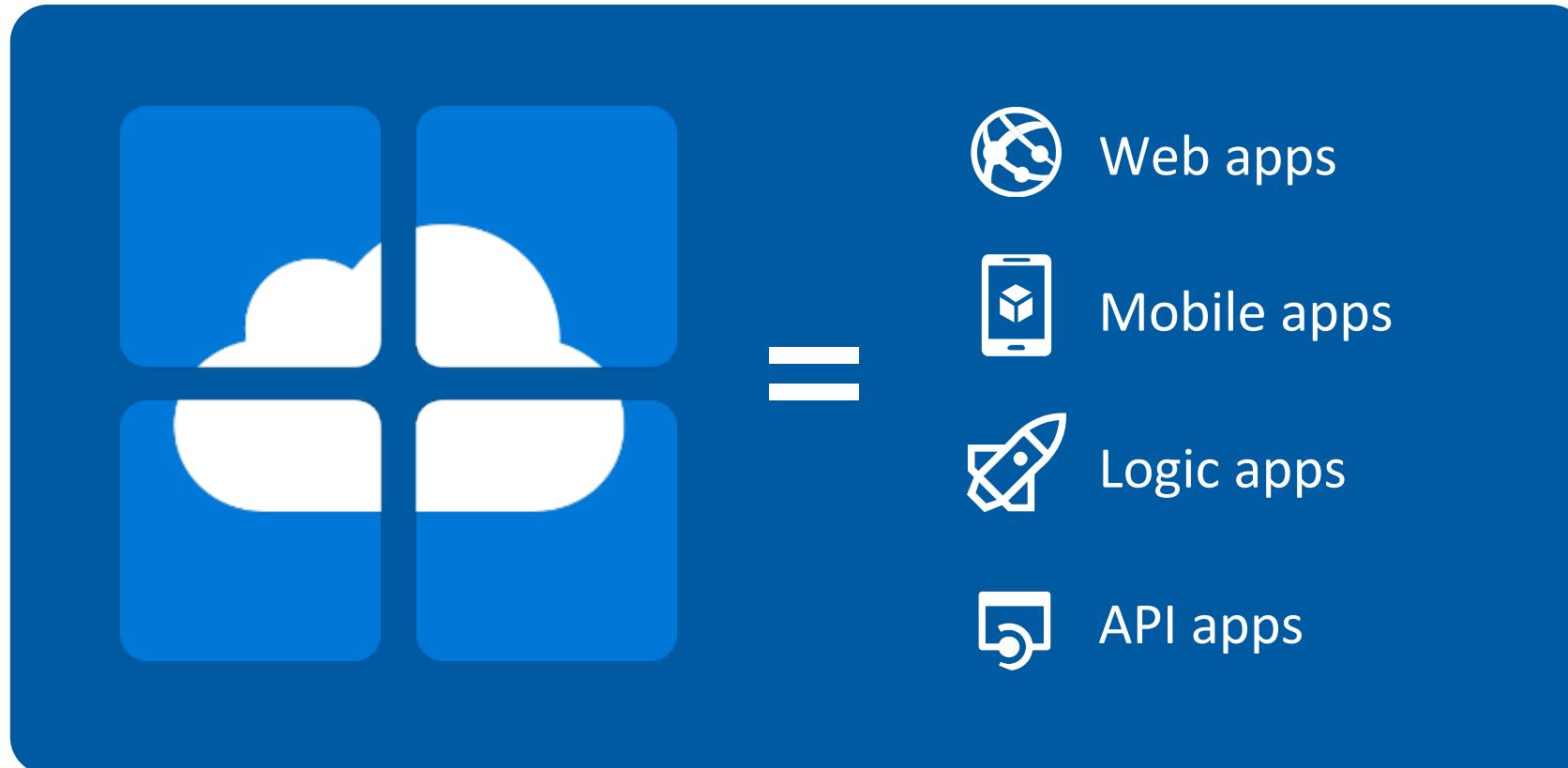


[LinkedIn Profile](#)

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

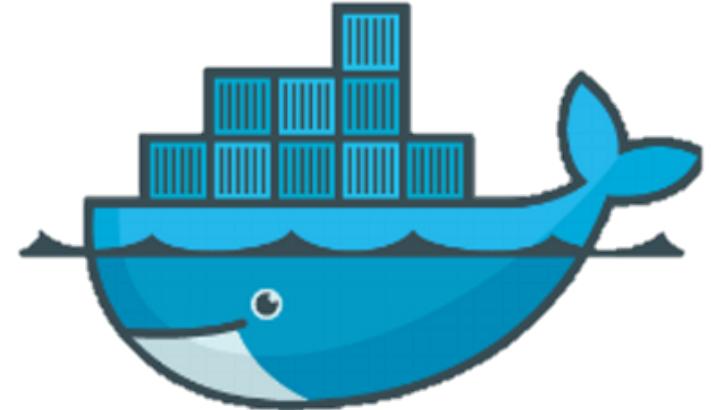


1 – Containers: so what?

