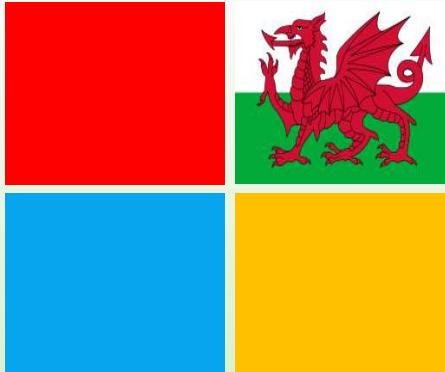




Welsh Azure User Group

-Virtual Meet Up-

12th November 2020



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THE MEETING WILL BEGIN SHORTLY



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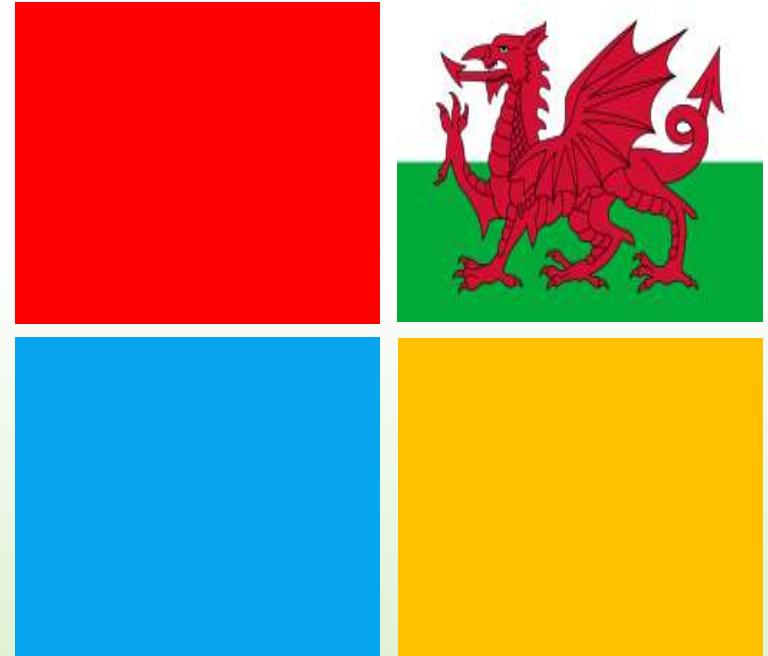
Welsh Azure User Group

-Virtual Meet Up-

12th November 2020

HOUSE KEEPING

- Be Courteous to each other.
- No question is a silly question.
- Please stay on mute unless invited to speak.
- Feel free to ask questions in the chat window or when a presenter specifically asks.
- Enjoy (Install Kahoot App!)



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Welsh Azure User Group

-Virtual Meet Up-

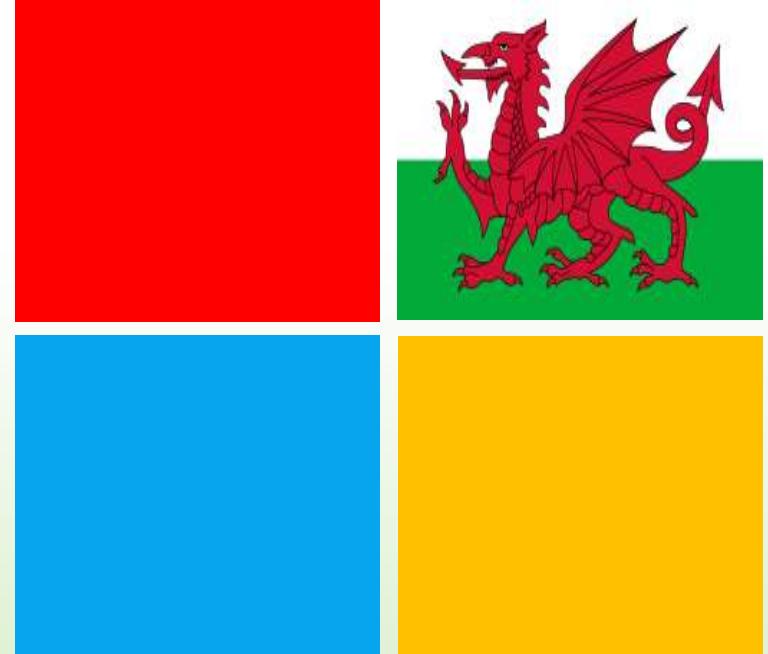
12th November 2020

YOUR WAUG HOSTS

- Confused.com - Richard Griffiths
- BT Enterprise – John Lunn
- Clear Bank – Abul Khair
- IPO - George Wachira

Supported by:

- Microsoft – Anna McNally
- Microsoft – Matt Fortunka
- Microsoft – Ahmed Laajam



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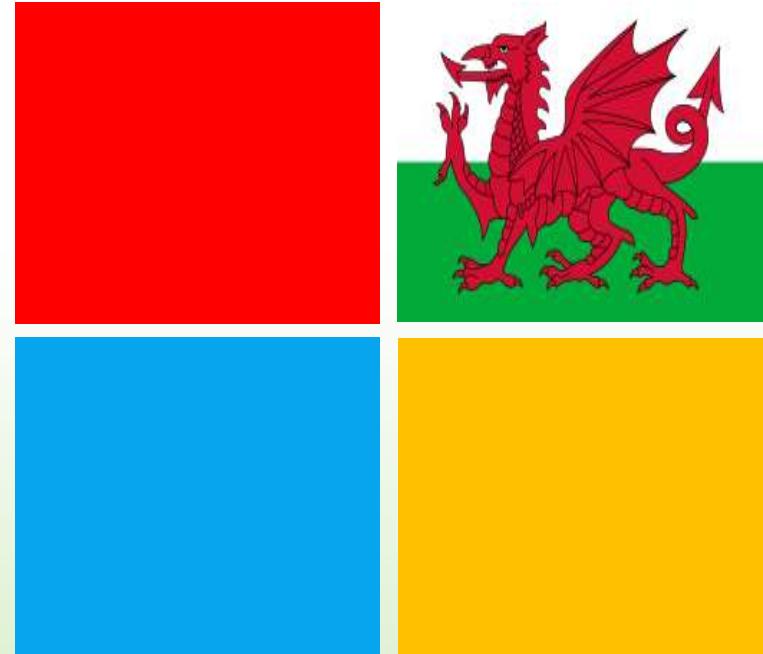
-Virtual Meet Up-

12th November 2020

Links

<https://Aka.ms/azurefamily> – Global Azure User Groups

<https://t.co/tf4B8tCMXD?amp=1> - Windows Virtual Desktop (WVD) Administrator Certification Blueprint Survey



<https://cutt.ly/welshazure>



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A message from our sponsors:



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Modern Enterprise Acceleration



**Microsoft
Partner**



Gold Cloud Platform
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Silver Security
Silver DevOps
Silver Data Analytics

WHO WE ARE

ABOUT SERVENT



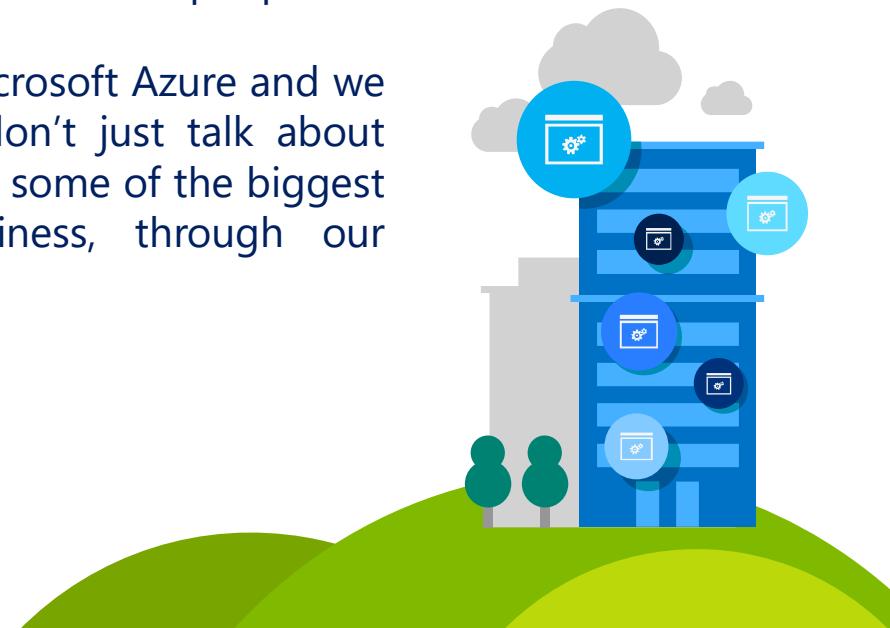
**22 Montrose Street
Glasgow
G1 1RE**

www.servent.co.uk

Servent are one of the top UK Microsoft Azure partners and sit within the top Microsoft partners in the UK, based on the amount of Azure revenue we drive for Microsoft, and our customer references.

