



BLACKSTONE&

G-Cloud 15 | Lot 3 – Cloud Support Services

Cloud Architecture & Technical Design

Service Description

Cloud architecture and technical design services creating scalable, secure, cost-effective solutions across AWS, Azure, and Google Cloud. We deliver reference architectures, solution designs, security frameworks, and migration strategies—ensuring organisations build cloud-native systems aligned to government standards, Well-Architected frameworks, and enterprise integration requirements.

Service Overview

The Cloud Architecture & Technical Design service helps organisations make sound architectural decisions that enable successful cloud adoption and digital service delivery.

Good architecture enables; poor architecture constrains. The decisions made about how systems are structured, how they communicate, how they handle failure, and how they scale have profound implications for delivery speed, operational cost, and future flexibility. Yet many organisations lack the cloud-specific architectural expertise needed to make these decisions confidently.

Our service provides access to experienced cloud architects who combine deep technical knowledge with practical delivery experience:

Multi-Cloud Expertise: We bring expertise across AWS, Azure, and Google Cloud, enabling us to recommend approaches appropriate to your strategic context rather than defaulting to a single vendor perspective.

Well-Architected Reviews: We apply cloud provider Well-Architected frameworks to assess existing architectures and design new ones, ensuring alignment with industry-proven practices.

Security Architecture: Security is architectural, not an afterthought. We design security architectures aligned to NCSC cloud security principles and government security requirements.

Reference Architectures: We develop reusable reference architectures for common patterns, accelerating delivery while ensuring consistency across services.

Migration Architecture: Moving to cloud requires careful architectural planning. We design migration approaches that minimise risk while setting foundations for cloud-native operation.

Service Features

- Multi-cloud architecture: AWS, Azure, Google Cloud Platform design
- Well-Architected Framework reviews and remediation planning
- Reference architecture development for common government patterns
- Security architecture aligned to NCSC Cloud Security Principles
- High availability, disaster recovery, and resilience design
- Cost optimisation and FinOps architecture recommendations
- Integration architecture: APIs, event-driven, and hybrid patterns
- Data architecture including lakes, warehouses, and mesh patterns
- Landing zone design and cloud foundation architecture
- Architecture governance frameworks and decision documentation

Service Benefits

- Reduced technical risk through proven architectural patterns
- Optimised cloud costs through right-sized, efficient designs
- Security by design meeting government compliance requirements
- Scalable foundations supporting future growth and change
- Faster delivery through reusable reference architectures
- Informed decisions through structured options analysis
- Reduced vendor lock-in through cloud-agnostic design principles
- Resilient systems with built-in high availability
- Clear documentation enabling consistent implementation
- Internal architecture capability through knowledge transfer

Available through G-Cloud 15 Framework | Lot 3 – Cloud Support Services