PORABILITY & SCALE

Containers

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



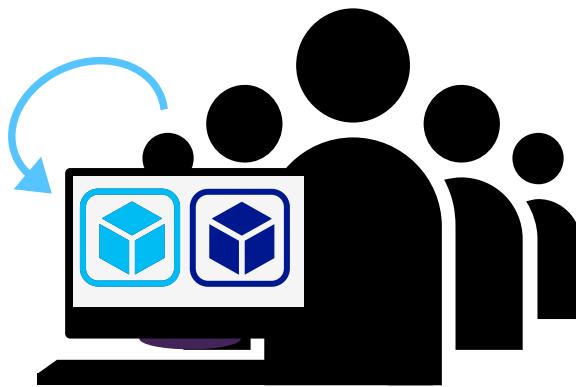
Portability



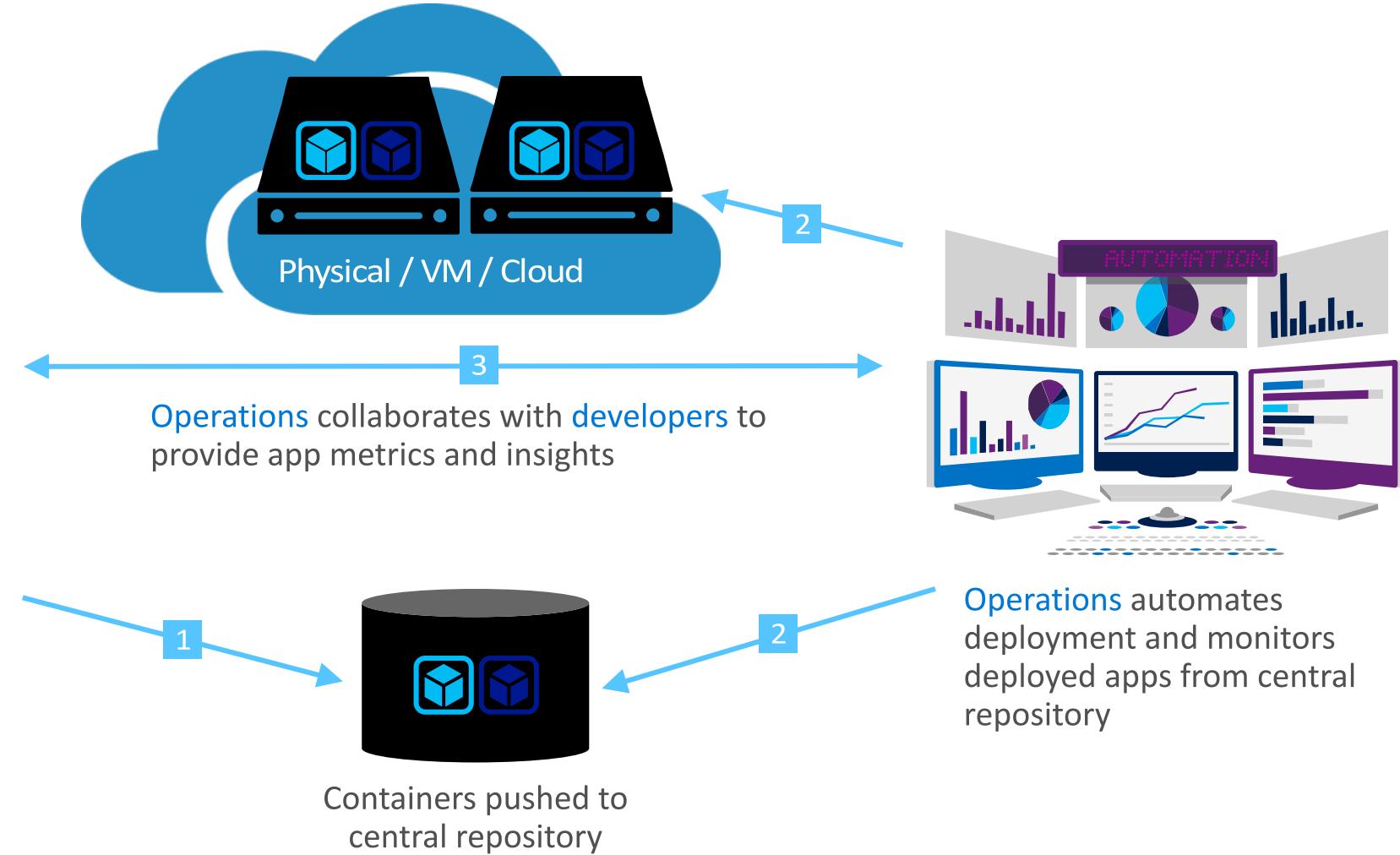
