the SERVER LABS

cloud architects

The Server Labs G-Cloud 15 Service Description

G-Cloud 15 Service Definition – Regulatory Software and Compliance

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Regulatory & Compliance Alignment Assessment for AWS

Overview

The Server Labs helps organisations operating in regulated environments translate regulatory obligations into clear architectural requirements for AWS platforms.

This assessment provides a structured, engineering-led view of how regulations such as GDPR, DSPT, ISO 27001, and sector-specific frameworks are currently reflected in platform design, data handling, and control placement — and where architectural gaps introduce real compliance risk.

Benefits

- Clarifies regulatory obligations in technical terms
- Identifies architectural compliance and sovereignty risks
- Aligns IG, security, and platform teams early
- Reduces reliance on manual or procedural controls
- Accelerates delivery in regulated environments

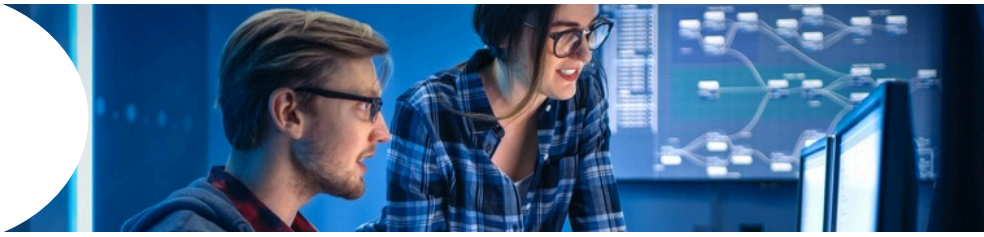
What this service provides

Regulatory compliance fails most often at the architecture layer, not the policy layer.

This service assesses how regulatory and sovereignty requirements are currently implemented across the AWS environment, focusing on data residency, access control, encryption, auditability, and control enforceability. Rather than interpreting regulation or providing legal advice, the assessment translates obligations into concrete technical control domains that can be designed, automated, and validated.

The work includes data flow analysis to identify cross-border transfer risk, review of encryption and key management models, examination of IAM boundaries and privilege models, and assessment of how evidence is currently produced. Particular attention is paid to areas where compliance depends on manual process, undocumented assumptions, or implicit trust.

The outcome is a defensible, technically grounded baseline that informs subsequent blueprinting and implementation work.



Who is this for

This service is designed for organisations operating AWS platforms in regulated or sovereignty-constrained contexts, including:

- **Healthcare & Life Sciences** — NHS DSPT, genomics, clinical research
- **Financial Services** — FCA/PRA-regulated institutions and processors
- **Public Sector** — UK government and ALB environments
- **Multi-national organisations** — UK/EU data protection and residency constraints

It is particularly valuable where cloud adoption has stalled due to uncertainty around jurisdiction, auditability, or regulator expectations.

What's included

- Identification of applicable regulatory frameworks and obligations
- Sovereignty boundary definition (data location, access, control)
- Data flow mapping and cross-border risk analysis
- Review of encryption, key management, and access models
- Assessment of auditability and evidence generation mechanisms
- Mapping of regulatory requirements to technical control domains
- Architectural gap and risk analysis
- Prioritised backlog of platform changes

Delivery Approach

The assessment is delivered through a structured, assurance-led engagement designed to move clients from policy uncertainty to architectural clarity.

Work begins by aligning on regulatory scope, sovereignty goals, and risk appetite with IG, security, and platform stakeholders. The existing AWS architecture is then analysed against those requirements, focusing on enforceability rather than intent. Findings are consolidated into a clear assessment that distinguishes between issues that can be addressed through design and automation versus those that currently rely on manual control.
The emphasis is on producing outputs that can be taken directly into blueprinting and implementation phases.

Key Deliverables

- Sovereignty Alignment Charter
- Regulatory Mapping Matrix (obligations → control domains)
- Sovereignty & Compliance Assessment Report
- Architectural risk and gap summary
- Prioritised technical remediation backlog
- Executive-level compliance readiness overview

AWS Services & Framework Alignment

This service aligns regulatory obligations to platform capabilities provided by Amazon Web Services, typically including:

- AWS Identity and Access Management (IAM)
- AWS Key Management Service (KMS)
- Amazon S3 data protection features
- AWS CloudTrail and AWS Config
- AWS Organizations and service control policies
- AWS Security Hub

Specific services and controls reviewed will vary based on sector, workload scope, and regulatory context.

Pricing & Commercial Model

- **Engagement Model**: Professional Services

Pricing is provided on request based on regulatory scope, environment complexity, and the applicable rate card. Fixed-price delivery is typically suitable for well-defined frameworks such as GDPR, DSPT, and ISO 27001.

