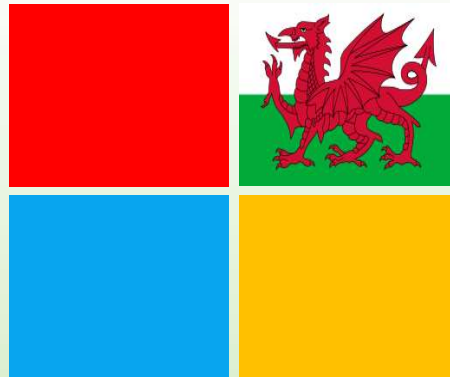


sponsored by:

servent

Welsh Azure User Group -Virtual Meet Up-

10th September 2020



Follow and tweet along using **#waug**

THE MEETING WILL BEGIN SHORTLY



<https://cutt.ly/welshazure>



@welshazure

Welsh Azure User Group

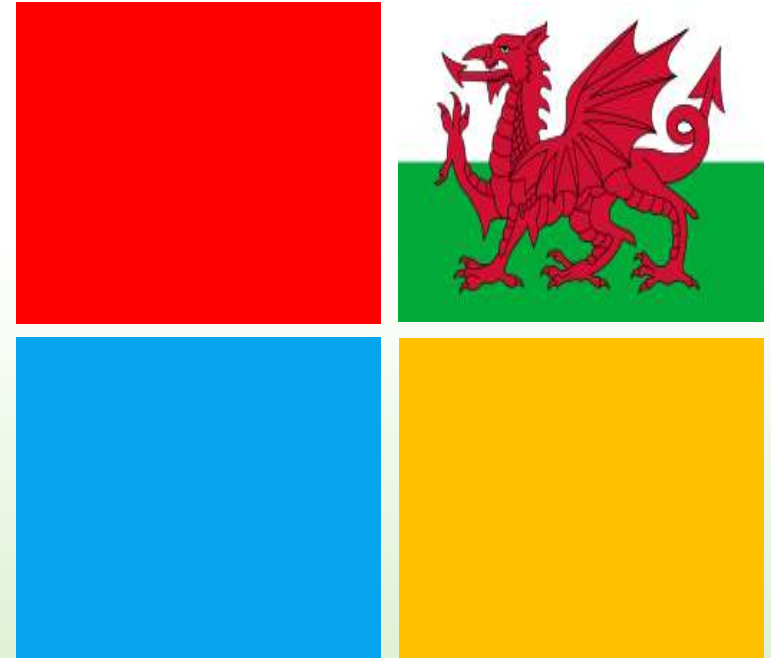
-Virtual Meet Up-

10th September 2020

HOUSE KEEPING

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

servent



<https://cutt.ly/welshazure>



@welshazure

Follow and tweet along using **#waug**

Welsh Azure User Group -Virtual Meet Up-

10th September 2020

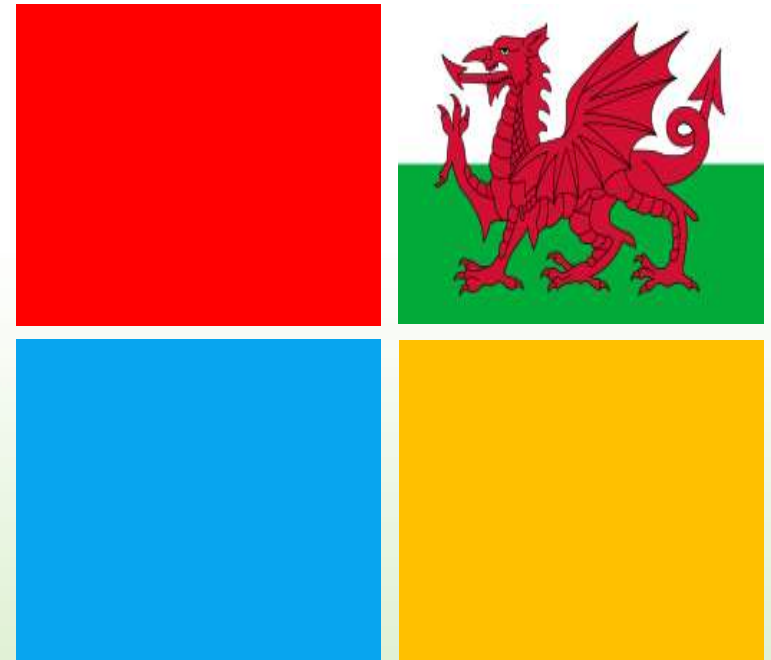
YOUR WAUG HOSTS

- 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

servent



<https://cutt.ly/welshazure>



@welshazure

Follow and tweet along using **#waug**

A message from our sponsors:



servent.co.uk



Modern Enterprise Acceleration



Microsoft
Partner



Microsoft

Gold Cloud Platform
Gold Application Development
Silver Security
Silver DevOps
Silver Data Analytics

WHO WE ARE

ABOUT SERVENT



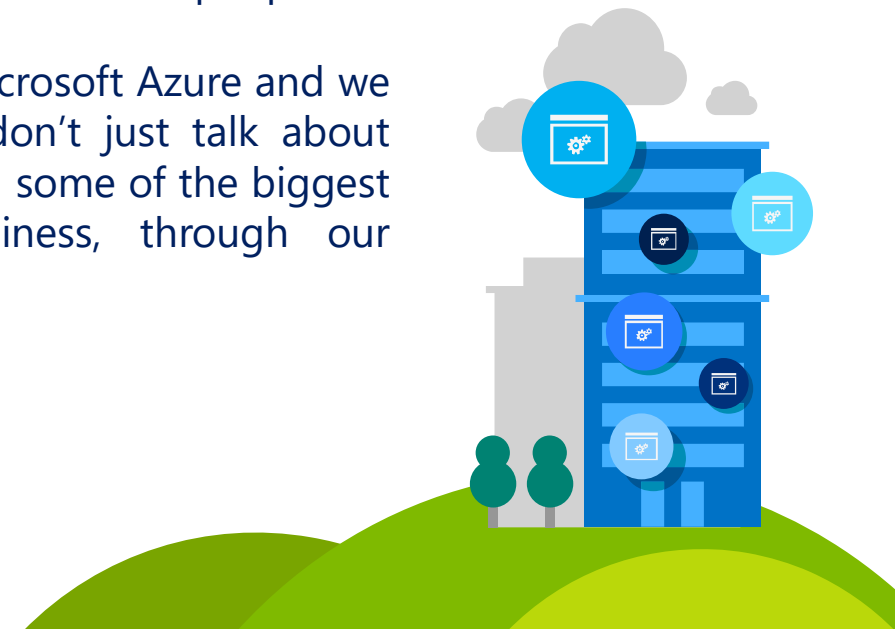
**22 Montrose Street
Glasgow
G1 1RE**

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.