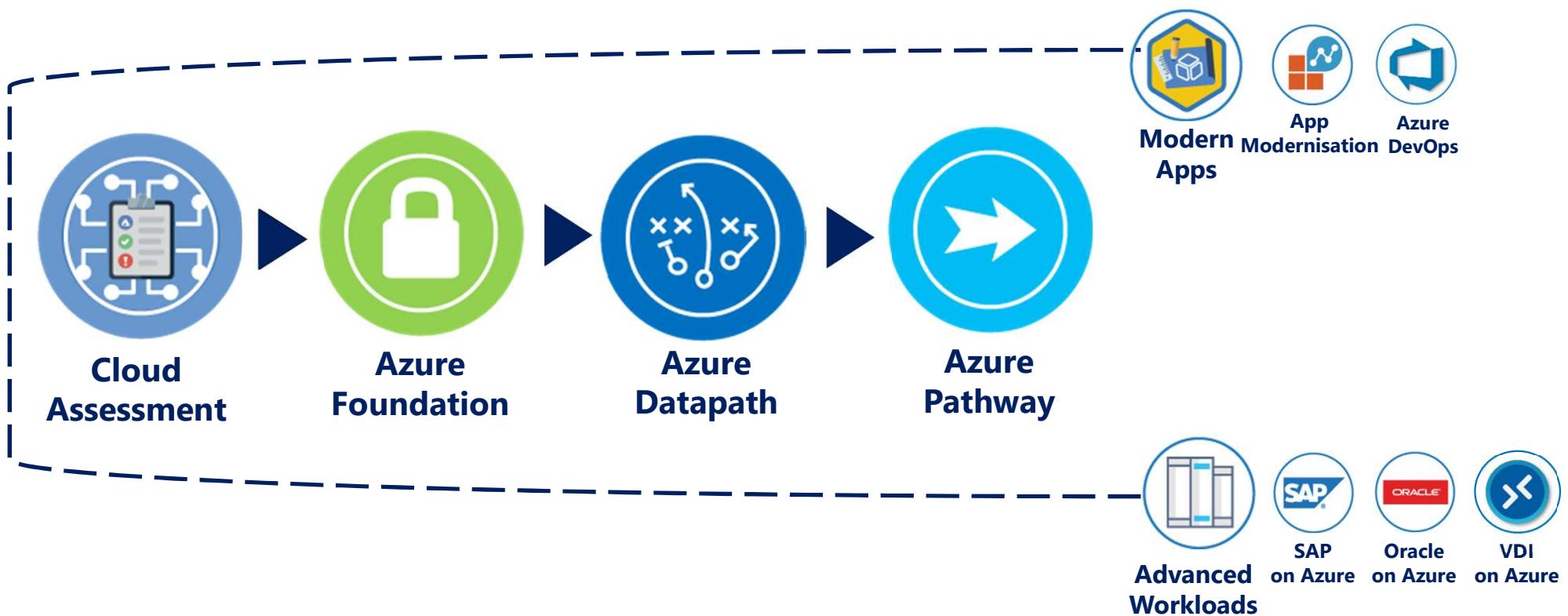
We have been working with the Microsoft Azure platform since 2010, so we understand it more than most people.

That's why our business is built on Microsoft Azure and we live and breathe it every day. We don't just talk about Microsoft Cloud, we deliver it, helping some of the biggest enterprises cloud-power their business, through our Journey to a Modern Enterprise.

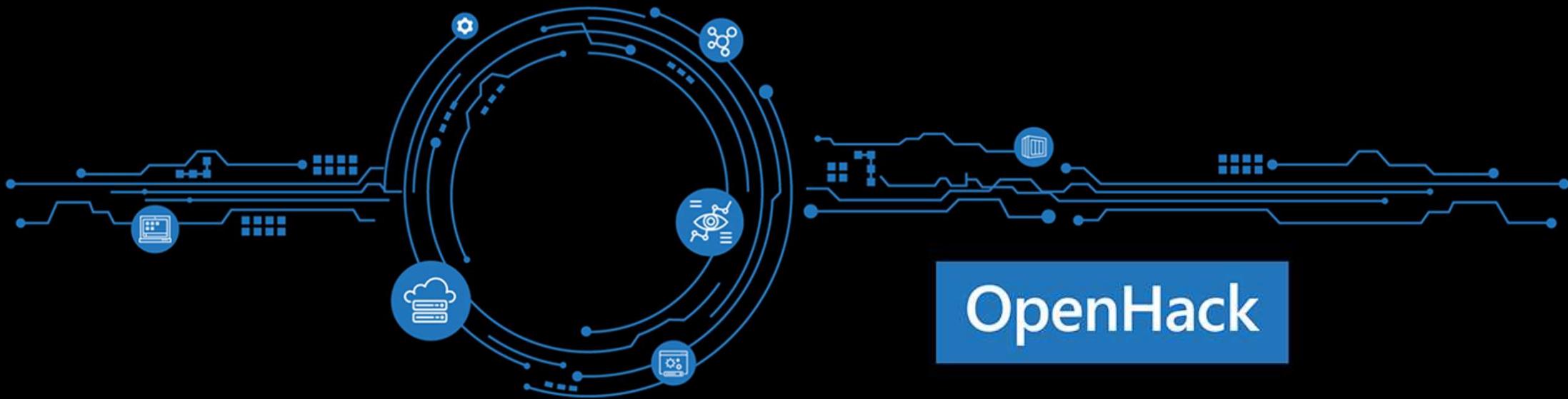


JOURNEY TO A MODERN ENTERPRISE

Our journey to a modern enterprise is our proven process driven approach to moving customers to Microsoft Azure. It is made up of the following individual offerings, built from many years of experience moving customers to the cloud.







Check out our up and coming OpenHacks [here](#)
openhack.microsoft.com



#MSOpenHack



What is OpenHack?



- Challenge Based: increasing difficulty
- Team Based: work together and communicate
- Immersive: real-world scenario
- Feedback: improve product offerings through a direct feedback loop with Engineering and Documentation

Agenda

Timeslot (BST)	Monday	Tuesday	Wednesday
9:00 – 9:15AM	OpenHack Day 1 Kick off	OpenHack Day 2 Kick off	OpenHack Day 3 Kick off
9:15 – 10:00AM		Guest Speaker	Guest Speaker
10:00 – 12:00PM	Team Hacking from 10.00am	Team Hacking from 10.00am	Team Hacking from 10.00am
12:00 – 1:00PM	Lunch Break		
1:00 – 4:30PM	Team Hacking until 5.30pm	Team Hacking until 5.30pm	Team Hacking until 5pm
4.30 – 5.00PM			
5:00 – 5:30PM	Closing remarks		
5:30 – 6:00PM	End of Day 1	End of Day 2	End of OpenHack

A very Merry DevOps!



- 10th December 2020 -
- Starting @ 6.30pm -

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Abel Wang

Senior Cloud Developer Advocate
@abelsquidhead



April Edwards

Senior Software Engineer & Azure Advocate
@theapriledwards



Welsh Azure User Group

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12th November 2020

AGENDA

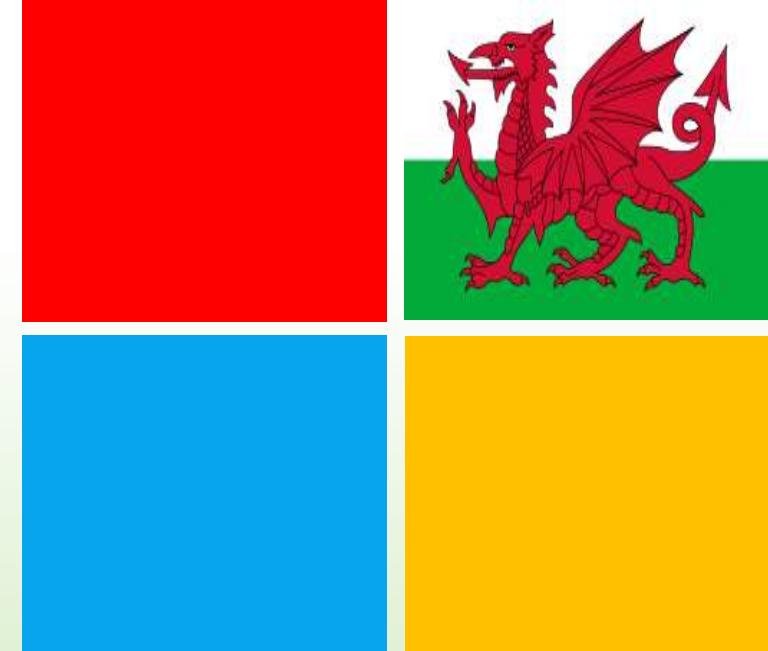
6.30pm - Welcome and Intro

6.45pm - **Admiral BCP and the part WVD played**
(Paul Connah & Richard Lawson – Admiral Group)

7.30pm – **Azure Logic Apps**
Integration as a Service and beyond
(Dave Phelps & Matt Fortunka - Microsoft)

8.15pm - Kahoot Quiz (2 x £50 Amazon voucher Prizes!)

8.30pm – Close (Please don't forget the feedback!)



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How Azure helped with Admiral's COVID-19 response

November 2020



How COVID-19 impacted Admiral's Operation

- March 16th 2020 – Matt Hancock, health and social care secretary tells the House of Commons that “unnecessary social contact” should be avoided.
- March 23rd 2020 – Prime Minister Boris Johnson tells people they must stay at home and requires some businesses to close

In the lead up to the crisis Admiral needed to change the way its employees worked...

“Everybody needs to work from home”

March 20th

~200 agents working from home
300 VPN users
Office-based workforce
UK workforce using PCs in the office

March 23rd

>7000 employees needing to work from home
Home-based workforce
Workforce can't access their PCs

What have we got and how can it support more people?

