



Colibri
Digital

G-CLOUD 15 SERVICE DEFINITION
AWS LAKEHOUSE DATA PLATFORM
ADVISORY & ARCHITECTURE

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1. Service Overview

Supplier Name	GCI NETWORK SOLUTIONS LIMITED
Service Branding	Colibri Digital
Framework	G-Cloud 15 (RM1557.15)
Service Type	Lot 3: Cloud Support

Colibri Digital's AWS Lakehouse Data Platform Advisory and Architecture service defines a scalable, modern data platform approach on AWS tailored for analytics and AI. We help UK public sector organisations move beyond legacy silos by designing a unified "Lakehouse" architecture that combines the cost-effectiveness of a data lake with the high performance and governance of a data warehouse.

This strategic advisory service produces a comprehensive target architecture, governance framework, and data management patterns, incorporating critical security and UK GDPR considerations. The engagement concludes with a prioritised delivery backlog and a clear implementation roadmap, providing the design decisions necessary to transition confidently from discovery to a production-ready build.

NOTE: This is a Lot 3 professional services advisory engagement covering assessment and architecture design activities. It excludes platform build, migrations, and ongoing managed operations (no 24/7, SLAs, or service desk).

Key technical components of the delivery include:

Target Architecture Design	Definition of a future-proof AWS Lakehouse state using services such as Amazon S3, AWS Glue, Amazon Redshift and Databricks
Governance & Security Framework	Design of fine-grained access controls, data lineage, and auditing patterns aligned with UK GDPR and NCSC principles
Data Management Patterns	Definition of standard ingestion, transformation (Medallion architecture), and storage patterns for batch and streaming data.
Security & Identity Integration	Architectural mapping for AWS IAM and KMS is designed to support OFFICIAL-SENSITIVE requirements, subject to buyer assurance/accreditation and agreed controls.
Delivery Roadmap & Backlog	Creation of a structured, iterative implementation plan, including technical debt analysis and success criteria
Tooling & Integration Strategy	Assessment of downstream analytics and AI integration to ensure end-to-end value.

Core Public Sector use cases would include:

Modernising Legacy Data Estates	Creating a roadmap to transition from fragmented on-premises databases to a unified, scalable AWS Lakehouse.
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UK GDPR & Sovereign Governance	Designing data management patterns intended to support UK GDPR compliance and UK data residency requirements, subject to buyer policies and controls.
Secure Inter-Departmental Sharing	Developing the architectural foundations for secure, governed data exchange between government entities.
AI & Machine Learning Readiness	Architecting data platforms to support advanced predictive policy modelling and data science workloads.
Operational Resilience Planning	Ensuring the target data platform architecture is high-availability and disaster-recovery ready by design.

2. Features & Benefits

The following table outlines the core technical features of the assessment and the specific value outcomes they provide to public sector organisations.

Technical Features	Benefits
Expert Architectural Design	Strategic Clarity: Provides a clear, vendor-neutral roadmap for maximum ROI and reduced technical debt.
NCSC-Aligned Security	Secure-by-Design: Built-in security and governance simplify the process for Senior Information Risk Owners (SIROs).
Iterative Delivery Roadmap	Consistency & Speed: Enables phased implementation that delivers value quickly while managing delivery risk.
Medallion Data Strategy	Operational Excellence: Establishes reusable templates (Bronze/Silver/Gold) to standardise data engineering across teams.
Comprehensive Documentation	Knowledge Sovereignty: Full handover of design decisions and architectural artefacts ensures no supplier lock-in.

3. Technical Requirements

The implementation is delivered in line with the GDS Service Standard, applying an iterative four-phase model:

The service is delivered by SC-cleared consultants, if required, using a hybrid model of remote and on-site support.

Discovery	Deep-dive analysis of existing data architecture, technical debt, and organisational constraints
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Architecture Design	Iterative development of the target state, including security guardrails and data management patterns.
Governance Mapping	Definition of Unity Catalogue or Lake Formation structures to support multi-departmental use cases.
Roadmap Finalisation	Delivery of the implementation backlog.

4. Security & Quality Assurance

As an AWS Premier Partner with the Government Consulting Competency, Colibri Digital ensures all assessments meet the highest security standards.

Secure Development:	All project staff are SC-cleared (or clearable) consultants who can be provided, subject to availability and buyer requirements.
Data Handling	All assessment data is stored securely in the UK AWS Region and handled in strict accordance with GDPR and Data Protection Act 2018 standards.
Standards	Our delivery workflows are to meet rigorous government and industry security benchmarks.

5. Support & Service Levels

This is a Lot 3 professional services advisory engagement covering assessment and architecture design activities. It excludes platform build, migrations, and ongoing managed operations (no 24/7, SLAs, or service desk).

6. Constraints

The following constraints apply to the AWS Lakehouse Data Platform Advisory and Architecture service to ensure transparency and prevent disputes:

Professional Services Scope	This is a Lot 3 Cloud Support offering; it does not include ongoing AWS consumption costs or third-party licences
Data Source Accessibility	The feasibility of automated ingestion is dependent on the availability and connectivity of legacy data systems.

7. Onboarding & Offboarding

Onboarding

Scheduled following call-off, subject to buyer availability and mobilisation dependencies.

Offboarding & Exit

At completion, we hand over agreed deliverables and confirm secure return/deletion of buyer-provided data in line with agreed handling procedures.

Data Portability

All documentation is provided in open formats (PDF).

Knowledge Handover

All documentation is handed over in open formats (PDF) to ensure operational independence.