Colibri Digital

G-Cloud 15 Service Definition

Databricks Lakehouse Data Platform

Advisory & Architecture on AWS

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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 Databricks Lakehouse Data Platform Advisory and Architecture on AWS service defines a scalable data platform approach using Databricks on AWS for analytics and AI. We help UK public sector organisations design a unified lakehouse architecture that combines data lake economics with warehouse performance and governance.

The engagement focuses on workshops and current-state assessment to capture use cases, data sources, constraints and security requirements. Outputs include target-state architecture diagrams, governance and security recommendations (for example Unity Catalog), and a prioritised roadmap and backlog.

Where required, we document integration patterns for ingestion and processing, and interoperability with AWS services (for example Amazon S3, IAM and KMS) and existing enterprise tooling. Recommendations are tailored to the buyer's delivery model and assurance approach.

This is a time-bound professional services engagement covering discovery, advisory and architecture design. It does not include full platform build, workload migration, or ongoing managed operations unless separately contracted.

Target architecture design	Define a target Databricks lakehouse architecture on AWS, including workspace topology, network integration and core platform components.
Governance and security framework	Design governance and security approach aligned to buyer requirements, including Unity Catalog strategy, access controls, data classification, lineage and auditing considerations.
Data management patterns	Define standard ingestion, processing and storage patterns for batch and streaming data on Databricks, including medallion architecture, quality controls and data lifecycle considerations.
Security and identity integration	Define identity, access and encryption approach integrating Databricks with AWS IAM and KMS and the buyer identity provider, designed to support regulated workloads subject to buyer assurance and agreed controls.
Delivery roadmap and backlog	Create a phased roadmap and prioritised backlog for subsequent build and migration activities, including dependencies, risks and key decisions.
Tooling and integration strategy	Document integration considerations for BI, analytics and AI/ML, and alignment with buyer technology choices, to support end-to-end value.

Core Public Sector use cases would include:

Modernising Legacy Data Estates	Creating a roadmap to transition from fragmented data platforms to a Databricks lakehouse on AWS, including key architecture decisions and prerequisites.
UK GDPR and UK data residency governance	Designing governance and data management patterns to support UK GDPR and data residency objectives, subject to buyer policies, configuration choices and assurance processes.
Lakehouse reference architecture and patterns	Defining a target-state Databricks lakehouse architecture on AWS, including workspace topology, governance approach, ingestion and processing patterns, and integration considerations.
Migration and delivery road-mapping	Producing a phased roadmap and prioritised backlog for subsequent platform build and workload onboarding, including dependencies, risks and sequencing.
AI and data readiness	Assessing data readiness for advanced analytics and AI use cases on Databricks, and documenting constraints, governance considerations and next steps.
Business continuity and resilience	Capturing resilience objectives and advising on architecture options for backup, restore and high availability, without committing to numeric RTO/RPO targets in this SD.

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
Databricks lakehouse reference architecture on AWS	**Clear target state and design decisions for delivery teams**
Governance and security design using Unity Catalog	**Supports controlled access and auditability for assurance activities**
Ingestion and processing pattern definitions	**Reusable patterns reduce delivery risk and rework**
Integration architecture for AWS and enterprise services	**Reduces integration ambiguity and accelerates later implementation**
Implementation roadmap and prioritised backlog	**Provides a practical mobilisation plan and clear next steps**

3. Technical Requirements

Delivery is typically remote and delivered through workshops, analysis and collaborative design sessions. Outputs are provided as documents and diagrams, and can be adapted to buyer templates where available.

Where practical, we can use buyer-provided AWS and Databricks environments to validate assumptions. Access, tooling and working practices are agreed at call-off and remain subject to buyer security policies.

Discovery	Workshops and current-state assessment of data landscape and requirements.
Architecture Design	Options appraisal and definition of target Databricks lakehouse architecture on AWS.
Governance Mapping	Detailed design patterns, integration approach, and roadmap/backlog definition.
Roadmap Finalisation	Handover of architecture blueprint pack, decisions log and next steps.

4. Security & Quality Assurance

Colibri Digital applies documented security and quality assurance controls throughout delivery. We can map architecture recommendations to the NCSC Cloud Security Principles and relevant buyer standards; assurance and accreditation decisions remain with the buyer.

Secure Delivery:	We apply documented security and quality controls during delivery, including least-privilege access, secure collaboration and controlled handling of buyer data, in line with buyer policies.
Data Handling & Residency:	Where buyer data is processed or stored during the engagement, it is handled in accordance with buyer instructions and stored in the UK by default (for example AWS London), unless otherwise agreed.
Supply Chain Security:	We use AWS and Databricks as primary platform providers. Any third-party tools or services are agreed at call-off and managed through Colibri Digital's supplier risk processes.

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 Databricks Lakehouse Data Platform Advisory and Architecture on AWS service captures resilience and recovery requirements (including RTO/RPO expectations) and advises on architectural options for backup, restore and high availability, where in scope.

No numeric recovery targets or service levels are committed in this Service Definition. Operational execution of backups, restores and disaster recovery remains the buyer's responsibility unless separately contracted.

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

Kick-off is scheduled at the start of the call-off, subject to buyer availability.

Delivery approach, governance, collaboration tooling and initiation artefacts (for example a Project Initiation Document) are agreed with the buyer. We can work within buyer-provided tooling where required.
Offboarding includes knowledge transfer and handover of deliverables. Any follow-on build or migration work is out of scope unless agreed under a separate engagement.

Offboarding & Exit

At completion, we hand over agreed deliverables and confirm secure return/deletion of buyer-provided data in line with agreed handling procedures.
Colibri Digital provides services primarily remotely during UK working hours. If required, personnel cleared to Security Clearance (SC) can be provided subject to availability and buyer requirements.

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.