



The Server Labs

G-Cloud 15 Service

Description

G-Cloud 15 Service Definition –
Cloud Modernisation & Optimisation
Assessment for AWS

Ref: TSL/GCLOUD15/SERVICE/CMOA

Issue Number
1.0

Date
Jan 2026



Cloud Modernisation & Optimisation Assessment for AWS

Overview

With over **20 years of AWS expertise** and as one of the **first UK AWS Partners**, The Server Labs helps organisations establish secure, scalable cloud foundations for long-term success.

As cloud environments mature, the very choices that once enabled speed often start to slow teams down. Architectures become tightly coupled, automation lags behind delivery, and introducing new capabilities becomes harder than it should be. This is common practice, but it inevitably limits the ability to adopt new patterns.

In today's fast-changing world, **modernisation is an essential prerequisite for AI adoption**.

The **Cloud Modernisation & Optimisation Assessment for AWS** focuses on identifying where constraints exist in your environment and defining how modern engineering patterns, automation, and architectural improvements will restore agility, resilience, and long-term readiness — including for AI introduction

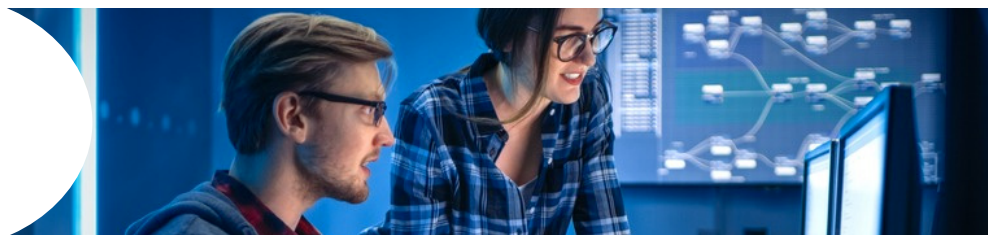
Benefits

- Clear view of what is limiting delivery speed and quality
- Builds a foundation that supports future AI integration
- Practical, experience-led modernisation recommendations
- Focus on agility, resilience, and architectural quality
- Creates a roadmap for sustainable improvement

What this service provides

Most cloud platforms don't fail — they outgrow their original design.

Over time, applications become more tightly coupled, delivery processes become more manual, and teams spend more effort maintaining structure than delivering change. Reliability, performance, and security often suffer as a result.



When this happens, introducing advanced capabilities becomes difficult — not because of the technology itself, but because the platform isn't designed to absorb change easily. In a world where AI adoption will be necessary to thrive, **modernisation is what makes that change possible rather than painful.**

This assessment focuses on how your platform actually behaves in practice:

- Where architecture is slowing change
- Where manual processes are adding friction
- Where modern patterns would simplify delivery
- How easily new capabilities can be introduced
- How ready applications are for data-driven evolution
- Where resilience, performance, and security can improve through better design

The outcome is not a theoretical model.

It's a **practical, prioritised** view of where modernisation will make a real difference, and prepare the platform for what comes next.

Who is this for

This service is suited to organisations that:

- Have established workloads on AWS
- Want to improve speed, quality, and resilience
- Want to prepare their platforms for future innovation and AI
- Are considering architectural change or refactoring
- Need clearer direction before investing in delivery

What's included

- Application and platform architecture review
- Delivery and automation maturity assessment
- Identification of monolith and coupling constraints
- Suitability analysis for modern patterns (e.g. serverless, event-driven)
- AI-readiness and extensibility assessment
- Prioritised modernisation opportunity catalogue
- High-level modernisation roadmap



Delivery Approach

The engagement follows a structured, evidence-led approach focused on understanding real-world behaviour, not just design intent.

Phase 1 – Architecture & Delivery Baseline

We assess how applications are structured, deployed, and operated day to day.

Phase 2 – Constraint & Opportunity Analysis

We identify where architecture, automation, and delivery practices are limiting agility, resilience, and the ability to absorb future change.

Phase 3 – Modernisation Prioritisation

Opportunities are prioritised based on practical impact, feasibility, and alignment to business goals.

Phase 4 – Roadmap Definition

A clear, phased modernisation roadmap is defined to guide future delivery and platform evolution, highlighting essential changes required to support innovation, including AI.

This assessment can stand alone or feed directly into targeted Modernisation & Optimisation Packs.