Data Residency & Sovereignty Control Patterns for AWS

Overview

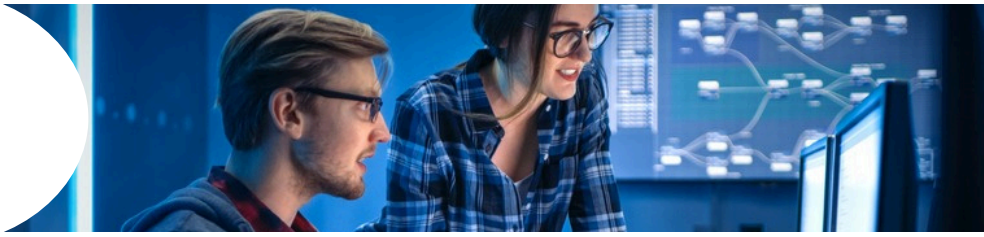
The Server Labs designs and implements enforceable data residency and sovereignty architectures for AWS, ensuring sensitive data remains within defined geographic and organisational boundaries by design, not convention.
In regulated environments, sovereignty requirements are often understood but weakly enforced, relying on policy, documentation, or manual controls that break down at scale. This service delivers deployable architecture patterns that hard-code residency, access, and encryption boundaries into the platform itself, providing confidence that data cannot move, be accessed, or be decrypted outside agreed limits without deliberate architectural change.

Benefits

- Enforces sovereignty through platform architecture
- Removes reliance on procedural or manual controls
- Prevents accidental cross-border data movement
- Establishes clear ownership of encryption and access
- Scales across environments and workloads consistently

What this service provides

Sovereignty is not a policy statement — it is a set of technical constraints that must hold under operational pressure.
This service delivers a set of proven, AWS-native control patterns that enforce data residency and sovereign control across storage, processing, access, and audit layers. It takes agreed sovereignty principles and translates them into concrete architectural decisions governing where data may exist, who may access it, how it is encrypted, and how those constraints are enforced continuously.
The work covers data storage and replication models, encryption and key ownership, identity and access boundaries, and network-level isolation. Particular emphasis is placed on preventing implicit data movement through shared services, misconfigured replication, cross-account access, or overly permissive roles. Architectures are designed so that violations of residency or sovereignty constraints are technically prevented rather than detected after the fact.
All patterns are delivered as deployable artefacts using infrastructure-as-code and standardised configurations, allowing sovereignty controls to be applied consistently across environments, accounts, and workloads.



Who is this for

This service is designed for organisations with strict data residency or sovereignty requirements, including:

- **Healthcare & Life Sciences** — NHS platforms, genomics pipelines, clinical research
- **Financial Services** — FCA/PRA-regulated firms, payment processors, data processors
- **Public Sector —** central government, ALBs, and sensitive citizen data platforms
- **Multi-national organisations** — operating across UK and EU jurisdictions

It is particularly valuable where data sensitivity, regulator scrutiny, or contractual obligations demand that sovereignty controls are provable and enforceable at the platform level.

What's included

- Sovereign AWS reference architecture
- Data residency and geo-fencing design patterns
- Encryption and customer-managed key architectures
- IAM boundary and role segmentation patterns
- Network isolation and service access controls
- Organisational guardrails and enforcement mechanisms
- Infrastructure-as-code templates and pattern packs
- Architecture documentation and implementation guidance

Delivery Approach

The engagement is delivered through structured blueprinting followed by hands-on implementation of sovereignty controls within the AWS environment.

Work begins by confirming the agreed residency boundaries, sovereignty principles, and enforcement requirements established during the assessment phase. Target architectures are then designed to define how data is stored, processed, and accessed within those boundaries, with explicit consideration of failure modes, operational workflows, and shared platform services.

Once the architecture is agreed, sovereignty controls are implemented using infrastructure-as-code and AWS-native services. This includes configuring encryption and key ownership models, enforcing identity and access boundaries, applying organisational guardrails, and restricting data movement through replication and networking controls.

Controls are validated to ensure that data cannot be accessed, decrypted, or transferred outside defined boundaries without intentional architectural change. The focus throughout is on preventative enforcement and repeatability, ensuring sovereignty holds as platforms scale and evolve.