Scale

Portability

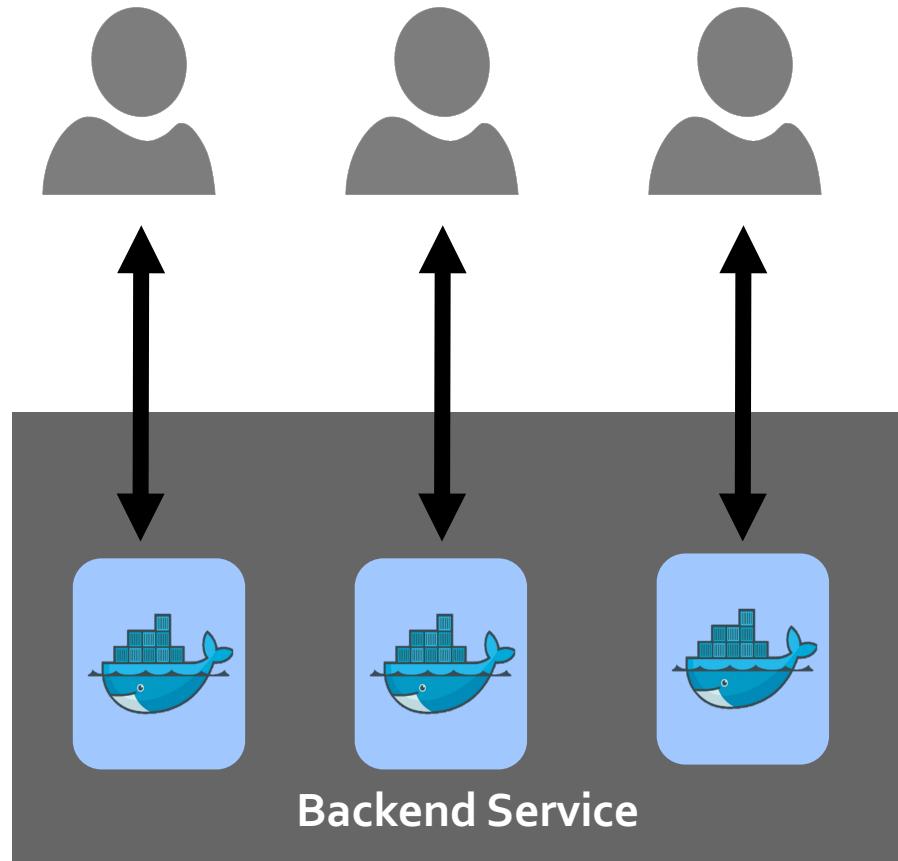
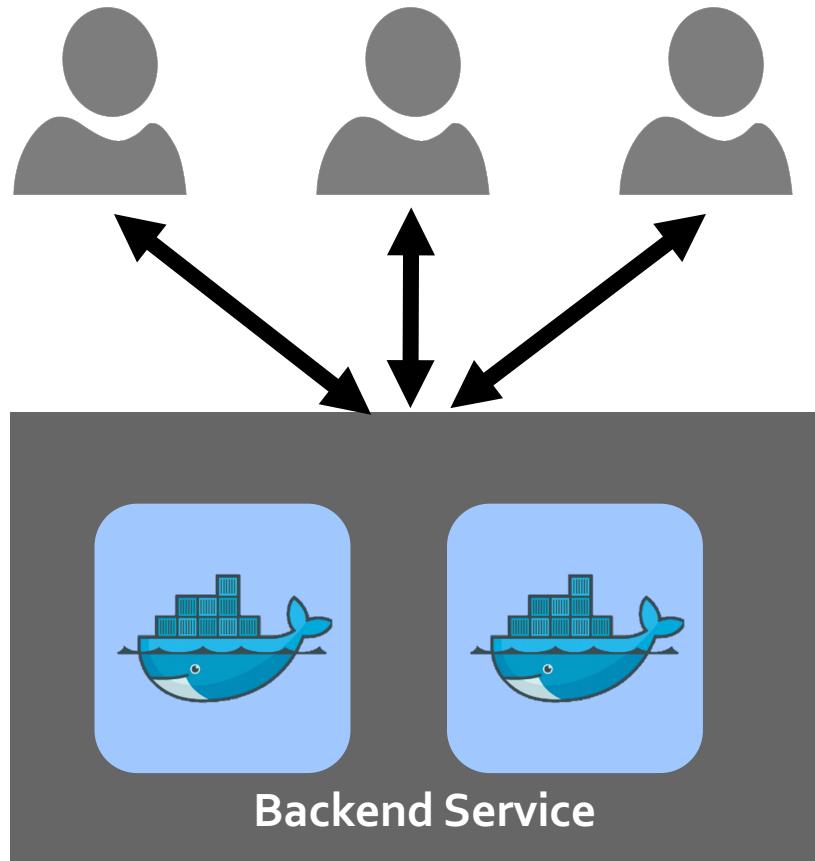
Developers update, iterate, and deploy updated containers