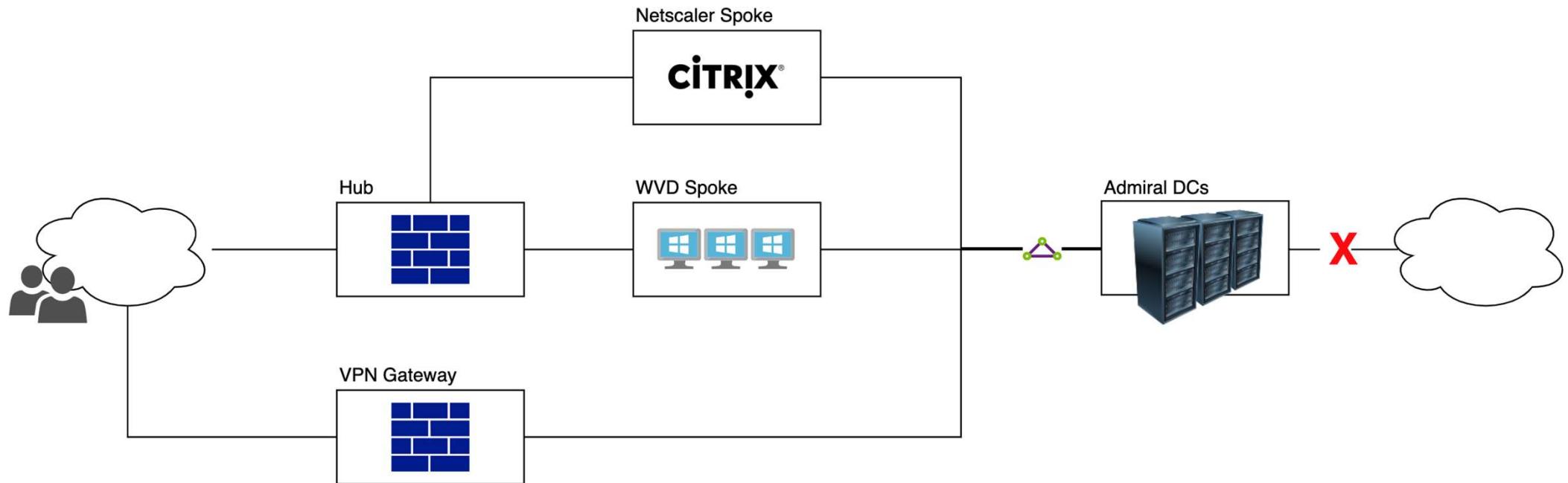
- Remote access gateways
 - Capable of supporting ~500 users
 - VPN Gateway – limited by licenses, internet bandwidth, and firewall capacity
- Virtual Desktops
 - Capable of supporting ~1400 users
 - VDI (desktops on servers) – limited by compute (number of servers)
 - VDA (direct desktop connection) – not robust
- Microsoft Azure resources
 - "Unlimited" resources
 - No existing remote access infrastructure deployed
- Cloud resources
 - 100Mbps – capable of 10Gbps - connection to Cardiff and Swansea datacentres
 - Network and infrastructure code

Off we go!

Split into two delivery teams:

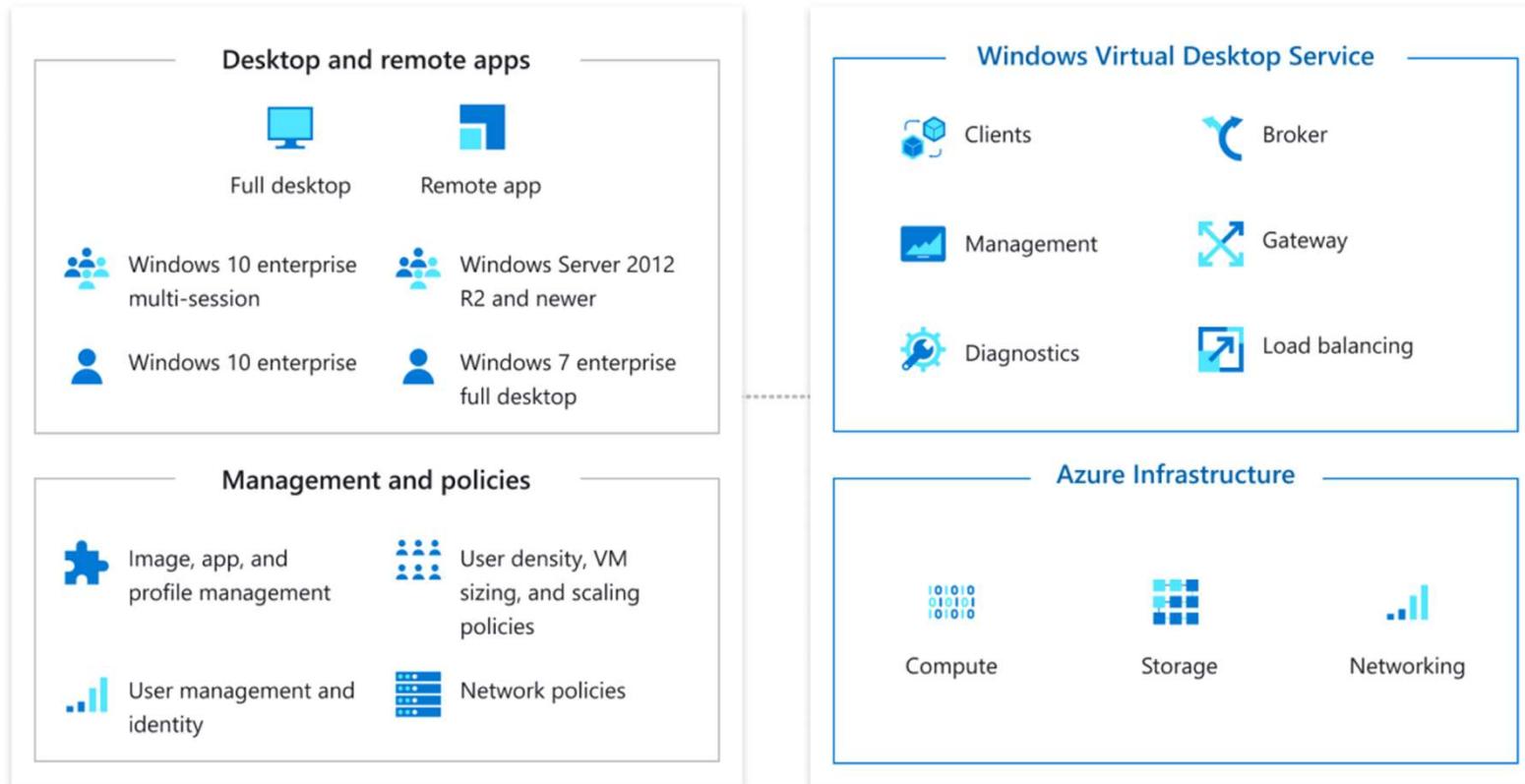
- Stream 1 - Ship laptops and configure for VPN access
 - Add server capacity to Citrix estate
 - Add Swivel and Citrix licenses
 - Buy a lot of laptops!
- Stream 2 – Access through cloud
 - 2A – Azure Windows Virtual Desktop
 - 2C – Citrix Netscaler Gateways

