



Delivery Obsessed®

G-Cloud 13 Service Definition

Secure Cloud Build & Migration

Aker Systems enables the secure, fast and efficient flow of data in the Public Cloud when exceptional **security** and/or **performance** are required



Service Overview

Aker provides services for **designing** and **building** secure, scalable and cost-efficient environments in the public cloud (AWS, Azure, Google) to UK-OFFICIAL SENSITIVE, including UK-OFFICIAL HIGH.

Expert Security Cleared (DV/SC) **DevOps** engineers accelerate the **migration** of applications using build **automation**, best practice & NCSC principles to ensure delivery **agility, speed & reliability** at reduced **cost** and **compliance** risk.



Plan



Outcomes

- Milestone Plan
- Migration Strategy

- Our cloud architects and engineers run targeted workshops to understand your objectives and timescales, business value drivers, and optimal cloud operating model
- Our DevOps and quality assurance engineers work with you to find the optimal application migration strategy aligned to your cloud goals and objectives
- Our agile project managers will agree a high-level milestone plan to ensure all assumptions, dependencies and key acceptance criteria are understood



Design



Outcomes

- High-Level Design
- Security Assurance
- Delivery Plan

- Our reference cloud architectures are used to accelerate the high-level design of the target cloud environment, ensuring all design-impacting factors are understood
- Our cloud security specialists review the security and compliance assurance/approvals processes required for new services, and governance requirements
- We map your requirements for availability, scalability, timescales and budget to the most appropriate reference cloud architecture to rapidly inform the delivery plan



Build



Outcomes

- CI/CD Capability
- Cloud Environments
- DevOps RunBooks

- Our DevOps engineers setup security-enabled CI/CD pipelines from the start, ensuring automation, security and cost efficiency are central to all services
- Our delivery team builds out the Dev/Test and eventually Production environments, ensuring that the build is compliant with security and architecture standards
- We provide knowledge transfer to cloud operations and support services using a combination of workshops and DevOps RunBooks



Migrate



Outcomes

- Migration Plan
- Testing Strategy
- Handover Approach

- Informed by the migration strategy, we deliver a migration plan at the start of a project to ensure all stakeholders are informed and dependancies are met
- We focus on critical services first and ensure dependancies are mapped outwards to reduce risk
- We automate the migration of each application and data to ensure speed, repeatability and consistency

Service Features & Capabilities

Aker's **Secure Cloud & Migration** has the following key features and capabilities, proven through many successful projects in the public and private sectors.

■ Full lifecycle automation

- Built-in automation across the entire system development lifecycle using Infrastructure-as-Code (e.g. Terraform/Ansible) and CI/CD pipelines (e.g. Jenkins/Drone)
- Secure, repeatable and immutable infrastructure reduces costs to manage & scale
- Minimal manual production access significantly reduces human error risks
- Enables customers to build and deploy faster and at much lower cost

■ Security first

- Zero Trust security architecture with micro-segmentation and least-privilege RBAC model
- Advanced security using NCSC principles for operating sensitive data
- Security-enabled CI/CD pipelines with built-in automated security testing
- Automated security monitoring, alerting and auditing capabilities with CSOC integration for security and compliance (e.g. GDPR)

■ Enterprise class service

- Designed and built as an enterprise class platform with an extensible, layered architecture
- Meets the strictest data compliance legislation, including cross-jurisdictional data sharing
- Highly automated & resilient to support business-critical use cases
- Massively scalable across people, process, data and technology

■ Component and integration patterns

- Components are cloud services, optimised for security, performance and cost
- Integration patterns are the optimised configuration of collections of components
- Optimised using a combination of native PaaS, SaaS and serverless services
- Assured security and performance with cost efficiency and predictability from pre-configured components and integration patterns

■ Cloud agnostic and interoperable

- Cloud (AWS/Azure/Google) and service agnostic (IaaS/PaaS/SaaS)
- Microservices architecture and Cloud-native engineering using containerisation technologies (Docker/Kubernetes)
- Enables the rapid addition of new capabilities and functionality, still with consistent secure foundations, infrastructure deployment patterns and architectures

■ Accelerated migrations

- Accelerated migration of applications using build automation, best practice
- Multiple application migration strategies;
 - **Re-Hosting** - from a physical server to a cloud VM
 - **Re-Platforming** - to a comparable cloud service
 - **Re-Designing** - to transform and optimise for running as cloud native service

Service Benefits

Aker's **Secure Cloud & Migration** has the following key benefits, when combined, provide a truly compelling offering for clients.



- Proven track record in delivering secure UK government services
- Delivery certainty through precise planning and risk management
- Early and incremental delivery of benefit through agile approach
- Build and migration times reduced through automation
- Secure by design, supporting enhanced governance and stringent compliance
- Migration approach ensures no service interruption
- Lower TCO through evergreening and continual improvement
- All security-cleared, full-stack cloud architecture and engineering teams
- Experienced in Government Digital Services (GDS) delivery
- Collaborative approach and flexible & innovative commercial models

About Aker Systems

Aker Systems enables the secure, fast and efficient flow of data in the Public Cloud when exceptional security and/or performance are required.

We have experienced, security cleared, subject matter experts who are dedicated to creating highly secure and performant solutions for our customers. Innovative accelerated delivery and DevSecOps approaches to ensure the highest level of knowledge and support for bespoke applications.

■ Proven cloud expertise



- Our expertise and heritage is ultra-secure, large-scale public cloud environments for public and private clients
- Proven delivery track record in cloud solutions with enhanced security, performance and cost-efficiency

■ Enterprise data enablement



- Aker specialises in moving and operating sensitive data sets to the public Cloud with increased performance, enhanced security, scalability and efficiency
- We build and operate solutions that enable the ingestion, unification and serving of data across the enterprise

■ Business outcomes focussed



- We are not a consultancy. We are Delivery Obsessed® - our teams have an unwavering commitment to delivering results and are fully focussed on business outcomes
- We automate everything we do to help clients maximise the cost savings and value potential of the cloud

■ Continual optimisation



- We continually optimise/evergreen components and cloud services for improved security, performance and cost
- Aker-built cloud & data environments can rapidly adapt to technical, business and regulatory changes



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