Key Deliverables

- Modernisation Opportunity Catalogue
- Architectural Maturity Baseline
- Agility & Automation Readiness Summary
- AI-Readiness & Extensibility Assessment
- Prioritised Modernisation Roadmap
- Executive Summary Pack

AWS Services & Framework Alignment

This service aligns to:

- AWS Well-Architected Framework (architecture & reliability focus)
- AWS Cloud-Native Design Principles

Pricing & Commercial Model

- **Engagement Model:** Professional Services
- **Pricing:** Please contact TSL for details of pricing models available
- **Procurement:** Available via G-Cloud 15 and AWS Marketplace



Cloud Modernisation & Optimisation Packs for AWS

Overview

The **Cloud Modernisation & Optimisation Packs for AWS** provide targeted, practical interventions that improve how applications are structured, deployed, and operated. Each pack focuses on removing architectural friction, increasing automation, and introducing modern engineering patterns that make change easier, safer, and more sustainable.

These packs are often delivered following a Modernisation & Optimisation Assessment, but can also be applied where specific challenges are already well understood.

Benefits

- Improves agility through modern architectural patterns
- Strengthens quality, resilience, and operational stability
- Reduces complexity by separating concerns
- Makes automation easier to implement and sustain
- **Creates a platform that can absorb future AI capability**

What this service provides

Most modernisation doesn't require a full rewrite.

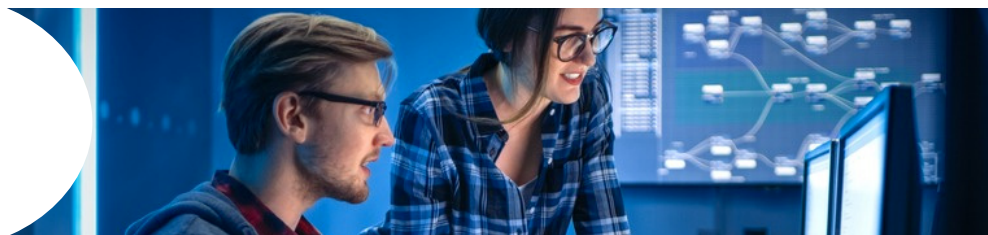
It requires **focused, well-designed change** in the right places.

Modernisation & Optimisation Packs address the areas where architecture, delivery processes, and platform design are limiting progress. The goal is to make systems easier to change, easier to operate, and easier to extend — without disrupting live services.

Typical areas of focus include:

- Breaking monoliths into modular services
- Introducing event-driven and serverless patterns
- Modernising APIs and integrations
- Improving CI/CD and infrastructure automation
- Strengthening observability and reliability
- Embedding security and resilience into design
- Structuring applications for data-driven and AI-enabled evolution

Each pack delivers a measurable improvement in how the platform behaves, not just how it looks on paper.



Who is this for

This service is suited to organisations that:

- Have workloads running on AWS
- Want to improve speed, quality, and reliability
- Are struggling with tightly coupled systems
- Need to modernise without major disruption
- Want to prepare for future innovation

What's included

- Targeted architectural refactoring
- Modern pattern implementation (e.g. serverless, event-driven)
- CI/CD and automation improvements
- API and integration modernisation
- Observability and reliability uplift
- Secure-by-design enhancements
- Updated technical documentation and runbooks

Delivery Approach

Each Modernisation & Optimisation Pack is delivered through a structured, low-risk engagement model.

Phase 1 – Scope & Design

We define the specific architectural or delivery challenges to be addressed and design the right modernisation approach.

Phase 2 – Implementation

Targeted changes are implemented using modern AWS patterns and automation.

Phase 3 – Validation

Changes are tested, stabilised, and verified in live environments.

Phase 4 – Handover

Documentation and knowledge transfer ensure teams can sustain the improvements. Packs can be delivered individually or combined into broader delivery waves.



Key Deliverables

- Modernisation Pack Runbook
- Architecture and Design Artefacts
- Implemented Improvements
- Validation & Stabilisation Summary
- Updated Operational Documentation

AWS Services & Framework Alignment

This service aligns to:

- **AWS Well-Architected Framework** (architecture & reliability focus)
- **AWS Cloud-Native Design Principles**

Typical AWS services used during implementation may include:

- AWS Lambda
- Amazon API Gateway
- Amazon EventBridge
- Amazon ECS / EKS
- AWS Step Functions
- AWS CloudWatch
- AWS CI/CD tooling

(Final services depend on the scope of each modernisation pack.)