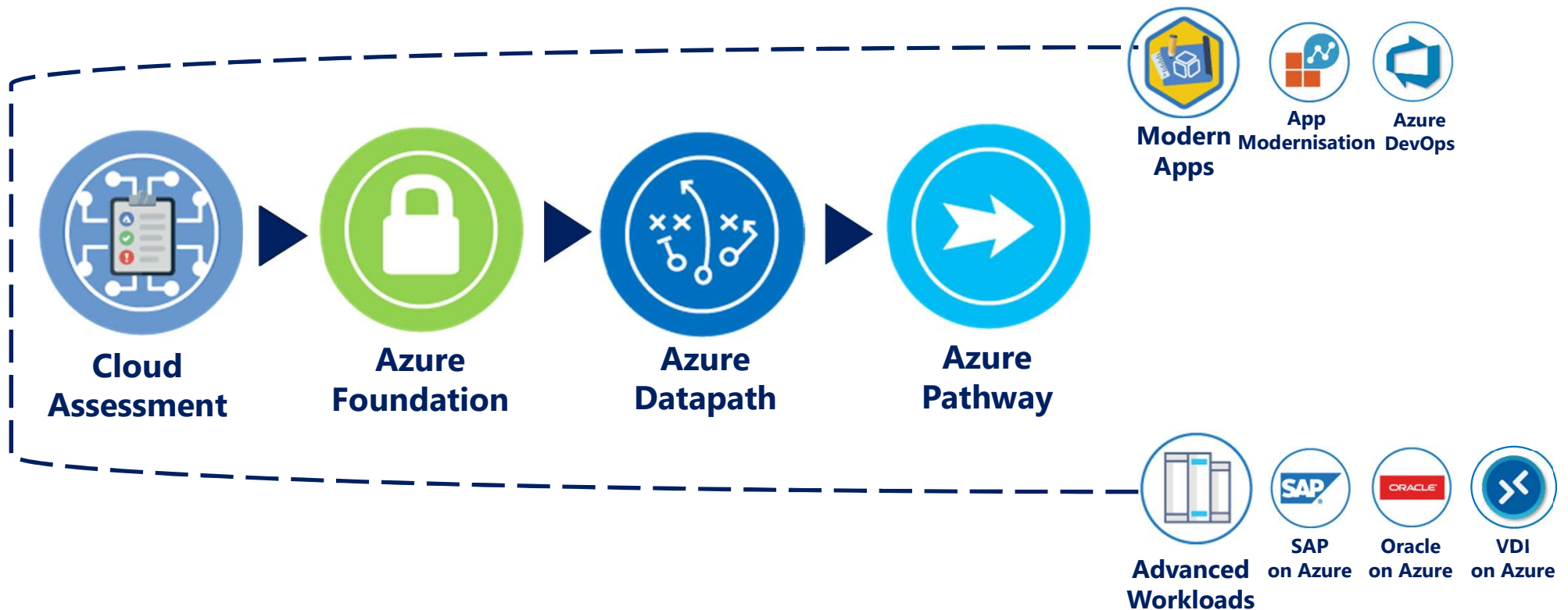
We have been working with the Microsoft Azure platform since 2010, so we understand it more than most people.

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. Its is made up of the following individual offerings, built from many years of experience moving customers to the cloud.



Welsh Azure User Group

-Virtual Meet Up-

10th September 2020

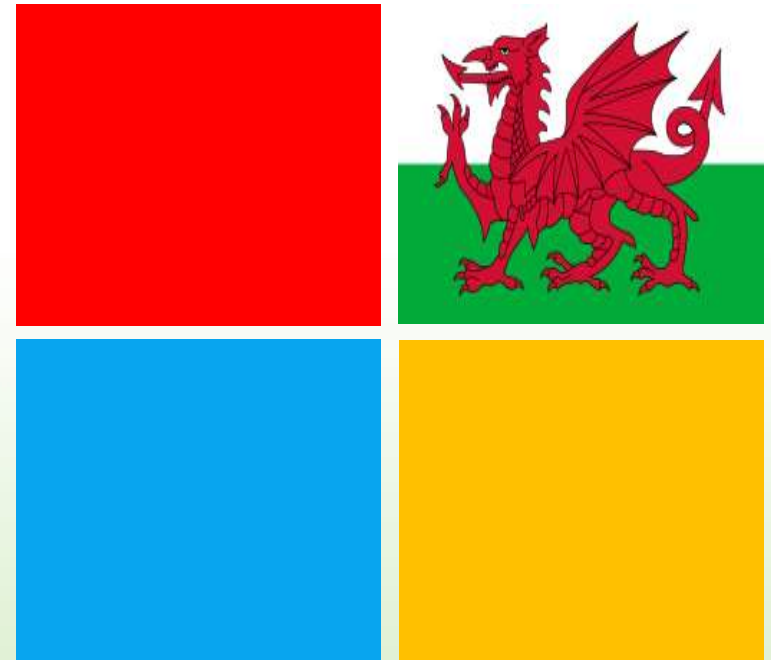
AGENDA

- 6.30pm - Welcome and Intro
- 6.35pm - **Microsoft Cloud Adoption Framework Overview**
(John Lunn — BT Technical Architect)
- 7.05pm - **Enterprise Scale Landing Zones**
(Chris Whitehead — Microsoft Cloud Solutions Architect)
- 7.35pm - Break
- 7.45pm - **Using Azure Blueprints – Examples**
(Richard Griffiths — Confused.com Data Solutions Architect)
- 8.15pm - Quiz
- 8.30pm – Close

£25 vouchers



servent

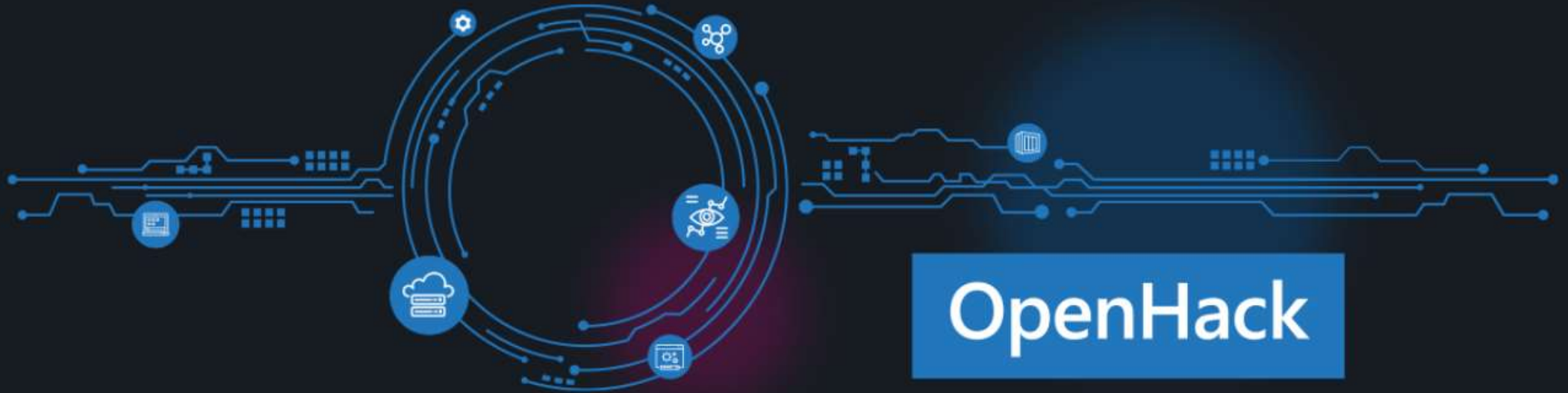


<https://cutt.ly/welshazure>



@welshazure

Follow and tweet along using #waug



OpenHack



AI-Powered
Knowledge
Mining



App
Modernization
with NoSQL



Containers



DevOps



Modern
Data
Warehousing



DevOps for
Data
Science



Dynamics
365 +
Power
Platform



Migrating
Microsoft
workloads
to Azure



Serverless

openhack.microsoft.com



Cloud Adoption Framework for Azure | Overview

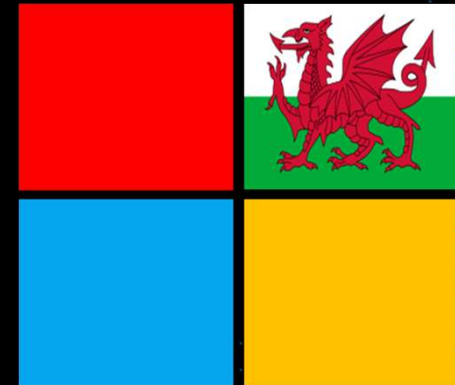
John Lunn
Technical Architect – BT Enterprise



@jonnychipz



www.linkedin.com/in/japlunn



Agenda

- Why is cloud adoption important?
- Overview: Microsoft Cloud Adoption Framework for Azure
- Overcoming common blockers
- Tools, templates, and assessments
- Find a Partner



Why is cloud adoption important?

