

AZURE WELL ARCHITECTED REVIEW SERVICE

Presentation Deck - 2023



BROAD AZURE MARKET EXPERIENCE

OUTCOME BASED SERVICES | CO-CREATION | SKILLS AUGMENTATION | RESOURCE ON DEMAND



Enterprise Azure Landing Zones
Automated Developer onboarding
Cloud Engineering



AzureStack
Migration to Azure vmWare
Azure Well Architected Review



Azure Engineering
DevOps Enablement
Multiple Projects



Azure Landing Zones
Next Gen Firewalls in Azure
Micro Segmentation



Application Migration Assessment
Azure Landing Zone Build
Image Lifecycle Management



Azure Landing Zone
Cloud Migration
Ongoing Support



Azure Landing Zone
CI/CD Pipeline integration with
Managed Services
Configuration Factory



Azure Landing Zone
Management Tooling
CCoE Discussions



Azure FinOps
Azure Subscription management
Secure Azure Landing Zone



Azurestack Deployment
AWS to Azure Migration
Containers PS



Azure Landing Zone
Application Migration Assessment
Digital Health Care Record



Azure Landing Zone
Cloud Migration
Ongoing support



Multi-cloud
Automation
Security
App modernisation
Cloud native platforms
DevSecOps
Devops toolchain
CCOE
FinOps
Observability
Cloud migrations
Landing zones
Cost optimisation
CCOE augmentation
Resource on demand



MICROSOFT ADVANCED SOLUTION PARTNER



Gold Cloud Platform
 Gold Datacenter
 Gold Cloud Productivity
 Gold Enterprise Mobility Management
 Gold Windows and Devices



Advanced Specialization Partner for:
 Windows Server and SQL Server
 Migration to Microsoft Azure



Cloud Adoption Framework for Azure
 CAF Ready Partner



Infrastructure
 Azure



Data & AI
 Azure



Modern Work



Microsoft Cloud



Digital & App Innovation
 Azure



Business Applications



Security

Specialist
 Infra and Database Migration

Specialist
 Infra and Database Migration

Specialist
 Meetings and Meeting Rooms
 for Microsoft Teams

<p>300+ UK Consultants</p>	<p>Best Practice and Secure Design</p>	<p>Enterprise Customer Experience and Case Studies</p>
<p>200+ Technology Partner Ecosystem</p>	<p>AMPP Accelerated Partner Funding</p>	<p>Independent Architectural Advice</p>



AZURE WELL-ARCHITECTED REVIEW SERVICE

FIVE FRAMEWORK PILLARS



COST OPTIMISATION



- Keep within the cost constraints by planning and estimating Azure Costs
- Aim for scalable costs by provisioning Resources with optimisation in mind
- Select the right Resources with the right SKUs to maximise efficiency of Cloud Spend
- Use Monitoring and Analytics to gain cost insights



- How do you ensure that cloud resources are appropriately provisioned?
- How is your organisation modelling cloud costs?
- How do you manage the storage footprint of your digital assets?
- How are you monitoring your costs?
- [...]



OPERATIONAL EXCELLENCE



- Design, Build and Orchestrate with modern practices and inter-team collaboration
- Use Monitoring and Analytics to gain operational insights
- Use Automation industrialise operational lifecycles and operational metadata
- Rehearse recovery and practice failure, embrace operational improvement



- How are you monitoring your resources?
- How do you interpret the collected data to inform about application health?
- How do you visualise workload data and then alert relevant teams when issues occur?
- How are you using Azure platform notifications and updates?
- [...]



PERFORMANCE EFFICIENCY



- Use Scaling Up and Scaling Out strategies to optimise performance efficiency
- Continuously monitor the application and the supporting infrastructure to:
 - Optimise Network and Storage Performance
 - Identify Bottlenecks



- How are you designing your workload to scale?
- How are you thinking about performance?
- How are you handling user load?
- How are you ensuring you have sufficient capacity?
- [...]



RELIABILITY



- Build Highly Available architecture by designing applications to be resistant to failures
- Define and Test availability and recovery targets
- Ensure required capacity and services are available in targeted regions
- Plan for Disaster Recovery and Protect Data with Backup and Restore



- What reliability targets and metrics have you defined for your application?
- How have you ensured that your application architecture is resilient to failures?
- How have you ensured required capacity and services are available in targeted regions?
- How are you handling disaster recovery for this workload?
- [...]



SECURITY



- Assume a Zero Trust security model and create a strategy of Defence in Depth
- Manage Infrastructure Protection using MFS, RBAC and PIM
- Create a layered approach to Network Security to protect data and applications
- Perform Application operational security assessments to protect data and manage secrets



- What design considerations did you make in your workload in regards to security?
- What considerations for compliance and governance do you need to take?
- How are you managing encryption for this workload?
- How are you managing identity for this workload?
- [...]