Pricing & Commercial Model

- Engagement Model:** Professional Services
- Pricing:** Fixed-price or Time & Materials (depending on complexity)
- Procurement:** Available via G-Cloud 15 and AWS Marketplace



Cloud Modernisation & Optimisation Programme for AWS

Overview

The **Cloud Modernisation & Optimisation Programme for AWS** brings together multiple targeted modernisation packs under a single, governed delivery framework. Rather than treating modernisation as a series of disconnected technical changes, the programme is designed around a holistic transformation theme — such as Agility for Growth or AI Readiness — that aligns technology change with wider business ambition.

The result is a coordinated, enterprise-grade approach to modernising platforms and applications at scale, without losing control of quality, risk, or direction.

Benefits

- Drives platform change around a clear strategic theme
- Improves agility, resilience, and engineering quality
- Delivers coordinated modernisation at enterprise scale
- Maintains architectural and delivery governance
- Builds a foundation that supports future AI adoption

What this service provides

Modernisation works best when it follows a clear direction.

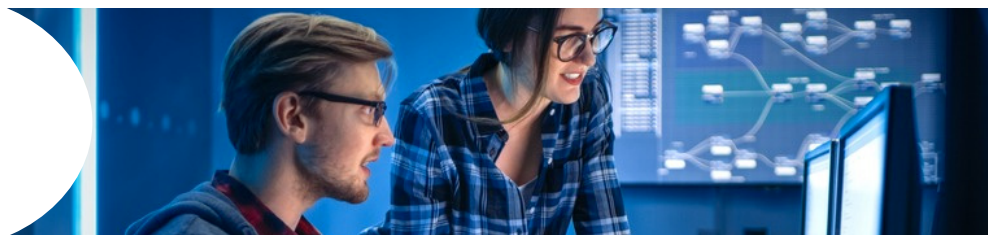
Without a unifying theme, individual improvements can feel fragmented — helpful in isolation, but limited in strategic impact. A modernisation programme provides the structure, governance, and sequencing needed to turn targeted changes into a coherent transformation.

Each programme is built around a holistic objective, such as:

- Enabling faster product and service innovation
- Improving platform reliability and operational confidence
- Preparing applications for AI-driven capabilities
- Supporting growth through more flexible architectures

The programme then coordinates multiple Modernisation & Optimisation Packs to deliver against that objective in a controlled, phased way.

The focus is not just on changing systems — it's on improving how the organisation builds, operates, and evolves them.



Who is this for

This service is suited to organisations that:

- Have multiple workloads or platforms on AWS
- Want to modernise at scale, not just in pockets
- Need enterprise-grade governance and assurance
- Are aligning technology change to business strategy
- Want to prepare for future innovation, including AI

What's included

- Programme-level modernisation roadmap
- Themed transformation objective (e.g. Agility or AI Readiness)
- Sequenced delivery waves
- Architecture governance and design authority
- Quality and risk management checkpoints
- Stakeholder and dependency coordination
- Executive-level progress reporting

Delivery Approach

The programme follows a structured, phased delivery model designed to balance pace with control

Phase 1 – Programme Alignment & Theme Definition

We define the overarching modernisation objective and align it to business priorities, technical constraints, and organisational readiness.

Phase 2 – Architecture & Delivery Governance Setup

Architectural standards, design authority, and delivery controls are established to maintain quality across multiple workstreams.

Phase 3 – Coordinated Delivery Waves

Modernisation Packs are delivered in sequenced waves, each contributing to the programme's central theme.

Phase 4 – Validation & Consolidation

Outcomes are validated against agreed objectives, and improvements are embedded into day-to-day delivery practices.

This ensures modernisation is coherent, controlled, and strategically aligned.



Key Deliverables

- **Modernisation Programme Roadmap**
- **Transformation Theme Definition**
- **Architecture Governance Model**
- **Delivery Wave Plans**
- **Quality & Risk Assurance Reports**
- **Executive Progress Summaries**

AWS Services & Framework Alignment

This service aligns to:

- **AWS Well-Architected Framework** (architecture & reliability focus)
- **AWS Cloud-Native Design Principles**

AWS services used will depend on the scope of each modernisation pack and programme theme.