Quickly delivering cloud solutions for BCP

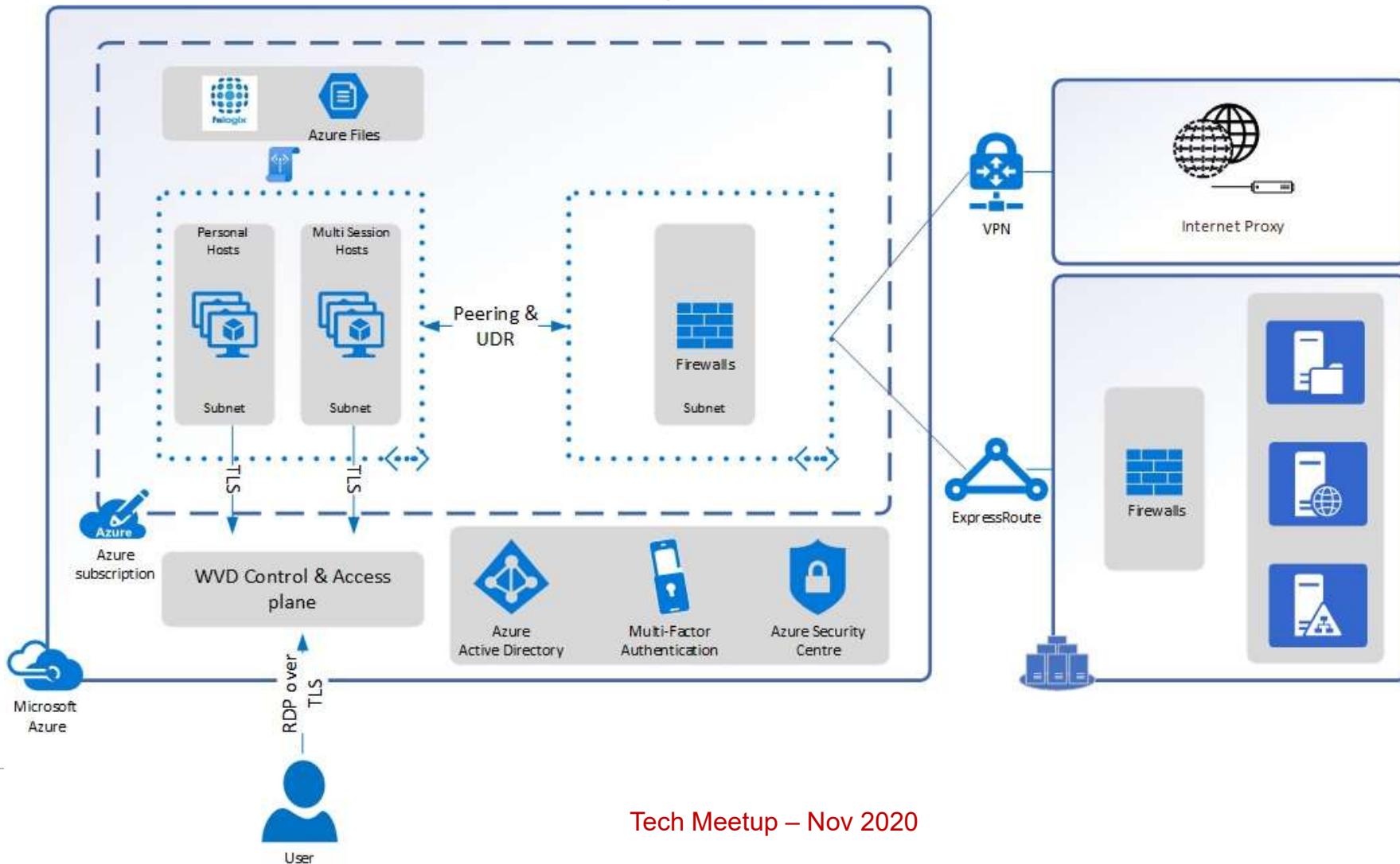


Windows Virtual Desktop

Your subscription—your control



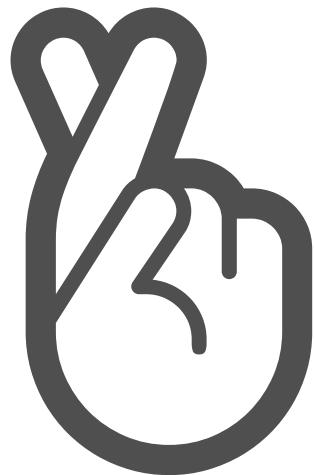
Windows Virtual Desktop Architecture



Windows Virtual Desktop

- Configuring the platform
- Image management
- Networking and connectivity

Windows Virtual Desktop - Demo

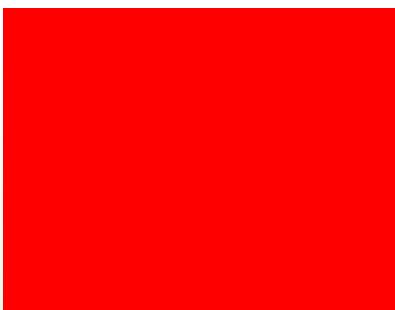


WVD – Admiral's experience

- Quickly up and running
- Easy to access from anywhere on any device
- Optimised Teams
- Changes to multi-use machines reduced cost and provided scaling opportunities
- Management improvements through Spring release
- Required a lot of firewall rules
- Not optimized for audio and video
- Constraints on Azure resources

Thank you

Proud to be sponsored by:



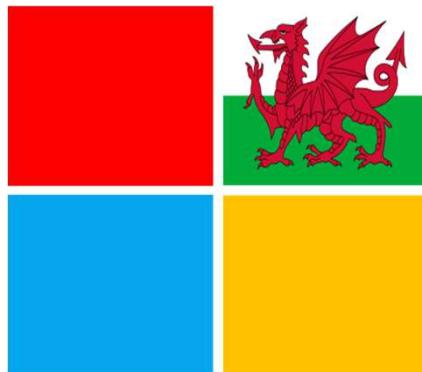
Welsh Azure User Group



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**Demo not
recorded to
Protect Admirals
Privacy**

wvdcommunity.com



 @welshazure

The screenshot shows the homepage of the WVD Community website. The header features a navigation bar with links for HOME, BLOG, WEEKLY NEWSLETTER, PODCASTS, USER GROUPS, EVENTS, and RESOURCES. Below the header, there's a main section with a dark background featuring white text and a large orange circular icon with a white 'K' symbol. The text reads:

Welcome to the
WVD Community site

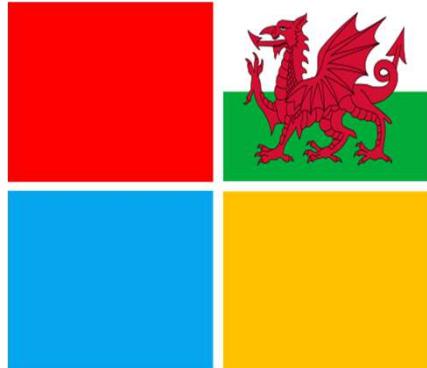
The aim of this website is to have a single place where you can go to learn about everything related to Windows Virtual Desktop.

This is a community site where anybody is free to come and create guest posts if they want to, or just come and have a look around.

We will be creating regular weekly blog content, scripts, a weekly newsletter, posting links to the latest community WVD Blogs, podcasts and much much more.

[To the weekly newsletter](#) [To the podcasts](#)

[Become a Slack Champion today!](#)



 @welshazure



Blogs

Name

Twitter

<https://christiaanbrinkhoff.com/>

Christian
Brinkhoff

https://twitter.com/Brinkhoff_C

<https://www.basvankaam.com/>

Bas van Kaam

<https://twitter.com/BasvanKaam>

<https://blog.itprocloud.de/>

Marcel Meurer

<https://twitter.com/MarcelMeurer>

<https://stefandingemanse.com/>

Stefan
Dingemanse

[https://twitter.com/sdingemanse?
lang=en](https://twitter.com/sdingemanse?lang=en)

<http://microsoftplatform.blogspot.com/>

Freek Berson

<https://twitter.com/fberson>

<https://blog.petersenit.co.uk/>

Neil Petersen

<https://xenithit.blogspot.com/>

Tom Hickling

<https://twitter.com/tomhickling>

<https://www.windowsvirtualdesktop.blog/>

Michael Roth

<https://twitter.com/michelroth>

<https://www.cloud-architect.be/>

Micha Wets

<https://twitter.com/michawets>

<https://v-desktops.com/>

Various

<https://twitter.com/VDesktops>

<https://www.poppelgaard.com/>

Thomas
Poppelgaard

https://twitter.com/_POPPELGAARD

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RECENT POSTS

[WVD Weekly Blog post 1st November – 8th November 2020](#)

[WVD Weekly Blog post 25th October – 1st November 2020](#)

[WVD Weekly Blog post 18th October – 25th October 2020](#)

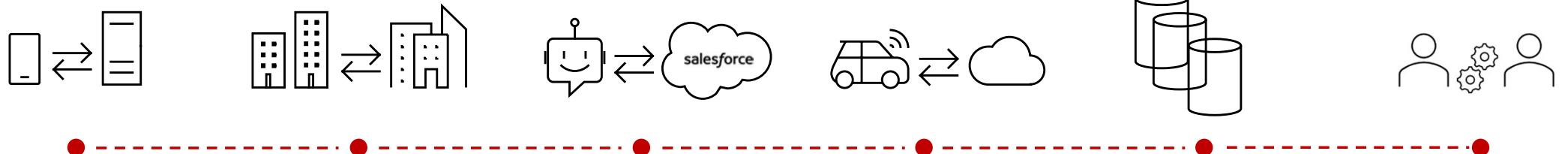
[WVD Weekly Blog post 11th October – 18th October 2020](#)



Azure Logic Apps v2

Dave Phelps, Cloud Solution Architect
david.phelps@microsoft.com

Integration is Everything



Application to Application

Business to Business

SaaS

IoT

Data & Analytics

People & Processes

EAI, messaging,
protocols,
cloud /on-premises

EDI, X12,
EDIFACT, AS2,
RosettaNet,
HL7, FHIR, EBIX

Consumer,
Enterprise,
First Party /
Third Party

Devices, things,
edge

Databases, file
systems,
warehouses,
ETL, MDM

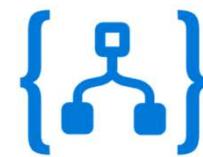
RPA, Approvals,
task automation,
Power Apps