Developers build and test apps in containers, using development environment

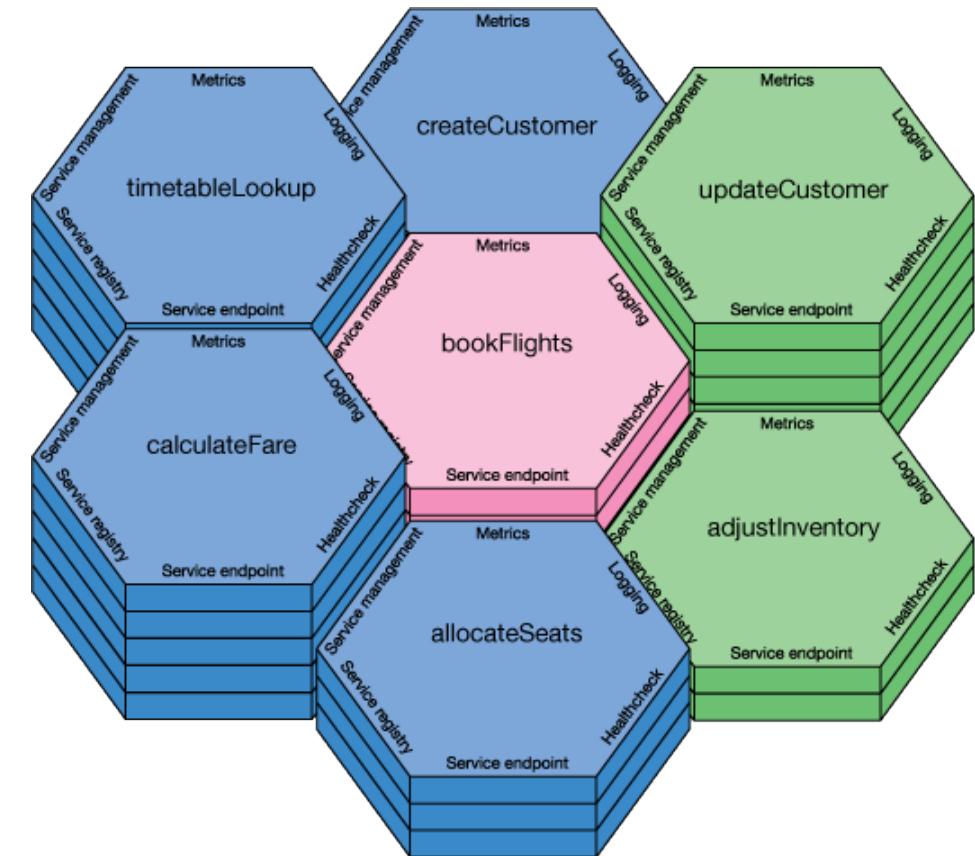


Scale



Microservices

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



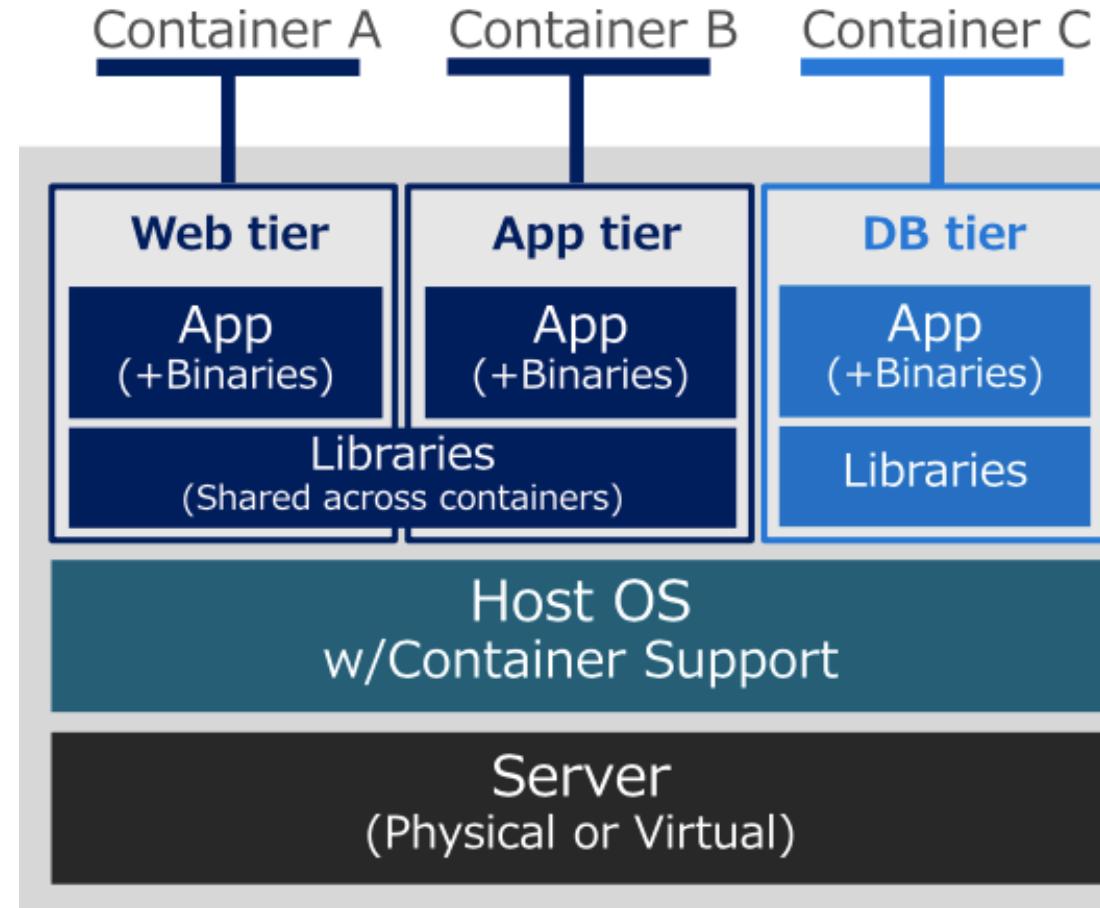
Customer Priorities in 2017

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

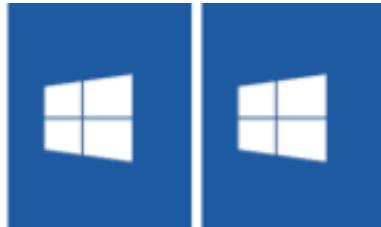
2 – Containers: how does it work?