AZURE WELL-ARCHITECTED REVIEW SERVICE

SECURITY



- Assume a Zero Trust security model and create a strategy of Defence in Depth
- Manage Infrastructure Protection using MFS, RBAC and PIM
- Create a layered approach to Network Security to protect data and applications
- Perform Application operational security assessments to protect data and manage secrets



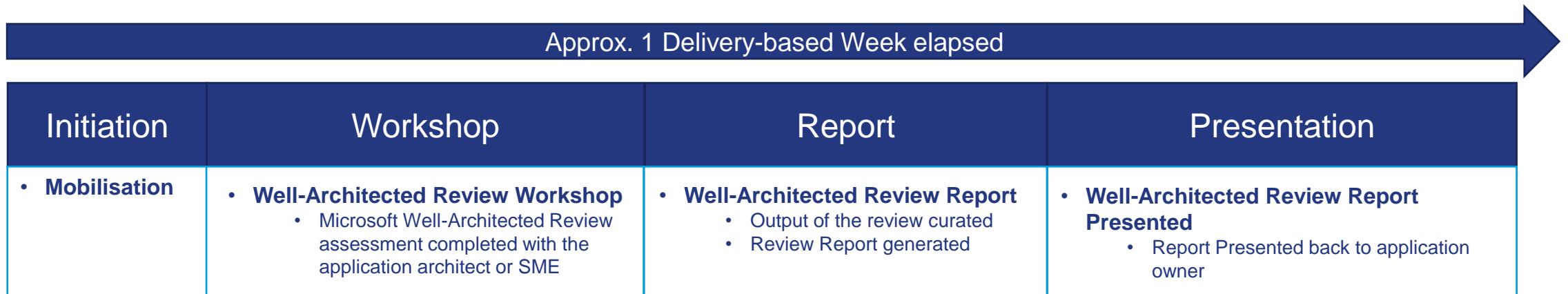
- What design considerations did you make in your workload in regards to security?
- What considerations for compliance and governance do you need to take?
- How are you managing encryption for this workload?
- How are you managing identity for this workload?
- [...]

AZURE WELL-ARCHITECTED REVIEW SERVICE DETAILS



TIMELINE

Below is an estimated timeline for delivery which is achievable provided the pre-requisites are met.



DELIVERABLES

The following are deliverables of this service:

- Well-Architected Review Workshop
- Well-Architected Review Report document (with specific framework pillars identified for focus)
- Well-Architected Review presentation with:
 - Recommended actions
 - Possible next steps



APPROXIMATE SERVICE COST

Professional Services Estimate		
Project Phase	Lower Range	Upper Range
Initiation and Workshop	£2,000	£3,000
Report	£3,000	£4,000
Presentation	£2,000	£3,000
TOTAL	£7,000	£10,000

Resource Effort (Days)		
TA	PC	Con
1.5		
2.0		
1.5		
5.0		



AZURE CASE STUDIES



AZURE CASE STUDY

SAVED £500k, OPTIMISED, SECURED AND GOVERNED

A large aerospace engineering firm required help to meet strict compliance standards, manage Azure costs and improve efficiencies with better cloud governance across their 200+ Azure subscriptions.

Computacenter delivered the following benefits:



Security

- Introduced a simple secure approach to applying RBAC. Fulfilled least privileged access methodology by using Privileged Access Management.



Compliance

- Implemented an automated auditing service to check compliance against strict standards, lock down security breaches and manage network connectivity



Saved £500k per year

- Reduced monthly Azure costs through automated optimisation, improved governance and increased accountability.



From 3 days to 1 hour

- Accelerated deployment time of fully-compliant Azure subscriptions using Azure policies, blueprints and Infrastructure as Code.



DevOps

- Introduced new working practices to leverage Azure DevOps pipelines, Azure policies, blueprints and tagging to deliver a consistent, compliant and well governed environment

AZURE CASE STUDY

CLOSED THE DATACENTERS AND MOVED TO AZURE

Financial Services firm had a requirement to exit 2 datacentres, transforming their on-premises IaaS approach to leverage PaaS and SaaS from Microsoft Azure.

Computacenter delivered the following benefits:



Landing Zone

- Designed and implemented a new Azure landing zone to host production workloads.



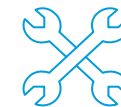
SQL PaaS

- Migrated SQL workloads from on-premises clusters to Azure SQL PaaS



Office 365

- Migrated on-premises mailboxes into O365. Configured SharePoint Online enabling the retirement of large on-premises storage arrays



InTune

- Decommissioned all hardware from the datacentres upon project completion.
- Configured Intune to manage new Windows 10 devices.

AZURE CASE STUDY

COST OPTIMISATION SAVES £250K PER YEAR

Investment and payment services organisation engaged Computacenter to review their existing Azure subscriptions to provide advice on cost optimisation for their IaaS workloads.

Computacenter delivered the following benefits:



Reserved Instances

- Identified how Reserved Instances and Hybrid Benefit could be introduced to reduce annual spend by £250k



Best Practices

- Shared best practices on how to reduce or manage on-going costs through use of automation and size optimisation techniques



Reporting

- Provided a report to show exactly which workloads could benefit from reserved instances



Governance

- Recommended a tagging strategy to ensure ongoing accountability and reporting for cloud spend

AZURE CASE STUDY

AUTOMATED GLOBAL DEPLOYMENT OF NEXT GENERATION FIREWALLS

A British multinational consumer goods company needed a scalable solution to secure and manage access to their public facing application workloads in Azure.

Computacenter designed and implemented a solution using Palo Alto VM series firewalls and Azure Scale Sets with Infrastructure as Code for a repeatable solution.



Consulting

- Architects skilled in Azure and Palo Alto captured the requirements and designed a solution



Build

- Developed an automated build solution using Infrastructure as Code from ARM templates
- Leveraged Azure Scale sets to automate the scaling of the solution



Implementation

- Deployed across multiple Azure regions
- Used Panorama to apply firewall configuration



Scale Testing

- Automated load testing to demonstrate scaling capabilities of solution