Integration Platform

APIs: publish, manage and monitor HTTP APIs



Messages: reliably pass messages between systems



Workflow: orchestrate calls to systems and services



Events: react to system or data changes



API Management



Logic Apps



Service Bus



Event Grid

Azure Resource
Manager



Azure Monitor



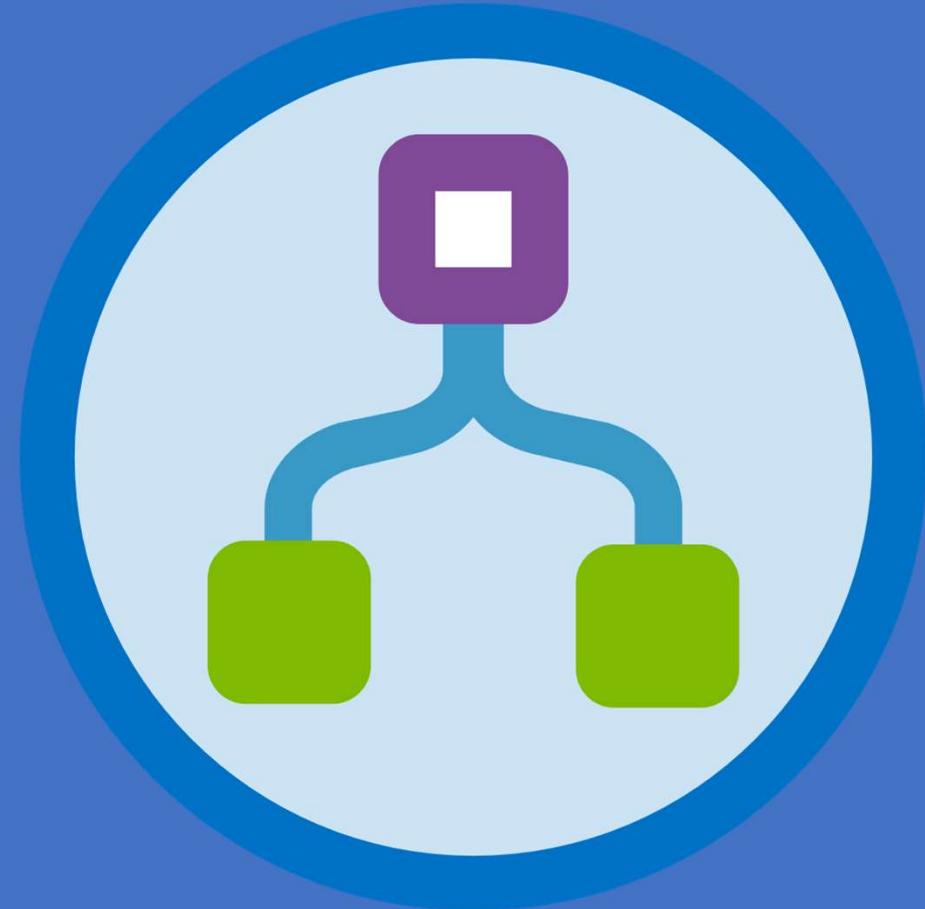
Azure AD



Azure Integration Services

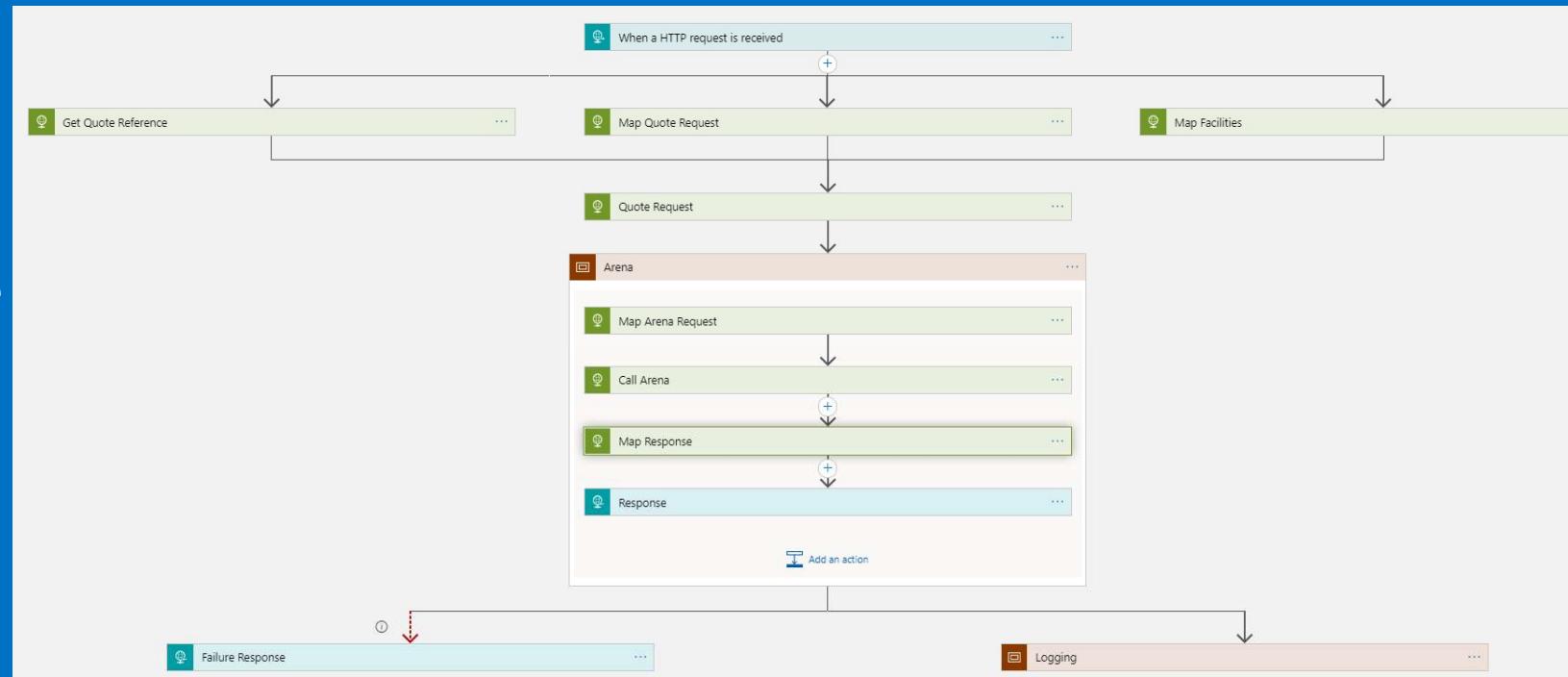


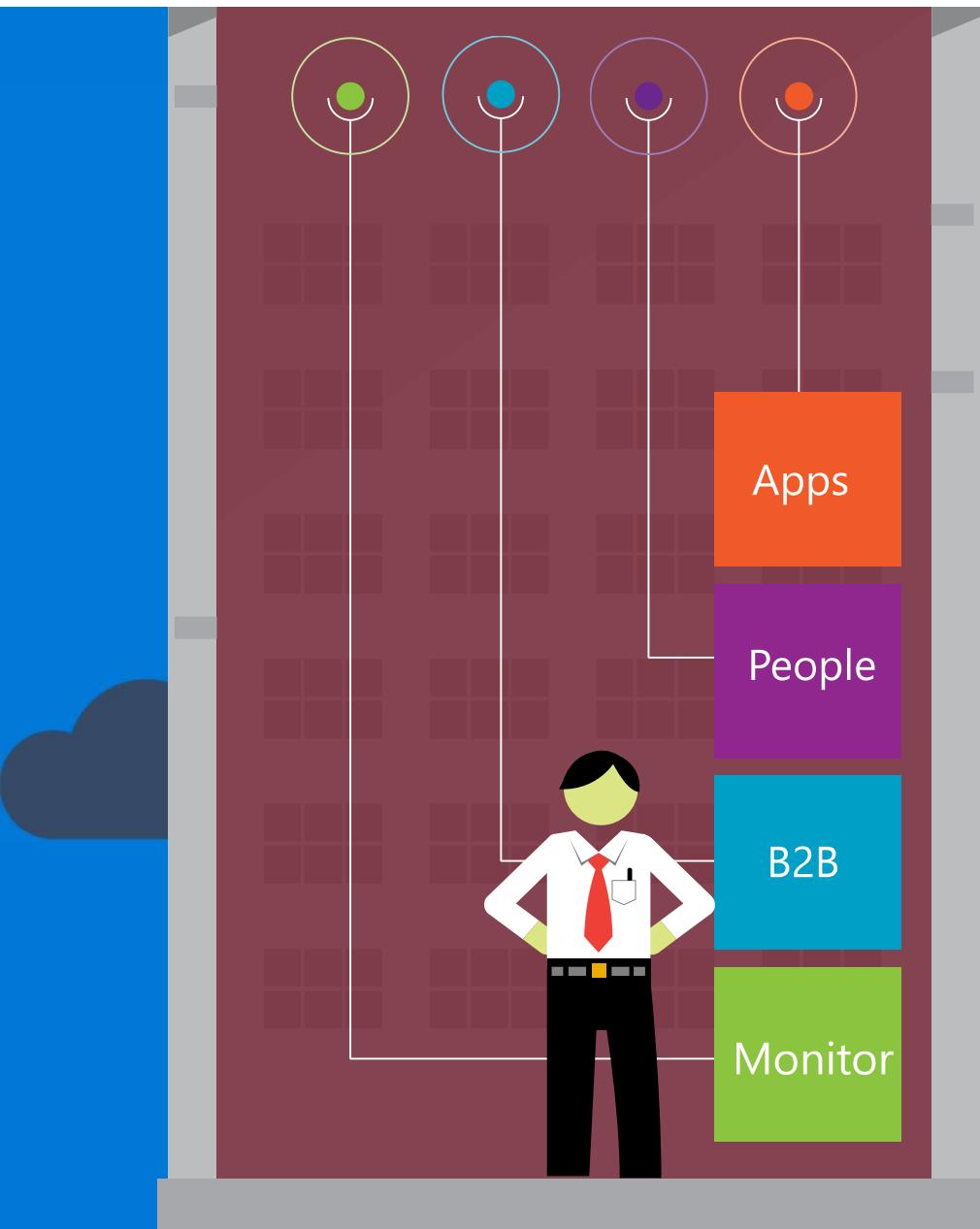
Workflow with Azure Logic Apps



Azure Logic Apps

- Orchestrate calls between systems and APIs
- Visual Workflow Designer
- Highly available and scalable
- Persisted state
- Long running processes
- Rich telemetry with Azure Monitor