Pricing & Commercial Model

- Engagement Model:** Professional Services
- Pricing:** Fixed-price or Time & Materials (depending on complexity)
- Procurement:** Available via G-Cloud 15 and AWS Marketplace



Cloud Modernisation & Optimisation - Managed Continuity & Improvement Wrap for AWS

Overview

The **Managed Continuity & Improvement Wrap for AWS** ensures that modernisation gains are not only maintained, but continuously strengthened. As platforms evolve, teams change, and new demands emerge, architectural quality, automation, and agility can drift without deliberate oversight.

This service provides the governance, telemetry, and strategic guidance needed to keep modern platforms aligned to their original intent — supporting long-term resilience, innovation, and future readiness.

Benefits

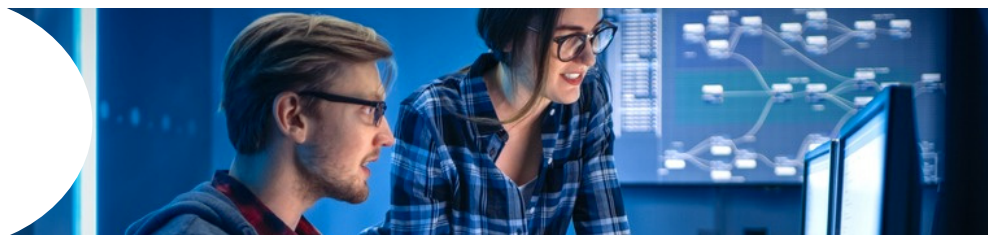
- Sustains agility, quality, and architectural integrity over time
- Prevents drift from modern engineering standards
- Reinforces automation and delivery maturity
- Strengthens long-term resilience and reliability
- Maintains a platform ready for future innovation, including AI

What this service provides

Modernisation is not a one-off event, It's a continuous journey.

As new features are added, teams evolve, and priorities shift, even well-designed platforms can gradually lose the characteristics that made them effective: clear separation of concerns, strong automation, reliable delivery pipelines, and resilient architecture.

This service exists to protect those qualities.



Who is this for

This service is suited to organisations that:

- Have completed modernisation initiatives
- Want to sustain improvements over time
- Operate complex or evolving AWS environments
- Need ongoing architectural oversight
- Want to remain ready for future innovation

What's Included

- Periodic architectural and delivery maturity reviews
- Platform evolution and drift assessments
- Recommendations for continuous improvement
- Governance and quality assurance checkpoints
- Executive-level insight and reporting
- Ongoing advisory support

Delivery Approach

The wrap follows a structured, low-disruption engagement model focused on continuity rather than change.

Phase 1 – Baseline Review

We assess the current state of the platform against modernisation objectives and architectural intent.

Phase 2 – Drift & Opportunity Identification

We identify where delivery practices, automation, or architecture are starting to diverge from modern standards.

Phase 3 – Improvement Planning

Practical recommendations are defined to reinforce agility, reliability, and quality.

Phase 4 – Ongoing Oversight

Regular check-ins ensure improvements are embedded and sustained over time.

The service can follow a Modernisation Programme or operate independently.



Key Deliverables

- Modernisation Continuity Review Report
- Drift & Improvement Summary
- Platform Evolution Recommendations
- Architecture & Delivery Maturity Insights
- Executive Summary Pack

AWS Services & Framework Alignment

This service aligns to:

- **AWS Well-Architected Framework** (architecture & reliability focus)
- **AWS Cloud-Native Design Principles**
-

AWS services referenced will depend on the platform being reviewed and the areas of focus.

Pricing & Commercial Model

- Engagement Model:** Professional Services
- Pricing:** Fixed-price or Time & Materials (depending on complexity)
- Procurement:** Available via G-Cloud 15 and AWS Marketplace



Cloud Modernisation & Optimisation for AWS

Overview

The **Cloud Modernisation & Optimisation for AWS** service brings together assessment, targeted engineering improvements, enterprise-grade delivery governance, and ongoing continuity into a single, coherent modernisation capability.

Rather than treating modernisation as a series of isolated technical changes, this service provides a structured, strategic approach to improving how platforms are built, operated, and evolved — strengthening agility, resilience, quality, and long-term readiness, including for AI adoption.