... but change is difficult.
We understand that.
Change impacts your
people, your culture, and
feels risky.

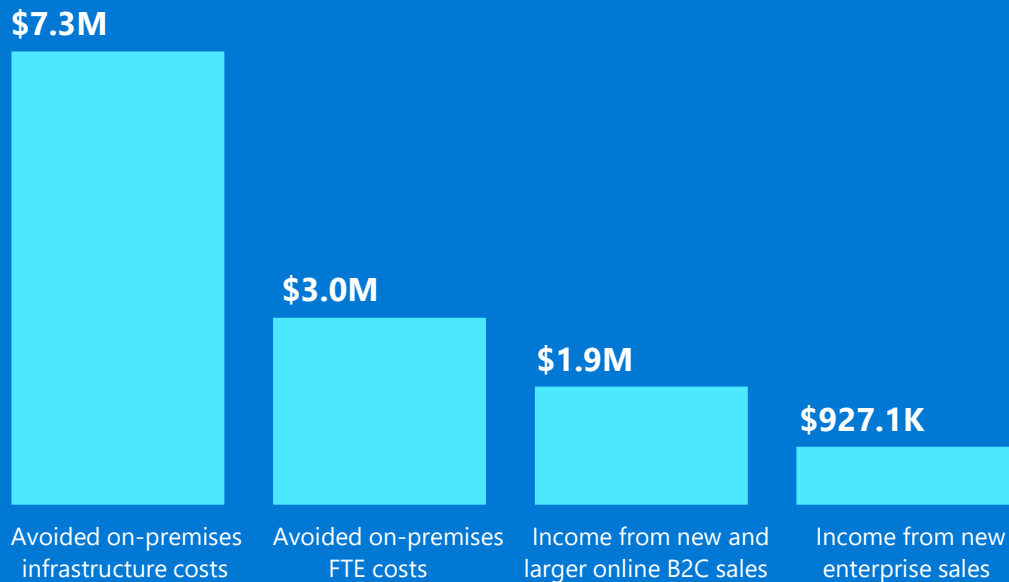
Change requires radical thinking.

It requires leaders to adapt,
take risks, and learn quickly.

Change requires a culture shift
within your organization,
and starts with you.

Modernization drives measurable ROI

Benefits (Three-Year)



¹Forrester Total Economic Impact™ Study Commissioned By Microsoft, August 2019, The Total Economic Impact™ Of Microsoft Azure IaaS Cost Savings And Business Benefits Enabled By Azure Infrastructure-As-A-Service (IaaS)

Shifting from on-premises operations to the cloud favors your bottom line

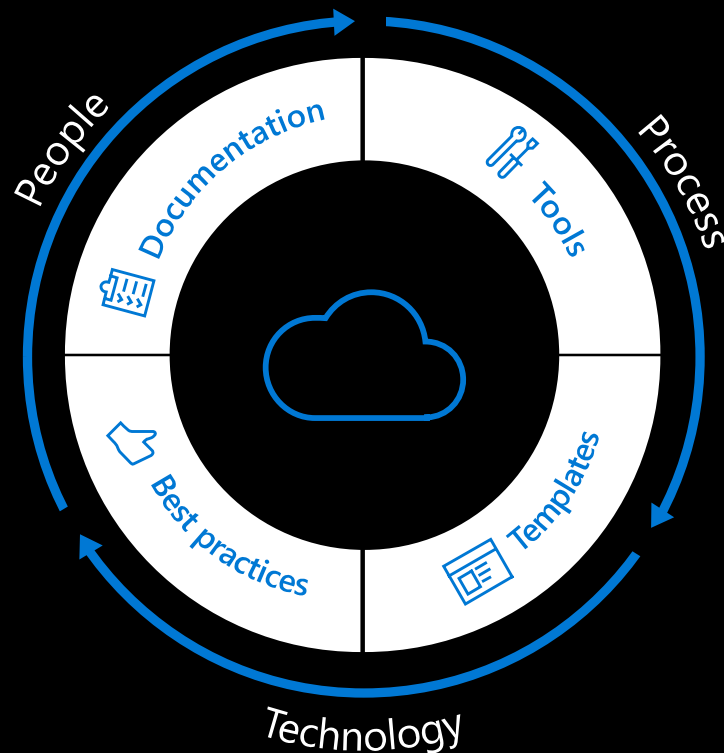
Research findings¹ indicate organizations with Azure-mature tenure (three-years):

- experience benefits of \$13.1 million over three years versus costs of \$2.3 million
- benefits add up to a net present value (NPV) of \$10.8 million and an ROI of 478%.



Overview: Microsoft Cloud Adoption Framework for Azure

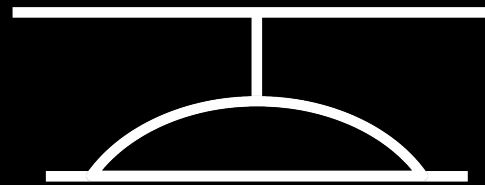
Achieve balance. Deliver modernization



Control &
Stability



Speed &
Results



Align—business, people and technology strategy.

Achieve—business goals with actionable, efficient, and comprehensive guidance.

Deliver—fast results with control and stability.