Complex Scenarios

- Orchestration of systems and processes
- Publish and Subscribe with Service Bus
- Parallel execution in designer
- Mediation Patterns (Request Response, One Way etc.)
- Conditional Execution, looping
- Batching/Debatching
- Format Conversion (XML, JSON, FlatFile)
- Message Transformation with Liquid and XSLT
- Nested Workflows
- Trading Partner Management, AS2/X12/EDIFACT

Connectors

Cloud APIs and platform functionality

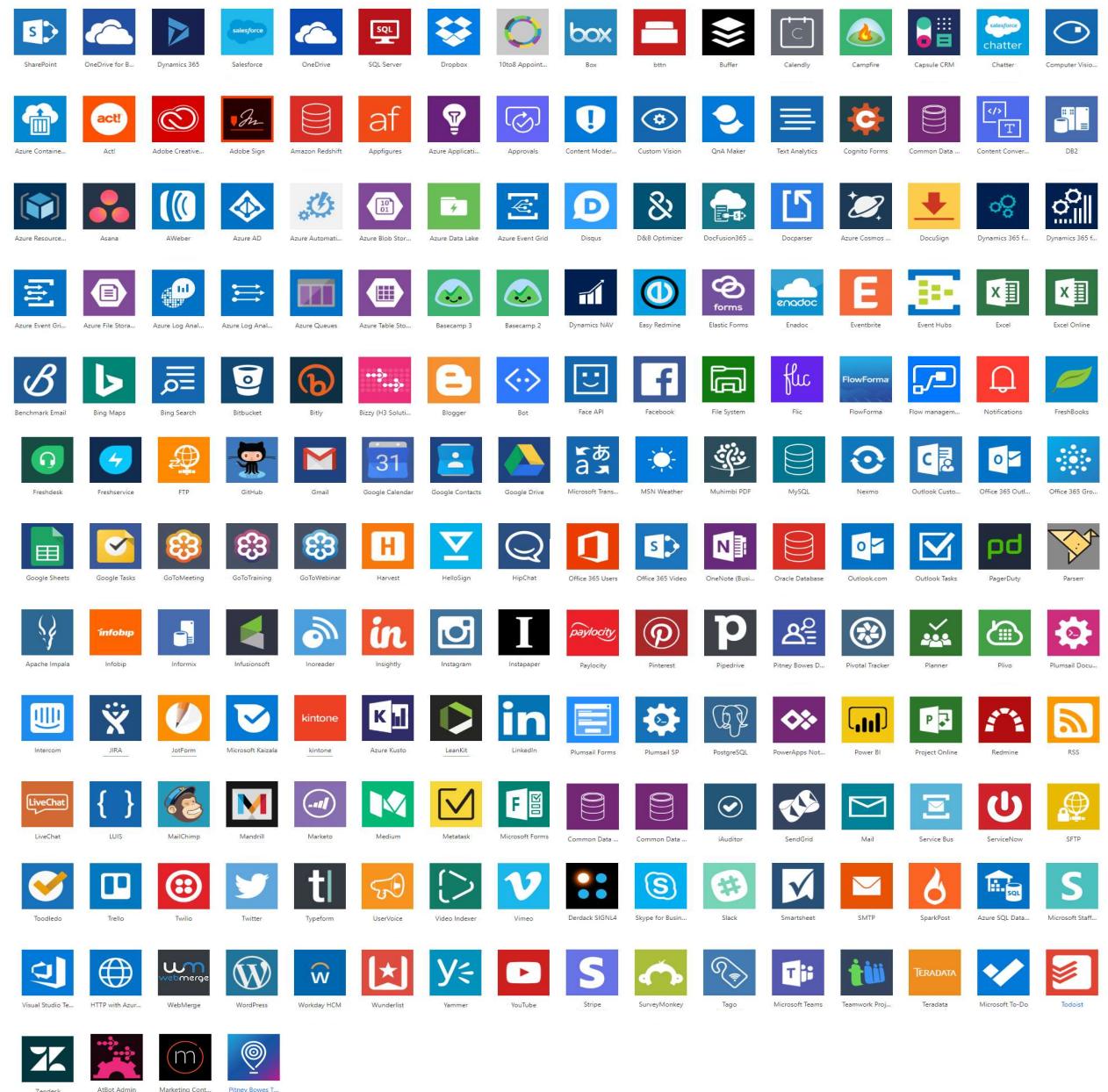
400+ built-in connectors, many open source

Azure Hosted and managed

First class designer experience

Rapid development

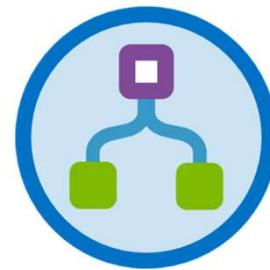
<https://docs.microsoft.com/en-gb/connectors/>





Logic Apps Hosting Options

- Consumption – pay for what you use (per action cost)
- Integration Service Environment – flat cost, more networking options
- Logic Apps v2 – Functions Runtime or anywhere (preview)



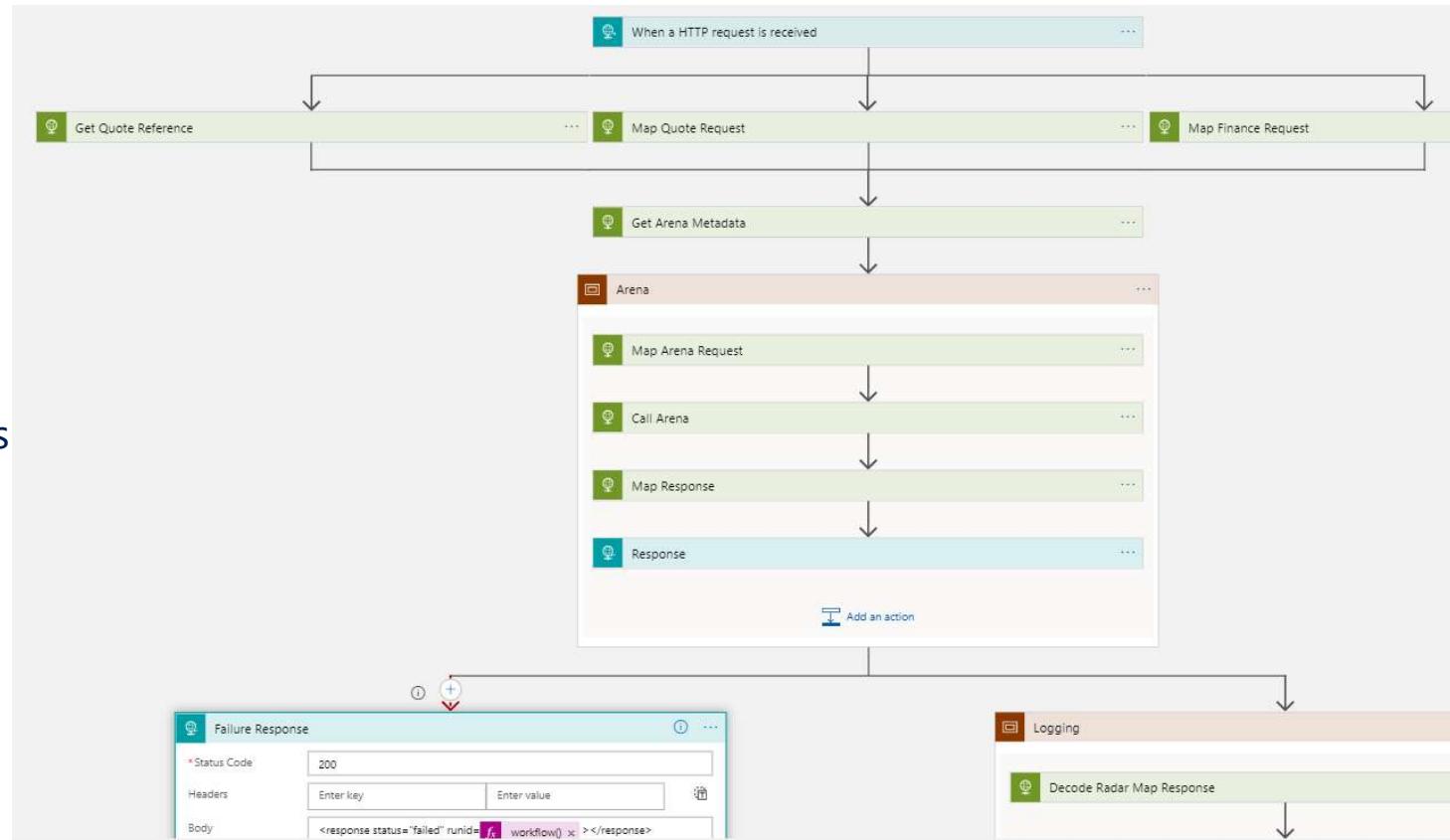


Azure Logic Apps v2 (public preview)



Azure Logic Apps

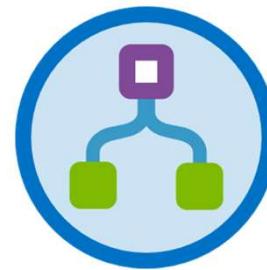
- Customers love Logic Apps!
- Over 40,000 customers
- Visual Designer
- Serverless – abstraction of servers
- Build integrations quickly
- Native Azure integration
- Highly available and scalable
- 400+ connectors