PORATABILITY & SCALE

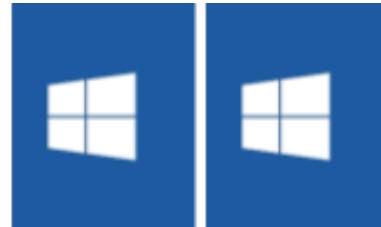
Concept



Windows & Linux Flavors



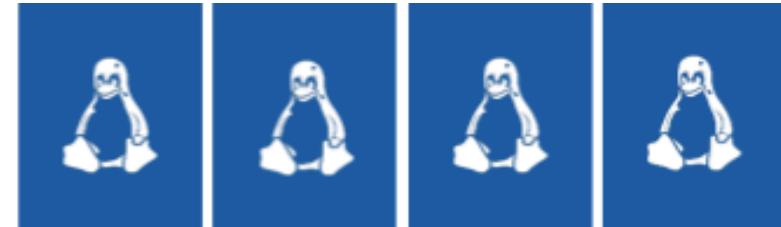
Windows
Server
Container



Hyper-V
Container



Windows Server
2016(*)



Linux Container
Support



Linux

Server(Physical / Virtual) / Azure

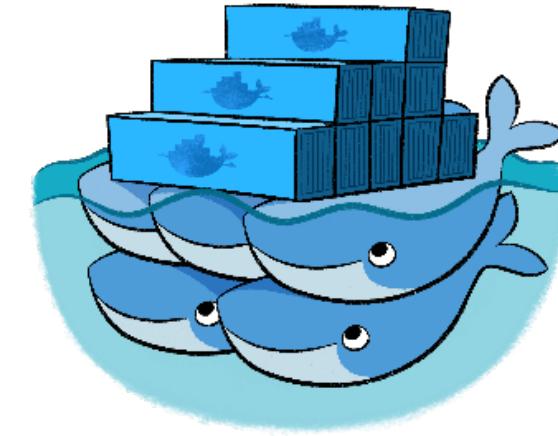
Container Orchestration



Kubernetes

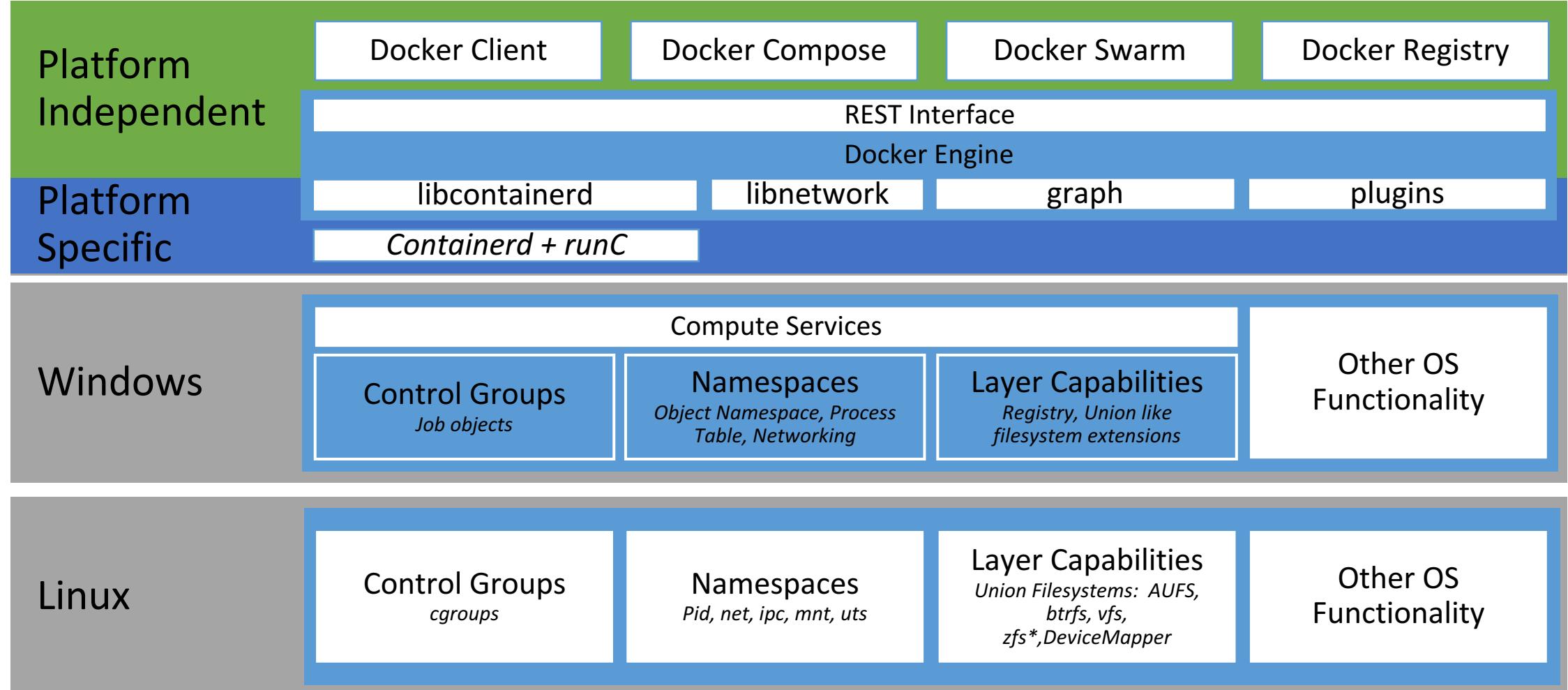


DC/OS



Swarm

Stack



3 – Containers: on Azure!