An iterative process
that supports your
business ... as it evolves



Microsoft Cloud Adoption Framework for Azure

Proven guidance to accelerate your cloud adoption journey



Define strategy

Define business justification and expected outcomes



Plan

Align actionable cloud adoption plan to business outcomes



Ready

Prepare people, process and environment for change



Adopt

Migrate or Innovate
Implement desired changes across IT and business processes



Govern

Comply, control and secure

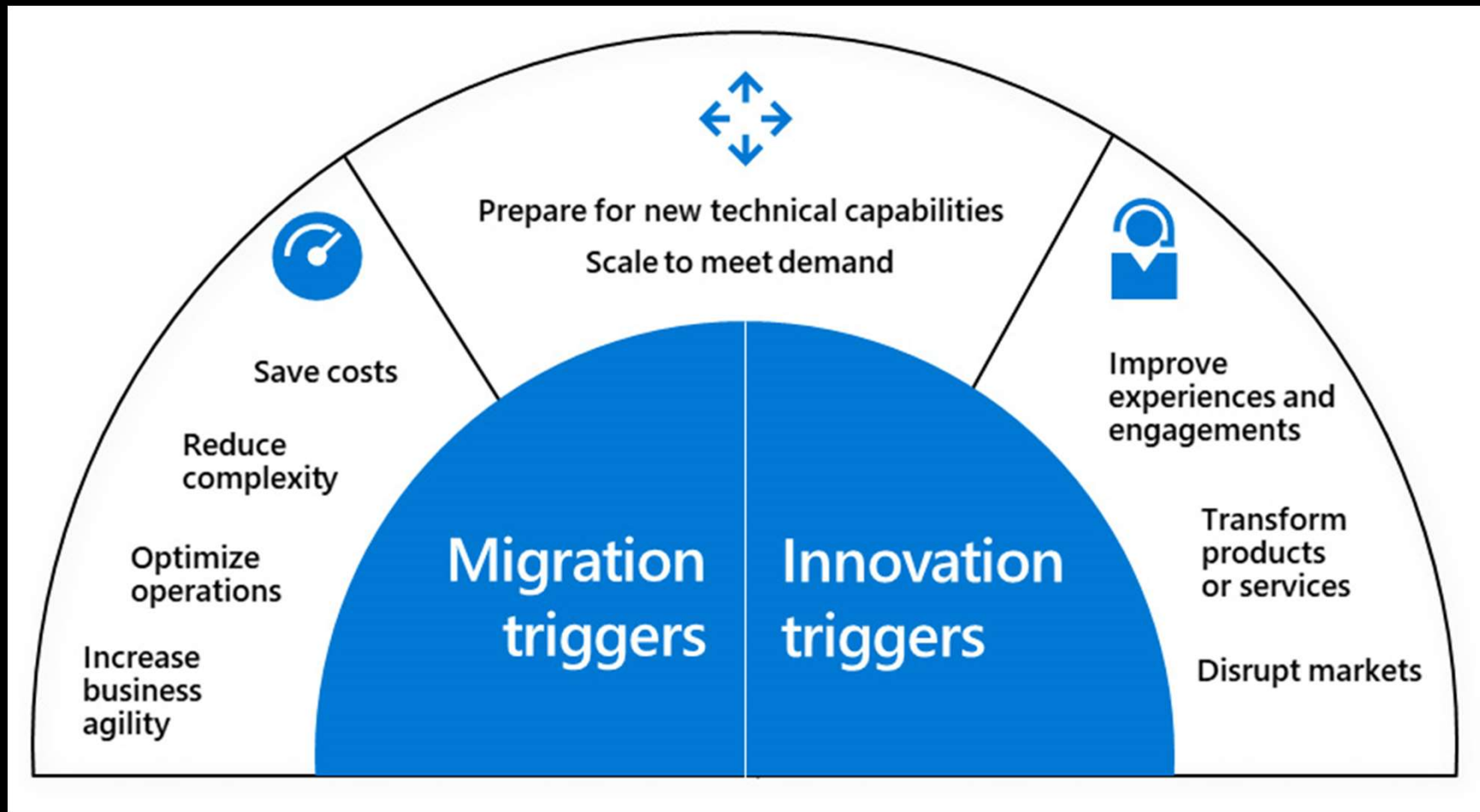