Logic Apps Hosting Options

- Consumption – pay for what you use (per action cost)
- Integration Service Environment – flat cost, more networking options
- Logic Apps v2 – Functions Runtime or anywhere (preview)



Azure Functions



- Customers love Functions!
- Develop code in .NET Core, Java, Node JS etc.
- Serverless – abstraction of servers
- Local Development in Visual Studio with local debugging
- Highly scalable and available
- Flexible hosting and networking
- Deployment Slots

```
[FunctionName("ADAAuth")]

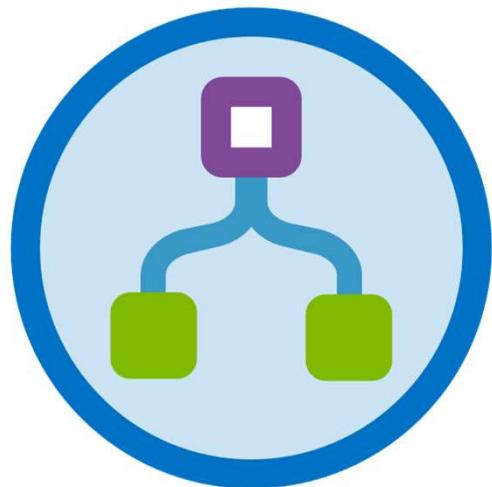
public static async Task<IActionResult> Run(
    [HttpTrigger(AuthorizationLevel.Function, "get", "post", Route =
    ILogger log, ClaimsPrincipal principal)
{
    string ret = string.Empty;
    string filename = string.Empty;
    string username = string.Empty;

    try
    {
        string claims = string.Empty;
        log.LogInformation("C# HTTP trigger function processed a requ
        filename = req.Query["filename"];
        //CheckAccess("daphelps@microsoft.com", "AZ203 Learning Path.

        string accountName = "storageadtestdp";
```



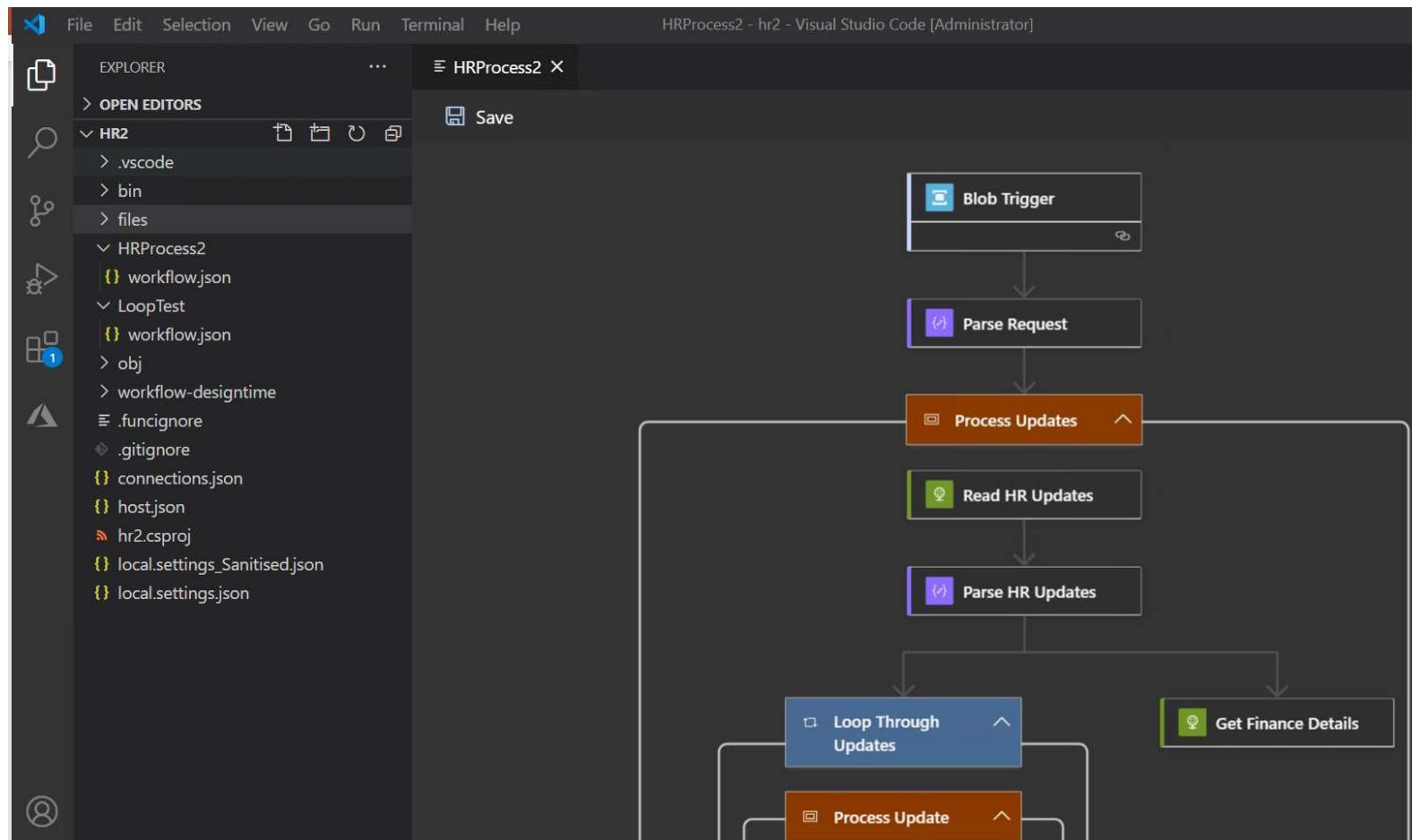
Logic Apps on the Functions Runtime!



Public preview September 2020



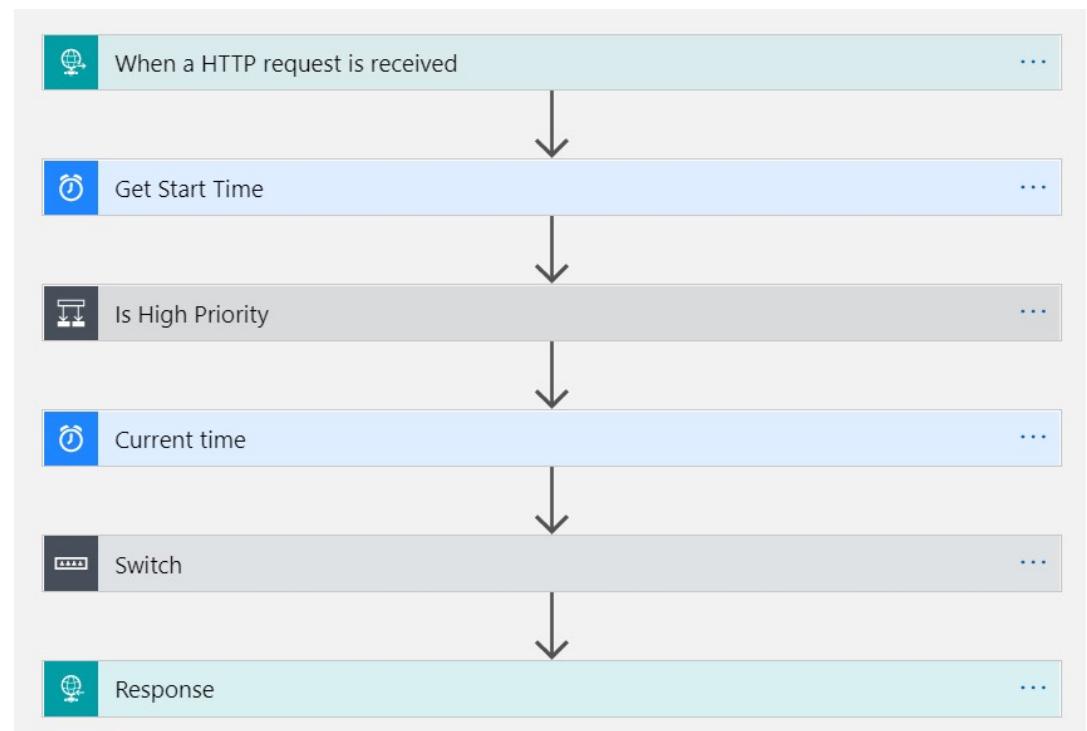
- New Designer, develop and test locally with VS Code





New stateless Logic Apps

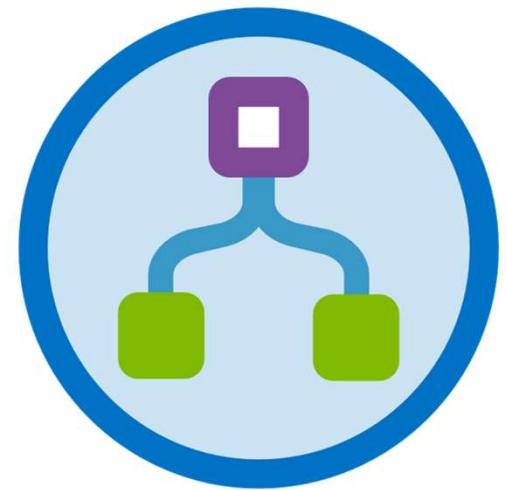
- No state persistence for increased performance
- For low latency synchronous scenarios