Key Deliverables

- Sovereign Cloud Architecture Blueprint
- Data Residency Pattern Catalogue
- Key Management and Encryption Control Pack
- IAM Boundary and Access Pattern Library
- Deployed infrastructure-as-code artefacts
- Implementation summary and operational handover

AWS Services & Framework Alignment

This service implements sovereignty controls using capabilities provided by Amazon Web Services, typically including:

- Amazon S3 regional controls and replication settings
- AWS Key Management Service (KMS) with customer-managed keys
- AWS Identity and Access Management (IAM)
- AWS Organizations and service control policies
- Amazon VPC and network isolation features
- AWS Config rules for residency and control enforcement

The specific services and configurations used will vary depending on sector, workload design, and regulatory context.

Pricing & Commercial Model

This service is delivered as Professional Services.

Pricing is provided on request based on architectural complexity, number of environments, and jurisdictional requirements. Fixed-price delivery is often suitable for standard sovereign patterns, with time-and-materials applied where bespoke controls or multi-jurisdiction complexity applies.

Automated Compliance Validation & Evidence Enablement for AWS

Overview

The Server Labs enables continuous, automated compliance validation on AWS by turning regulatory controls into observable platform signals and audit-ready evidence.

In many regulated environments, compliance breaks down at the point of proof. Controls may exist, but evidence is fragmented, manually assembled, or generated too late to be trusted. This service establishes automated validation and evidence pipelines that surface compliance posture in real time and produce defensible artefacts directly from platform behaviour.

Benefits

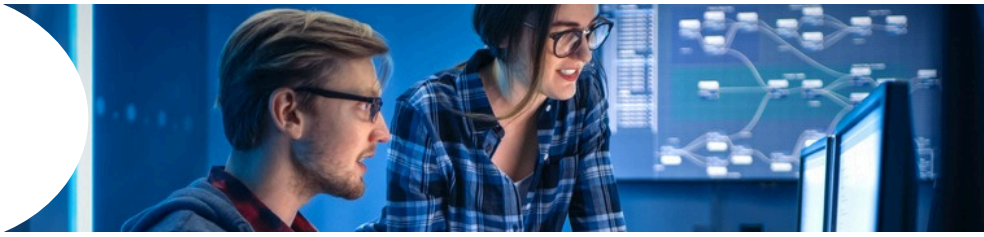
- Automates compliance validation across AWS platforms
- Produces audit-ready evidence without manual effort
- Improves confidence in regulatory control effectiveness
- Reduces time and disruption during audits
- Scales compliance assurance as platforms evolve

What this service provides

Compliance is only meaningful if it can be proven continuously.

This service operationalises compliance by implementing automated validation and evidence capture across the AWS environment. Regulatory and framework controls are mapped to concrete technical signals — such as configuration state, encryption status, access boundaries, and audit logs — and validated continuously using AWS-native services.

Evidence is generated directly from platform telemetry rather than manual attestations. This includes verification of encryption controls, identity and access compliance, data residency enforcement, logging coverage, and configuration drift. Outputs are structured so they can be consumed by security, compliance, and audit teams without rework or interpretation.
The result is a living compliance posture: visible, measurable, and defensible at any point in time.



Who is this for

This service is designed for organisations operating AWS platforms under ongoing regulatory scrutiny, including:

- **Healthcare & Life Sciences** — NHS DSPT, clinical systems, genomics platforms
- **Financial Services** — FCA/PRA-regulated environments and processors
- **Public Sector** — UK government and ALB platforms
- **Multi-national organisations** — subject to GDPR, cross-border controls, and contractual audit rights

It is particularly valuable where audits are frequent, regulator engagement is active, or compliance evidence must be produced quickly and reliably.

What's included

- Compliance control validation pipelines
- Automated evidence capture and retention
- Configuration and control drift detection
- Real-time compliance dashboards
- Audit-ready evidence artefact generation
- Integration with existing security and logging tooling
- Guidance on evidence consumption and interpretation

Delivery Approach

The engagement is delivered through focused implementation of automated validation and evidence pipelines within the AWS platform.

Work begins by confirming the compliance frameworks and control domains to be validated, based on outputs from the alignment and blueprint phases. Validation rules are then implemented using AWS-native services to continuously assess configuration state, control effectiveness, and policy compliance.

Evidence pipelines are configured to collect, structure, and retain artefacts required for audit and regulatory review, including logs, configuration snapshots, and control attestations. Dashboards are built to surface real-time compliance posture and highlight exceptions or drift.

Where required, the service can extend into an operate-and-assure model, providing periodic review and maintenance of validation rules and evidence outputs as platforms and regulations evolve.

Key Deliverables

- Automated compliance validation pipelines
- Evidence pipeline templates and configurations
- Real-time compliance dashboards
- Compliance validation reports (CIS, NIST, ISO-aligned)
- Structured audit-ready evidence artefacts
- Operational guidance for ongoing assurance

AWS Services & Framework Alignment

This service implements validation and evidence automation using capabilities provided by Amazon Web Services, typically including:

- AWS Config and managed rules
- AWS Security Hub
- AWS CloudTrail
- Amazon CloudWatch
- Amazon EventBridge
- AWS Inspector and GuardDuty

The specific services and rule sets used will vary depending on regulatory scope, sector requirements, and platform architecture.