Manage

Operate and optimize

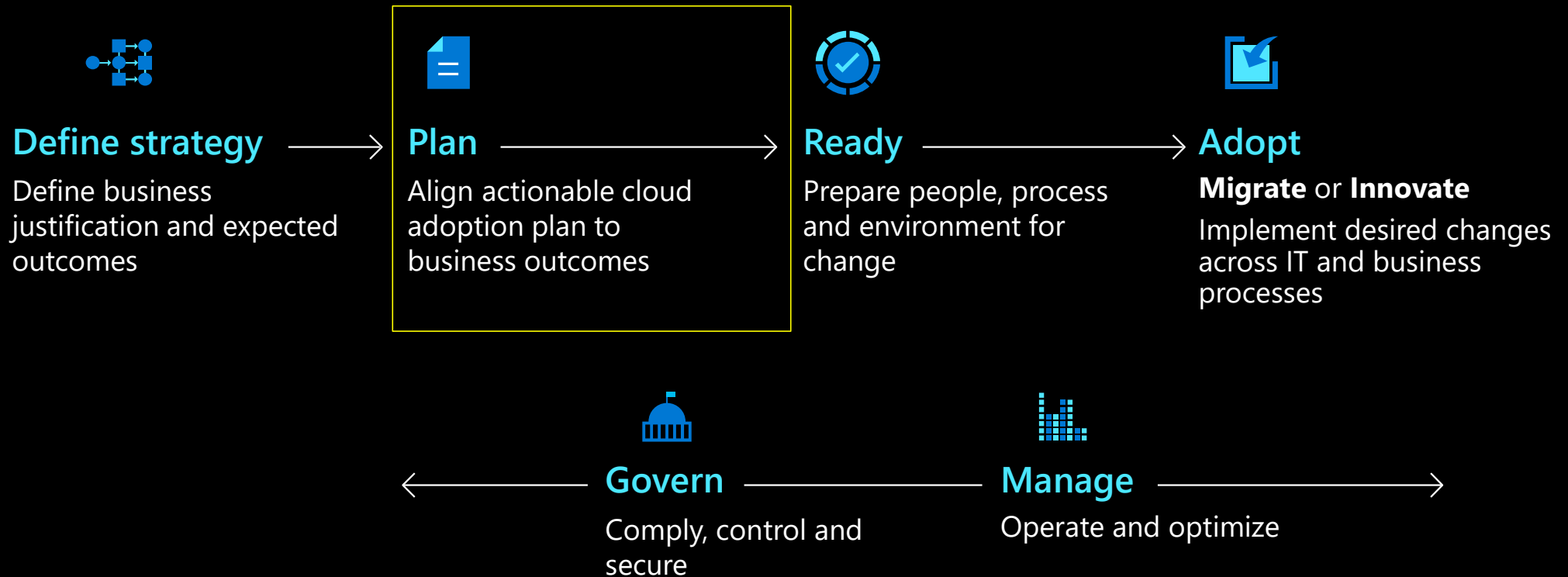
<https://aka.ms/adopt/overview>

Cloud Adoption Framework for Azure: Define a strategy



Microsoft Cloud Adoption Framework for Azure

Proven guidance to accelerate your cloud adoption journey



Rehost



Refactor



Rearchitect



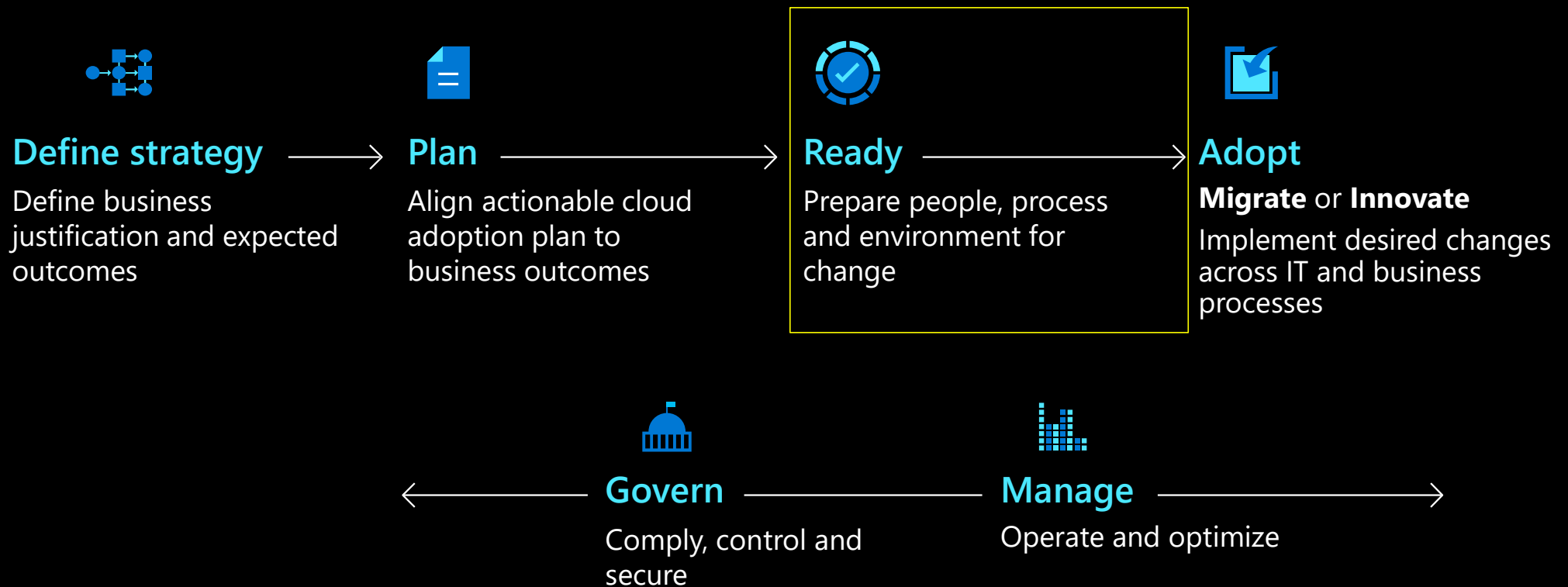
Rebuild/New



Replace

Microsoft Cloud Adoption Framework for Azure

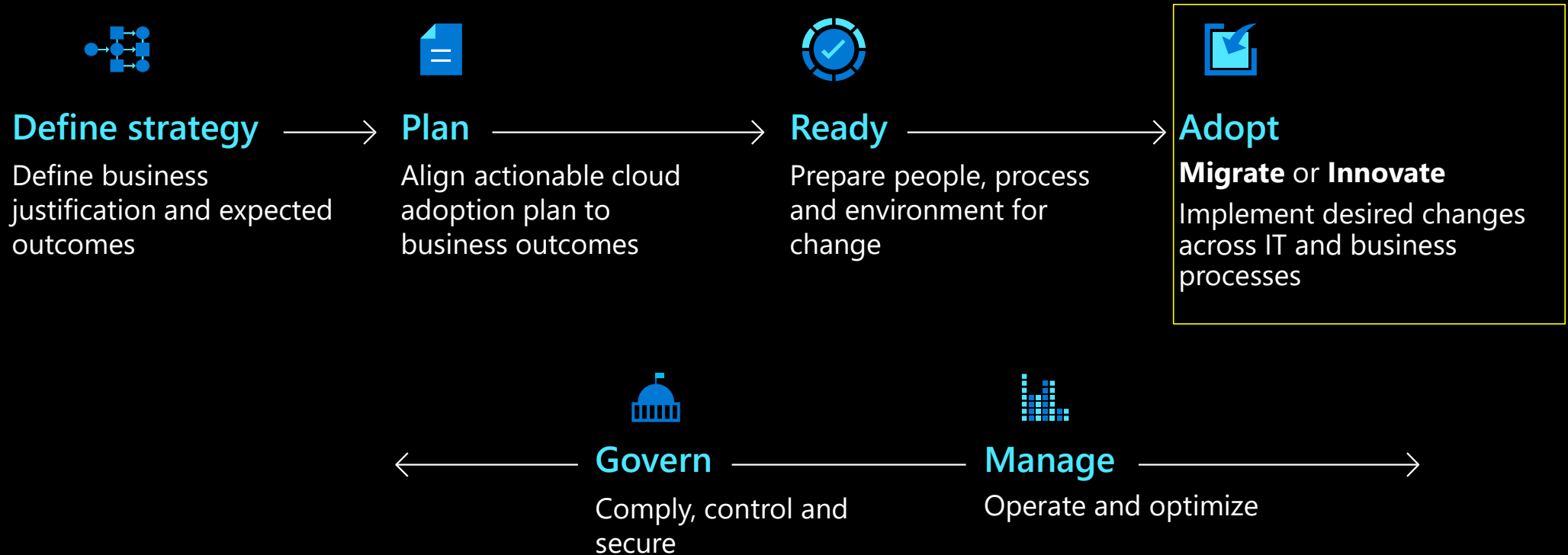
Proven guidance to accelerate your cloud adoption journey