Networking and Security

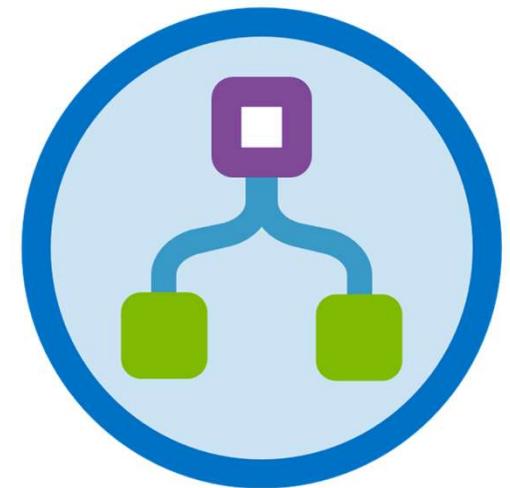
- Private IP address through private link
- VNET connectivity – natively access private resources
- Rich OAUTH authorization (.e.g., lock down by Azure AD)





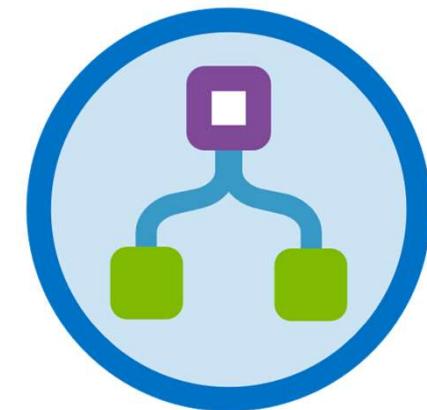
Monitoring

- Application Insights support
- Seamless correlation





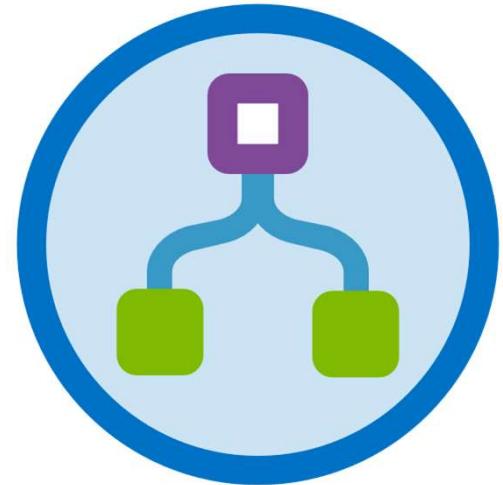
Containerized Logic Apps – run anywhere





Demos (Logic Apps Public Preview)

1. Visual Studio Code experience
2. Logic App running locally connecting through VNET to Azure private SQL Database with private IP address and an Azure Function also with a private IP address
3. Logic App deployed with a private IP address
4. Stateless Logic Apps
5. Application Insights sneak peak



Logic Apps on Functions Runtime - Summary

Improvements across the board



RUNTIME FLEXIBILITY

Re-hostable in Functions, and containers, e.g., Kubernetes



NEW DESIGNER

More compact, clean look for more complex flows
New layout controls, contextual panels for easier authoring



BETTER DEVELOPMENT EXPERIENCE

New VS Code extension, local dev/test inner loop, code+workflow integration with Functions
Github actions, improved CI/CD, slots



IMPROVED EXECUTION PERFORMANCE



BETTER CONNECTED

VNET, private endpoints, App Insights

Resources

Azure Logic Apps Overview

<https://docs.microsoft.com/en-us/azure/logic-apps/logic-apps-overview>

Logic Apps Update

<https://techcommunity.microsoft.com/t5/azure-developer-community-blog/new-logic-apps-runtime-performance-and-developer-improvements/ba-p/1645335>



Welsh Azure User Group

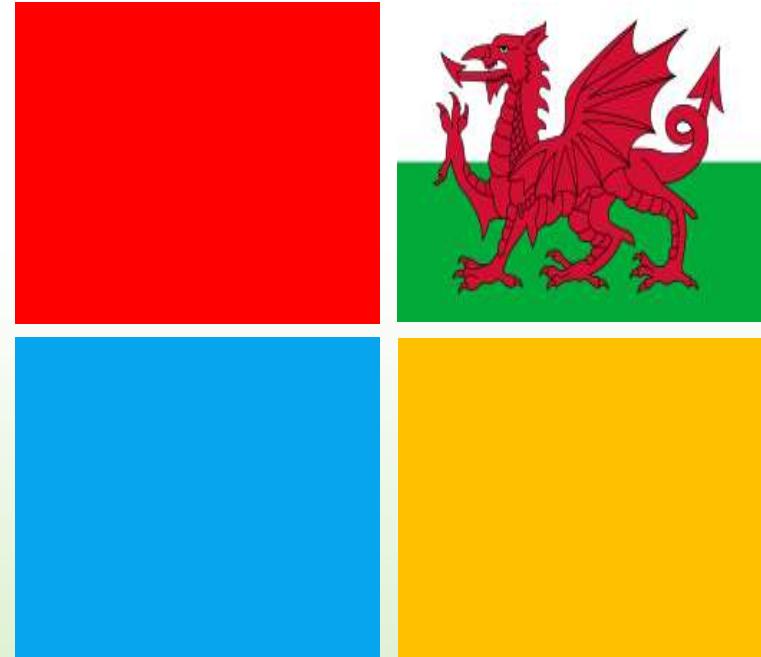
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12th November 2020

We will be back in:

10:00

Go grab a cuppa ☺



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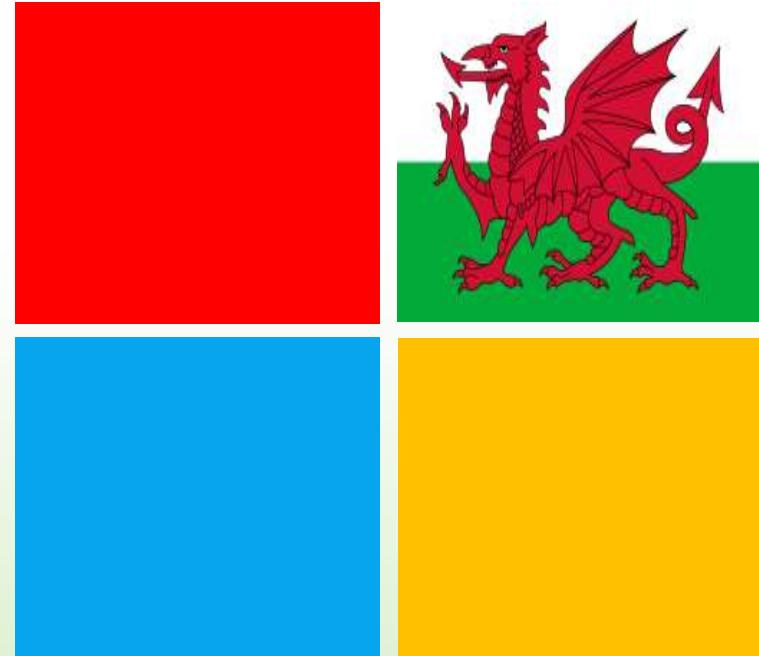
-Virtual Meet Up-

12th November 2020

We will be back in:

5:00

Go grab a cuppa ☺



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- 10th December 2020 -
- Starting @ 6.30pm -

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Senior Cloud Developer Advocate
@abelsquidhead



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Senior Software Engineer & Azure Advocate
@theapriledwards



Welsh Azure User Group

-Virtual Meet Up-

12th November 2020

THANK YOU FOR ATTENDING

Please help us grow the community!

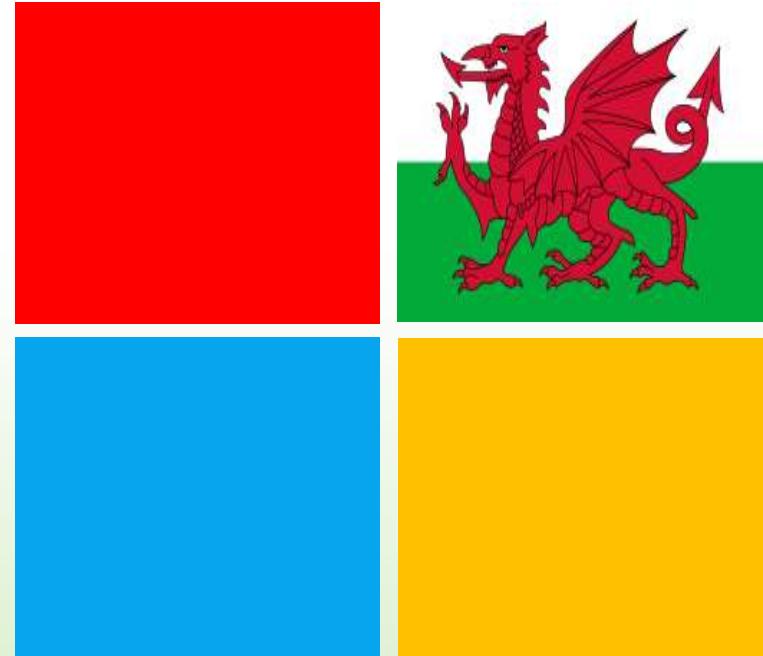
Save the Dates for the Next Meet Up's

10th December 2020 – 6.30pm – 8.30pm

14th January 2021 - 6.30pm-8.30pm



Please complete our
feedback form chance to win:
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