Pricing & Commercial Model

-**Engagement Model**: Professional Services

Pricing is provided on request based on the number of frameworks in scope, environment complexity, and integration requirements. Fixed-price delivery is often suitable for standard frameworks such as DSPT, GDPR, CIS, and ISO 27001, with time-and-materials applied where bespoke validation or integrations are required.

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TSL Company Profile

Founded in 2004, TSL are cloud architects and integrators.

We offer a full range of lifecycle cloud solutions and services, from consultancy, software/application development, to cloud architecture design, and integration, to fully managed services.

Our specialisations are High Performance Computing and AI/ML deployed in highly secure cloud environments, with best practice built in from day one.

Our clients include private and public organisations, with an emphasis on those processing large amounts of data in mission critical environments, particularly in the Lifesciences, Utilities, Banking, Space, Metrology and Telecoms sectors.

aws PARTNER Advanced Tier Services

aws PARTNER Migration and Modernization Services

aws PARTNER Well-Architected Partner Program

CfA Centre for Assessment ISO 27001 Information Security

UKAS MANAGEMENT SYSTEMS 0120

CYBER ESSENTIALS PLUS

The Server Labs 3 Layer Service Map

AI Readiness

- **Ultra Compute** — Scalable, Burstable, Parallel Compute Orchestration
- **Data Fabric** — Massive Scale, Optimised, Multimodal Data Platforms

Cloud Maturity Accelerators

- Cloud Migration Factory & Migrations
- Cloud Adoption Accelerator & Landing Zones
- Cloud Modernisation & Optimisation Toolkits
- Cloud Centre Of Excellence Rollout Accelerator

Trusted Foundations

- Zero-Trust Security Blueprint & Security Hardening Toolkit
- FinOps and Sustainability Toolkit
- Backup, Resilience & SRE Best Practice Blueprints
- Sovereignty & Regulatory Compliance Toolkits
- Modern DevSecOps Automation Practices
- Well Architected

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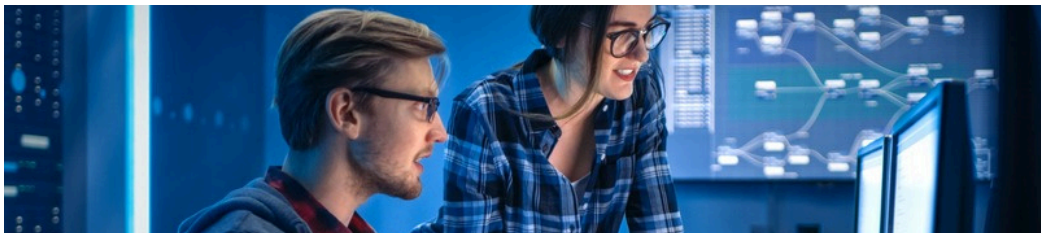

The Company's mission is:

- To provide expert services in the field of cloud architectures, High Performance Computing, and advanced cloud software engineering
- To radically improve cloud software development processes
- To help organisations achieve better business results through the correct use of cloud technologies
- To create high quality innovative cloud software solutions, providing added value to our customers

The specific value, experience and expertise that The Server Labs can provide are:

1. **Technical excellence** and capability to act as lead on architectural decisions and as technology expert in software and system subjects.
2. **Proven experience** in implementing HPC, FinOps, Cloud Security and Big Data Projects.
    - FinOps sustainable change management to enable innovation
    - Industry leading experts in high performance computing
    - Cloud security and sensitive, big data management and processing
3. **Cloud migration**: Proven track record in migrating large, complex and sensitive dataset from on-premise to cloud environments and from legacy to target cloud.
4. **Architecture experience** at software and system level.

AWS MAP and WAF certified

TSL have achieved AWS MAP competence, which is a rigorous and demanding standard to achieve and few boutique consultancies like TSL have achieved this.

Our architects and engineers are experts with an average of 10 years' experience in the planning, design and development of complex software systems. Our multinational team has been a pioneer in cloud native service, serverless computing, automation, infrastructure as code, and distributed architectures, and has the required hands-on experience in many state of the art technologies.

The Server Labs is a leader in cloud computing solutions and services, helping organisations to move to the cloud at all levels.

Ready to lead the future?

Explore what's possible with TSL—
where innovation meets execution.
Contact us today to start your journey.

Visit our website | Email us

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