<https://aka.ms/adopt/overview>

Microsoft Cloud Adoption Framework for Azure

Proven guidance to accelerate your cloud adoption journey



<https://aka.ms/adopt/overview>

Microsoft Cloud Adoption Framework for Azure

Proven guidance to accelerate your cloud adoption journey



Define strategy

Define business justification and expected outcomes



Plan

Align actionable cloud adoption plan to business outcomes



Ready

Prepare people, process and environment for change



Adopt

Migrate or Innovate
Implement desired changes across IT and business processes



Govern

Comply, control and secure



Manage

Operate and optimize

<https://aka.ms/adopt/overview>

Five Disciplines of Cloud Governance



Cost Management



Security Baseline



Resource Consistency



Identity Baseline



Deployment Acceleration

Microsoft Cloud Adoption Framework for Azure

Proven guidance to accelerate your cloud adoption journey



Define strategy

Define business justification and expected outcomes



Plan

Align actionable cloud adoption plan to business outcomes



Ready

Prepare people, process and environment for change



Adopt

Migrate or Innovate
Implement desired changes across IT and business processes



Govern

Comply, control and secure



Manage

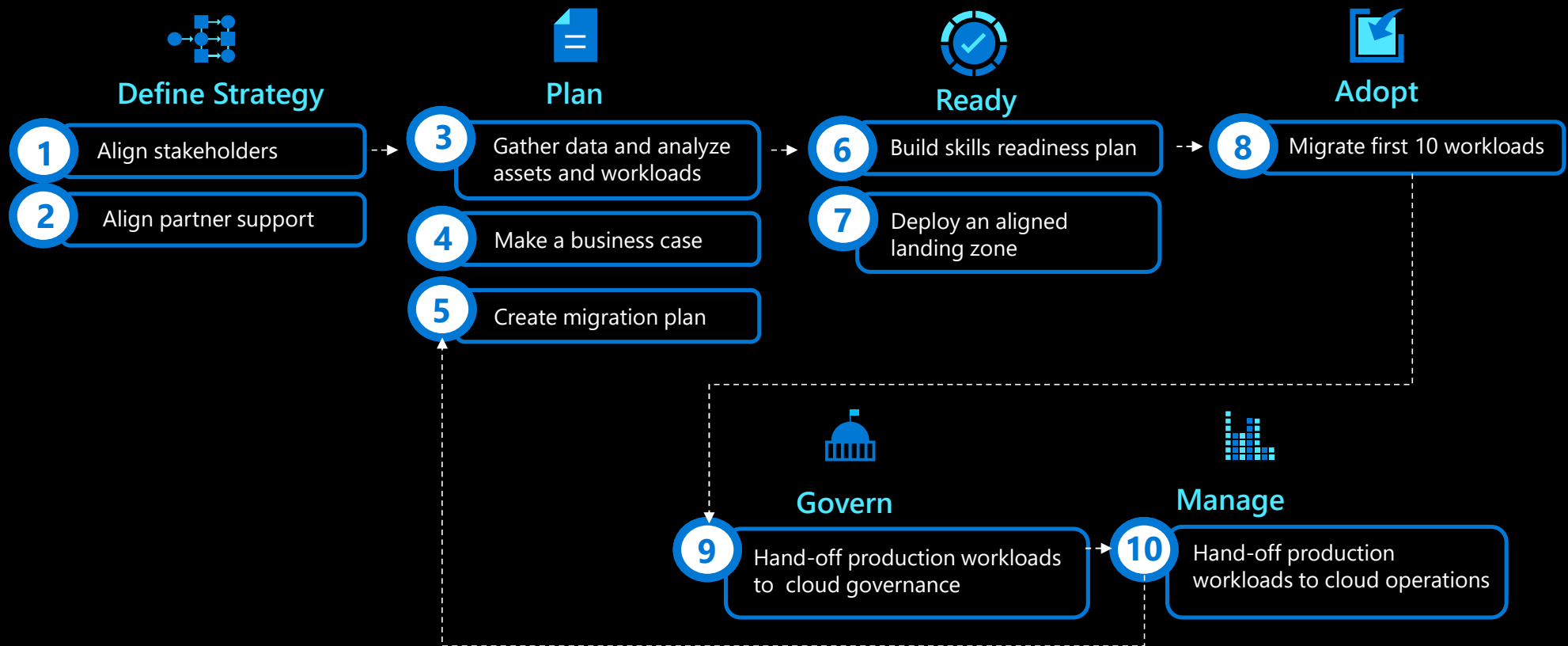
Operate and optimize

<https://aka.ms/adopt/overview>



Overcoming common blockers

Migrate existing workloads to the cloud



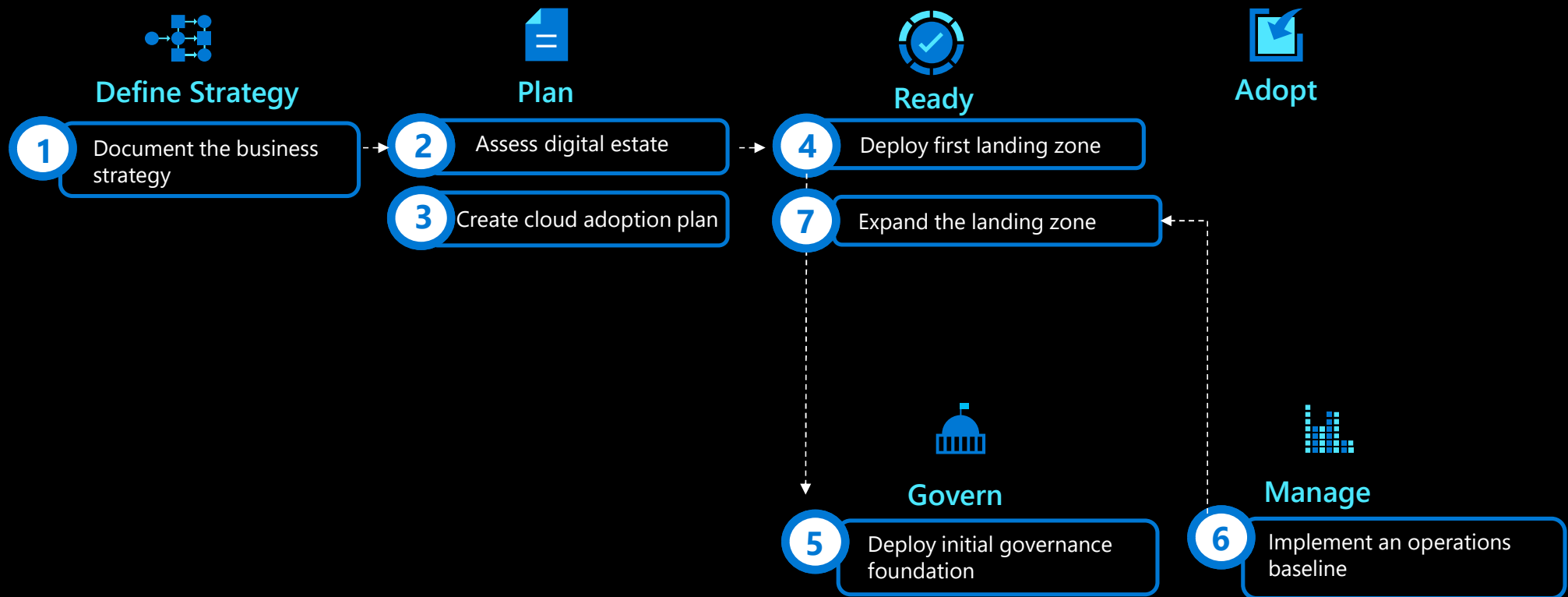
aka.ms/adopt/getstarted-migrate

Build new products and services



aka.ms/adopt/getstarted-buildnew

Unlock environment design and configuration



aka.ms/adopt/getstarted-environment

Find *your path*—get started on your journey

The screenshot shows the Microsoft Azure Cloud Adoption Framework documentation page. The page title is "Get started with the Cloud Adoption Framework" with a date of 05/04/2020 and a reading time of 2 minutes. The left sidebar contains a navigation menu with sections like "Overview", "Foundational alignment", "Accelerate migration", "Build new products and services", "Unblock environment design and configuration", "Deliver operational excellence", "Manage cloud costs", "Secure the enterprise environment", "Improve reliability", "Ensure consistent performance", "Align your organization", "Build a cloud strategy team", "Build a cloud adoption team", "Build a cloud governance team", and "Build a cloud operations team". The main content area features a table with common scenarios and their corresponding guides.

We need to understand the fundamental concepts around cloud adoption	If your journey involves the cloud there are a few initial concepts to understand, and decisions to make.
We want to migrate existing workloads to the cloud	This guide is a great starting point if your primary focus is migrating on-premises workloads to the cloud.
We want to build new products and services in the cloud	This guide can help you prepare to deploy innovative solutions to the cloud.
We are blocked by environment design and configuration	This guide provides a quick approach to designing and configuring your environment.
We need to ensure operational excellence during cloud transformation	The steps in this guide help the strategy team lead the organizational change management required to consistently ensure operational excellence.
We need to manage enterprise costs	Start optimizing enterprise costs and manage cost across the environment.
We need to secure the enterprise cloud environment	This getting started guide can help ensure the proper security requirements have been applied across the enterprise to minimize risk of breach and accelerate recover when breach occurs.
We want to apply the right controls to improve reliability	This getting started guide helps minimize disruptions related to inconsistencies in configuration, resource organization, security baselines, or resource protection policies.
We need to ensure performance across the enterprise	This getting started guide can help you establish processes for maintaining performance across the enterprise.
We want to align our organization	This getting started guide can help you establish an appropriately staffed organizational structure.
We're considering building a cloud strategy team	This guide helps decide if you need a strategy team, and outlines what that team does.

Use the [Get Started Guides](#) as your roadmap through the Cloud Adoption Framework to overcome common blockers



Tools, templates, and assessments

Tools, templates, and assessments

Define strategy

- [Cloud journey tracker](#)
- [Business outcome template](#)

Plan

- [Azure DevOps demo generator](#)
- [Cloud adoption plan template](#)

Ready

- [Azure setup guide](#)
- [Readiness checklist](#)
- [Naming and tagging tracking template](#)
- [Landing zone blueprints](#)

Adopt

- [Strategic migration assessment and readiness tool \(SMART\)](#)
- [Azure migration guide](#)
- [Azure innovation guide](#)

Govern

- [Governance benchmark](#)
- [Governance process template](#)
- [Cost Management process template](#)
- [Deployment acceleration process template](#)
- [Identity process template](#)
- [Resource consistency process template](#)
- [Security baseline process template](#)

Manage

- [Microsoft Azure Well-Architected Review](#)
- [Best practices source code](#)
- [Operations management workbook](#)

<http://aka.ms/adopt>

Cloud Journey Tracker

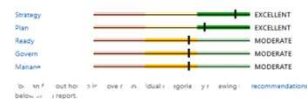
Understanding your cloud adoption journey

Successfully cloud adoption requires a clear understanding of your current state and what business objectives you want to achieve. This report will help you identify your cloud adoption needs based on the questions your assessment survey answers.