PORATABILITY & 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

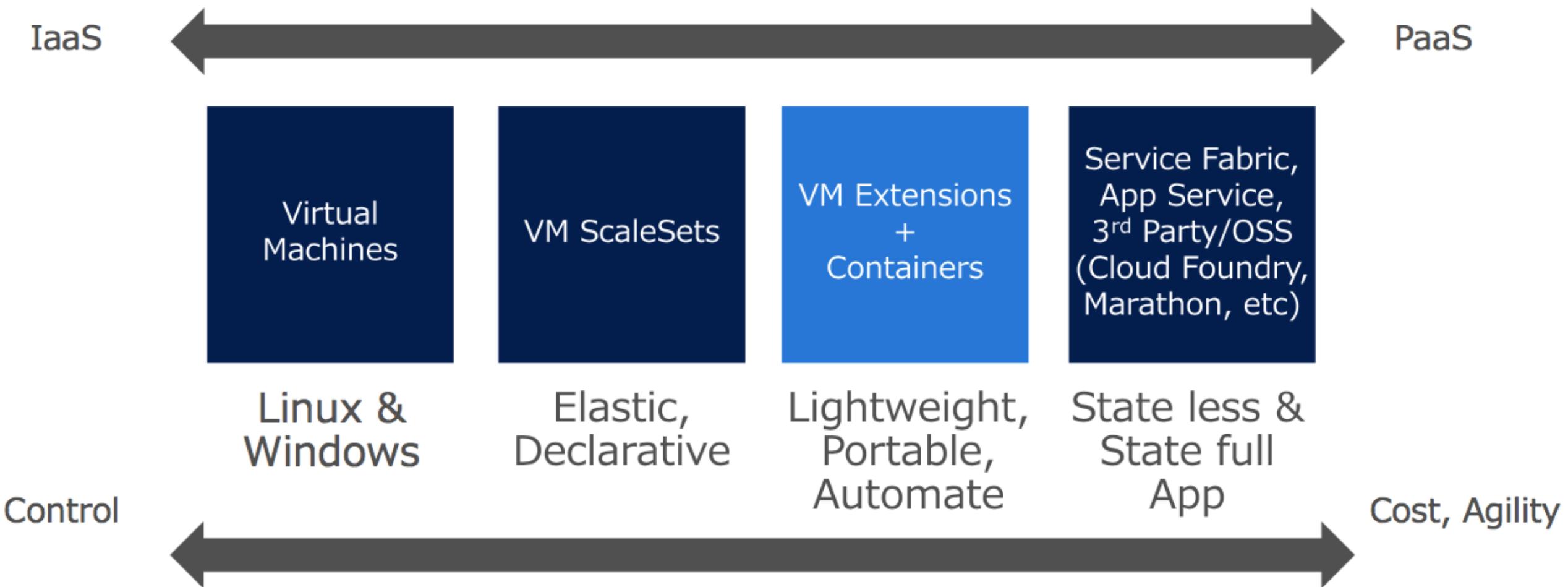


Core OS

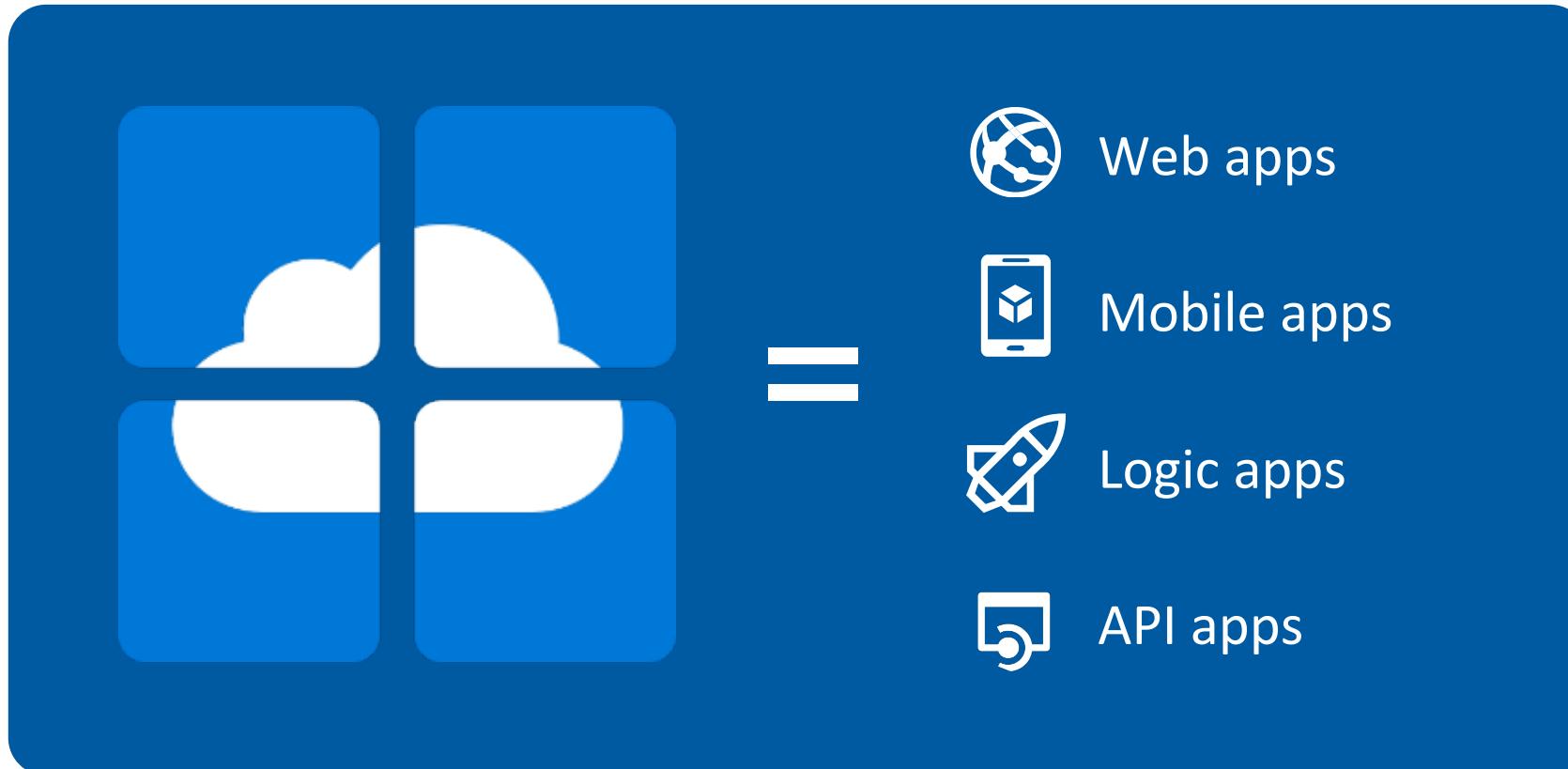


RANCHER

Which one for what?