Your overall results



Categories that influenced your results



Recommended next steps

Complete Governance Assessment

Governance Assessment will help you identify gaps in your organization across six key domains as defined in the Microsoft Cloud Adoption Framework.

[Take the assessment >](#)

Take Cloud Adoption Framework business value module.

This module covers the basics of how to use the Cloud Adoption Framework - a set of documentation, implementation guidance, best practices, and tools that aid in aligning the strategy for business, people, and technology.

[Start the module >](#)

Leverage Cloud Plan template

The template organizes the decisions and data points that will help align your specific plans for adoption.

[Download the template >](#)

Azure Quick Start Centre

[Home >](#)

Quickstart Center [✕](#)

Microsoft Azure

[Get started](#) [Take an online course](#)

Start a project

Choose from the popular services below to create your first resource and launch your project. [Otherwise, see All services.](#)



Create a web app

Build and deploy web apps that can scale

[Start >](#)



Deploy a virtual machine

Run your workloads in the cloud and reduce the redundancy and maintenance of physical hardware

[Start >](#)



Deploy and run a container-based app

Build and run your container-based applications

[Start >](#)



Store, back up, or archive data

Extend data storage to the cloud and leverage it for disaster recovery

[Start >](#)



Build, deploy, and operate a serverless app

Focus on coding within an event-driven architecture, while Azure handles infrastructure-related

[Start >](#)

[Setup guides](#)



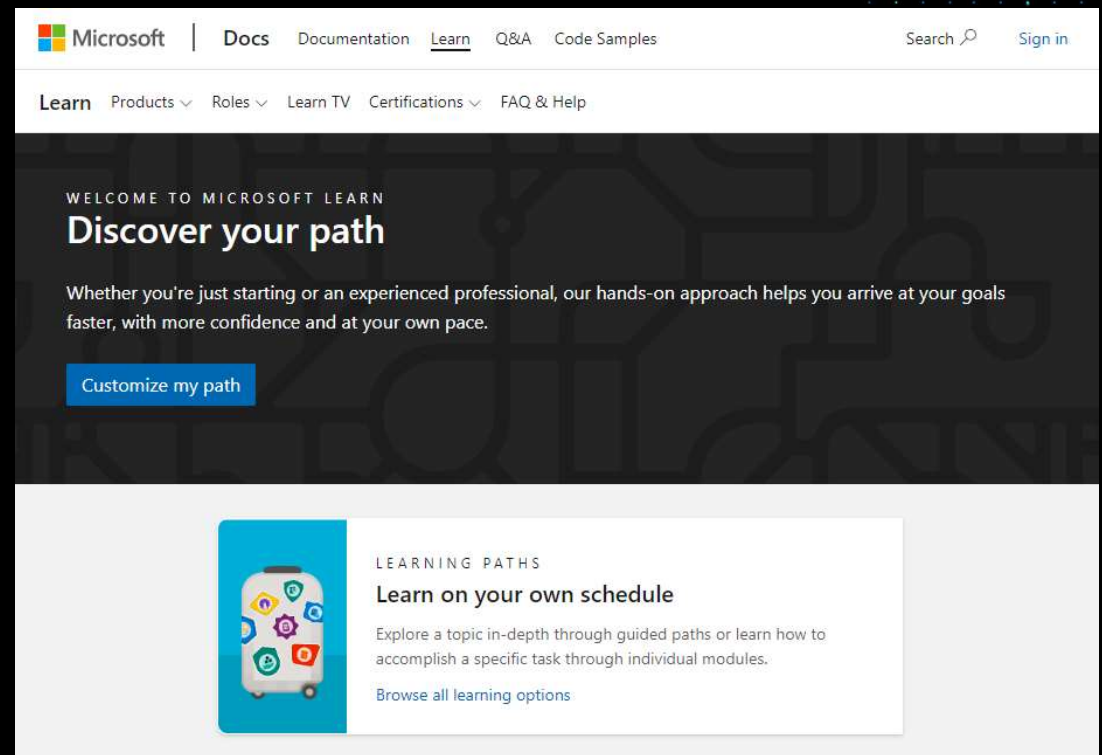
Skills Readiness



Microsoft Learn

- Hundreds of Learning Paths - Completely Free
- Step by Step Tutorials
- Browser based interactive coding environments
- Instructor Led Options

Microsoft.com/learn





Microsoft Partners

Find a Microsoft Partner

Connect with trusted
Microsoft Partners for
expert business and
technical solutions

aka.ms/adopt/findapartner









Microsoft Azure | For Partners

Cloud Adoption Framework for Azure

Browse offers built on the Cloud Adoption Framework from Microsoft Partners

Find offers for your business and technical needs by Cloud Adoption Framework phases

Select business and technical offers from premier Microsoft partners, based on where you are in your digital transformation journey. Offers are aligned to and validated against the guidance in the stages of the Cloud Adoption Framework.

All	 10th Magnitude Azure Cloud Health Check: 2-Week Assessment View	 Accenture/Avanade Ready by Design View	 Applied Information Sciences View	 Brainscale Azure Governance: 2-Day Workshop View
Strategy				
Plan				
Ready				
Migration				
Innovation				
Governance				
Manage				
	 Cloud Direct Cloud Migration: 5-Day Assessment View	 Cloudreach Infrastructure Reliability: 8-Week Implementation View	 Cloudreach Cloud Migration Planning: 10-Week Assessment View	 Cloudreach Cloud Transformation Primer: 5-Day Assessment View

Accelerate your digital transformation journey



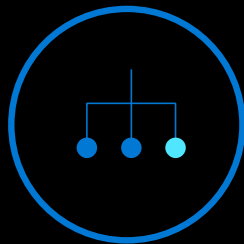
Find a partner
[aka.ms/adopt/
findapartner](https://aka.ms/adopt/findapartner)



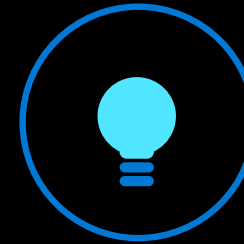
Take an assessment
[aka.ms/adopt/
assess](https://aka.ms/adopt/assess)



Read Documentation
[aka.ms/adopt/
overview](https://aka.ms/adopt/overview)



Find consulting services
Microsoft Consulting Services



Complete learning module
Microsoft Learn

Key next steps and resources



- Cloud Adoption Framework for Azure – aka.ms/adopt
- Microsoft Learn – microsoft.com/learn
- Azure Architecture Centre – aka.ms/architecturecentre
- Foundation Services like Azure Quick start – portal.azure.com



Thank You



Welsh Azure User Group

Azure Enterprise Scale

Chris Whitehead (Microsoft CSA)
chrwh@microsoft.com

10th September 2020

What is Enterprise Scale?



A REFERENCE
ARCHITECTURE – ANSWERS
THE QUESTION:
“HOW DO WE DO LZS AT
SCALE IN AZURE?”



RECOMMENDED PATTERNS
VETTED BY ENGINEERING



ADAPTABLE TO
ACCOMMODATE MANY
REQUIREMENTS



ACCELERATES
ONBOARDING OF NEW
WORKLOADS BY
REMOVING GOVERNANCE
BLOCKERS



CONSISTENT POLICY-BASED
FRAMEWORK



BUILT USING AZURE
NATIVE TOOLING (AZURE
POLICY AND
MANAGEMENT GROUPS)

How does Enterprise Scale relate to Cloud Adoption Framework?



<https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/>

The Eight Critical Design Areas

1. EA Enrolment & AD Tenants
2. Identity & Access Management
3. Management Groups & Subscriptions
4. Networking & Connectivity
5. Management & Monitoring
6. Business Continuity & Disaster Recovery
7. Security, Governance & Compliance
8. Automation & DevOps

Core to Enterprise Scale
(Policy)



Azure Policy in Enterprise Scale Landing Zones

Enforcing organisational standards at-scale



Resource
consistency



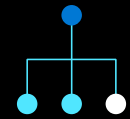
Regulatory
compliance



Security



Cost



Management

Policy Rule

```
"if": {  
  <condition> | <logical operator>  
},  
"then": {  
  "effect": "deny | audit | append | auditIfNotExists | deployIfNotExists | modify"  
}
```

Enterprise Scale deployIfNotExist



Configure new
resources with
diagnostic
settings













Enable Security
Center on new
subscriptions



Configure all VMs
with Azure
Backup

Why deployIfNotExist?

- Embedded into ARM, therefore offers assurance over all deployments regardless of tooling - Portal / PowerShell / Azure CLI / Terraform
- Compliance reporting built-in:

Name	↑↓	Scope	↑↓	Compliance state	↑↓	Resource compliance	↑↓
 ASC Default (subscription: be3ae466-f78a-4...		LogicoreMSDNSub		 Non-compliant		98% (196 out of 201)	<div><div></div></div>
 Deploy-Nsg-FlowLogs		ES		 Non-compliant		91% (10 out of 11)	<div><div></div></div>
 Deploy-Diag-LogAnalytics		ES		 Non-compliant		94% (17 out of 18)	<div><div></div></div>
 Backup-Dev		LogicoreMSDNSub		 Compliant		100% (1 out of 1)	<div><div></div></div>
 Deploy-Diagnostics-ActivityLog		ES		 Compliant		100% (1 out of 1)	<div><div></div></div>

[View all](#)

Key resources

Page	Author	Address
Built-in Azure Policies	Microsoft	https://github.com/Azure/azure-policy/tree/master/built-in-policies
Azure Policy samples	Microsoft	https://github.com/Azure/azure-policy/tree/master/samples
Community Policy Repo	Microsoft	https://github.com/Azure/Community-Policy/
Enterprise-Scale	Microsoft	Many policy definitions and initiatives are created as part of the Enterprise Scale deployment

How Do I Get Started?

- Online Documentation
 - <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/>
- High Level Architecture
 - <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/architecture#high-level-architecture>
- Design Principles
 - <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/design-principles>
- The Eight Critical Design Areas
 - <https://docs.microsoft.com/en-us/azure/cloud-adoption-framework/ready/enterprise-scale/design-guidelines#critical-design-areas>
- GitHub – Deploy ES, Tutorial, Examples, etc.
 - <https://github.com/Azure/Enterprise-Scale>



Thanks.
Questions?

Welsh Azure User Group -Virtual Meet Up-

10th September 2020

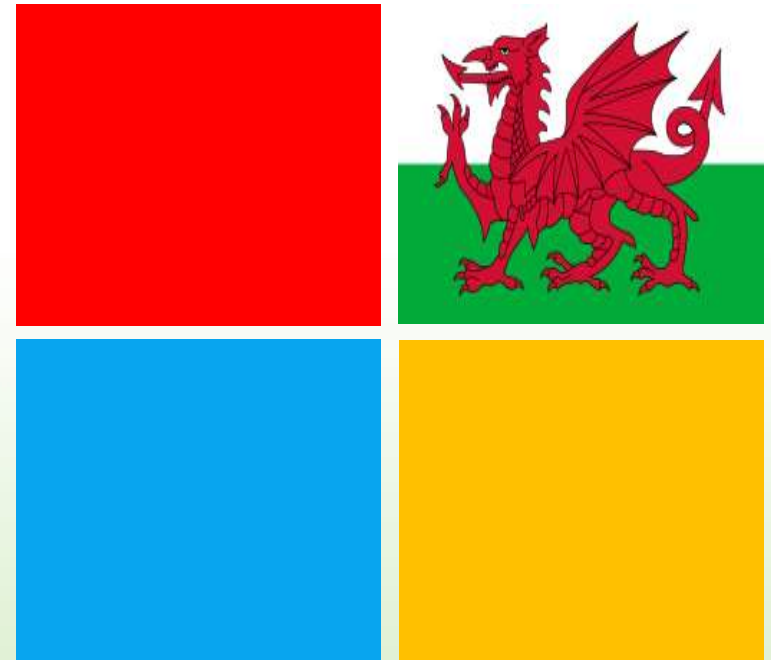
We will be back in:



10:00

Go grab a cuppa ☺

servent



<https://cutt.ly/welshazure>



@welshazure

Follow and tweet along using **#waug**

Welsh Azure User Group -Virtual Meet Up-

10th September 2020

THANK YOU FOR ATTENDING

Please help us grow the community!

Save the Date for the Next Meet Up

12th November 2020 - 6.30pm-8.30pm

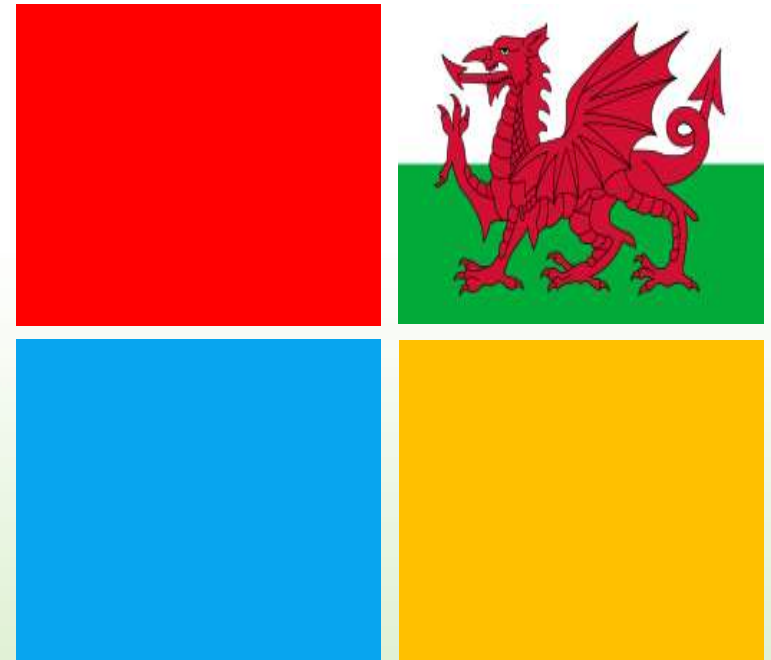


Please complete our
feedback form chance to win:

<https://cutt.ly/waug-feedback>



servent



<https://cutt.ly/welshazure>



@welshazure

Follow and tweet along using **#waug**