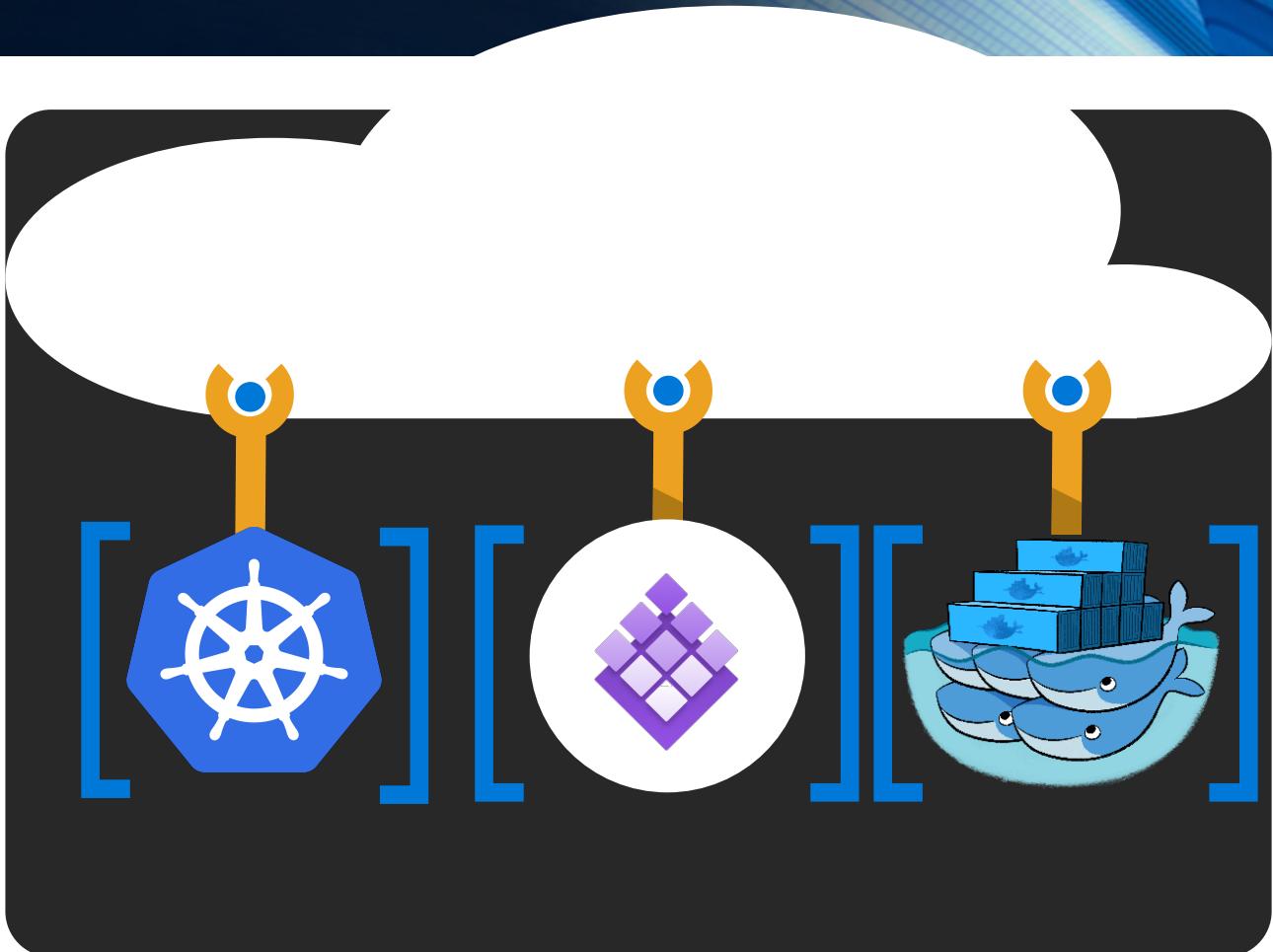


Azure App Service



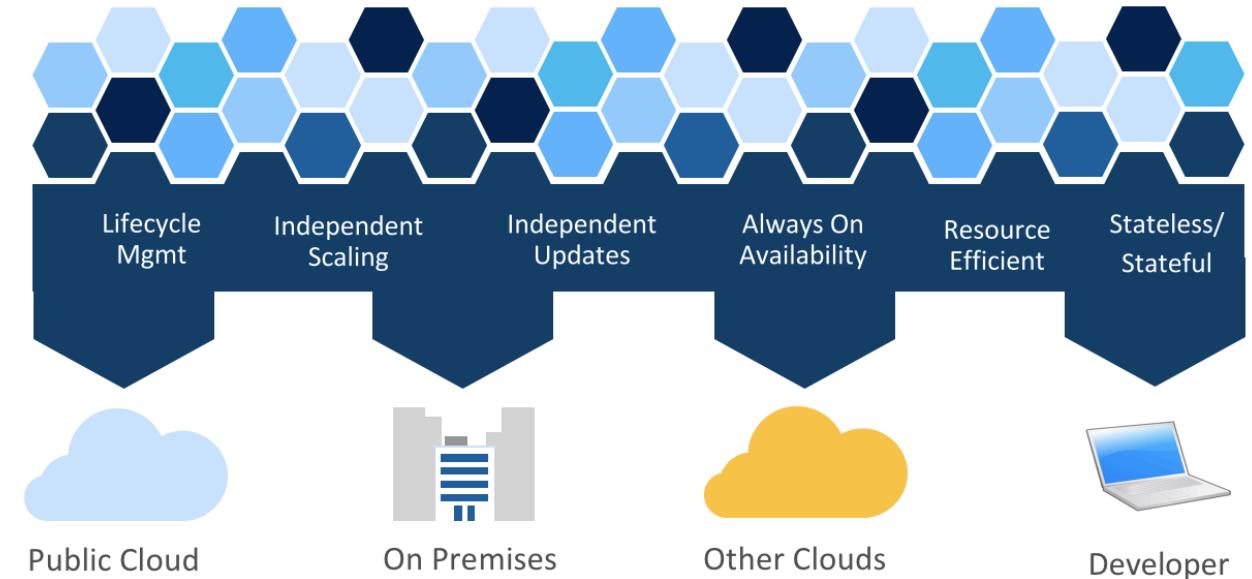
Azure Container Service

- 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	    Clients    
Management	       
Applications	   PaaS & Devops     
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

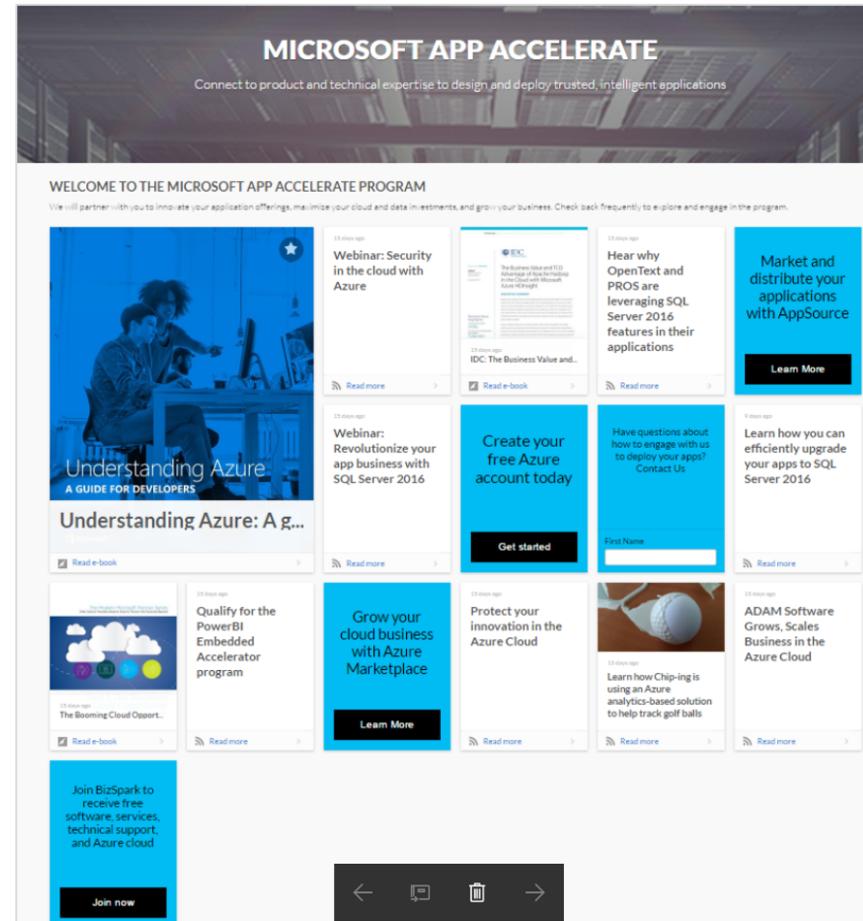


Call for all ISVs in Singapore:

A new platform developed by Microsoft to make it easy for ISVs & application builders, at every stage of your application lifecycle, to:

- Find and consume business planning and technical resources via webinars, guides, events
- Connect to product and technical resources to help you design and deploy trusted, intelligent cloud applications using Microsoft cloud, data, and cognitive technologies

Join the Microsoft App Accelerate portal



microsoft.com/app-accelerate

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/>

Like us our
Facebook
page

The screenshot shows the Facebook profile of the MWAP Singapore Community. The cover photo features the word 'AZURE' in large blue letters over a background image of the Windows logo. Below the cover photo, there's a post from Mohamed Faizal with a message of thanks. The page has 330 likes and a status update from ZUF about an event.

Join us @
meetup
group

The screenshot shows the Meetup group page for Microsoft User Groups (Singapore). The group was founded on Feb 12, 2015, and has 243 members. It focuses on helping Azure, .NET, Windows Phone, Windows Apps, Windows, Visual Studio, and SharePoint. A recent post from Mohamed Faizal expresses gratitude for support. There are sections for joining the group and viewing past meetups.

2017
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