Benefits

- End-to-end AWS migration under a single engagement
- Structured, phase-based delivery with clear governance
- Secure foundations established before workloads move
- Predictable, wave-based migration execution
- Delivered by the first UK AWS Partner with 20+ years' experience

What this service provides

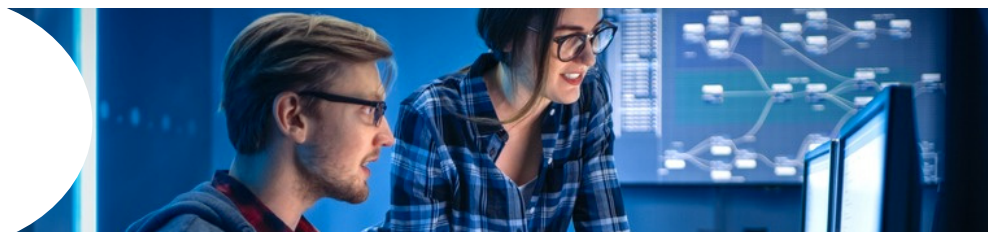
Cloud modernisation works best when it is intentional, coordinated, and sustained. This holistic service combines:

1. Modernisation & Optimisation Assessment

A structured, evidence-led review of architecture, delivery practices, and platform maturity to identify where change will deliver the greatest impact.

2. Modernisation & Optimisation Packs

Targeted engineering interventions that introduce modern patterns such as modular services, automation, event-driven design, and improved resilience — without disrupting live systems.



3. Modernisation & Optimisation Programme

Enterprise-scale delivery of multiple packs under a single governance model, aligned to a strategic theme such as Agility for Growth or AI Readiness.

4. Managed Continuity & Improvement Wrap

Ongoing oversight to sustain architectural quality, prevent drift, and ensure modernisation remains a living capability rather than a one-off initiative.

Together, these elements provide a complete modernisation journey — from insight, to delivery, to long-term sustainability.

Who is this for

This service is suited to organisations that:

- Operate complex AWS platforms
- Need to modernise at scale, not just in pockets
- Want stronger agility, resilience, and delivery quality
- Are aligning technology change to business strategy
- Want to remain ready for future innovation

Delivery Approach

The service follows a structured, phased approach that balances pace with control.

Phase 1 – Assessment & Direction

We establish a clear understanding of architectural constraints, delivery maturity, and modernisation opportunities.

Phase 2 – Targeted Modernisation

Focused engineering packs address the highest-impact areas.

Phase 3 – Programme Delivery

Multiple packs are delivered under enterprise governance, aligned to a unifying transformation theme.

Phase 4 – Sustained Improvement

Ongoing oversight ensures modernisation gains are protected and evolved over time.

This approach ensures modernisation is coherent, controlled, and strategically aligned.



Key Deliverables

- Modernisation Opportunity Catalogue
- Architectural Maturity Baseline
- Prioritised Modernisation Roadmap
- Implemented Modernisation Packs
- Programme Governance Artefacts
- Continuity & Improvement Reports
- Executive Progress Summaries

AWS Services & Framework Alignment

This service aligns to:

- **AWS Well-Architected Framework** (architecture & reliability focus)
- **AWS Cloud-Native Design Principles**

AWS services used will depend on the scope of each modernisation initiative

Pricing & Commercial Model

- Engagement Model:** Professional Services
- Pricing:** Fixed-price or Time & Materials (depending on complexity)
- Procurement:** Available via G-Cloud 15 and AWS Marketplace



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.



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

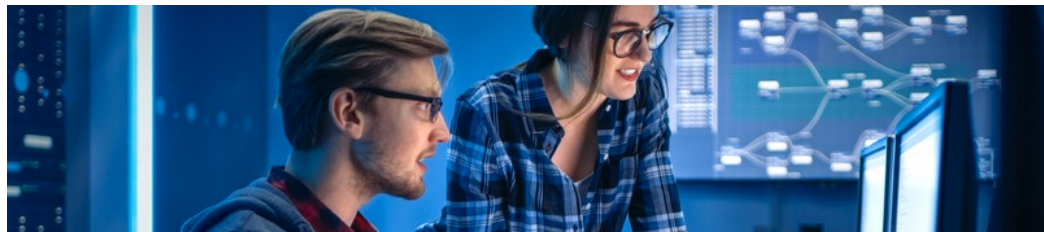
FinOps and
Sustainability Toolkit

Backup, Resilience &
SRE Best Practice
Blueprints

Sovereignty
& Regulatory
Compliance Toolkits

Modern DevSecOps
Automation Practices

Well Architected



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:

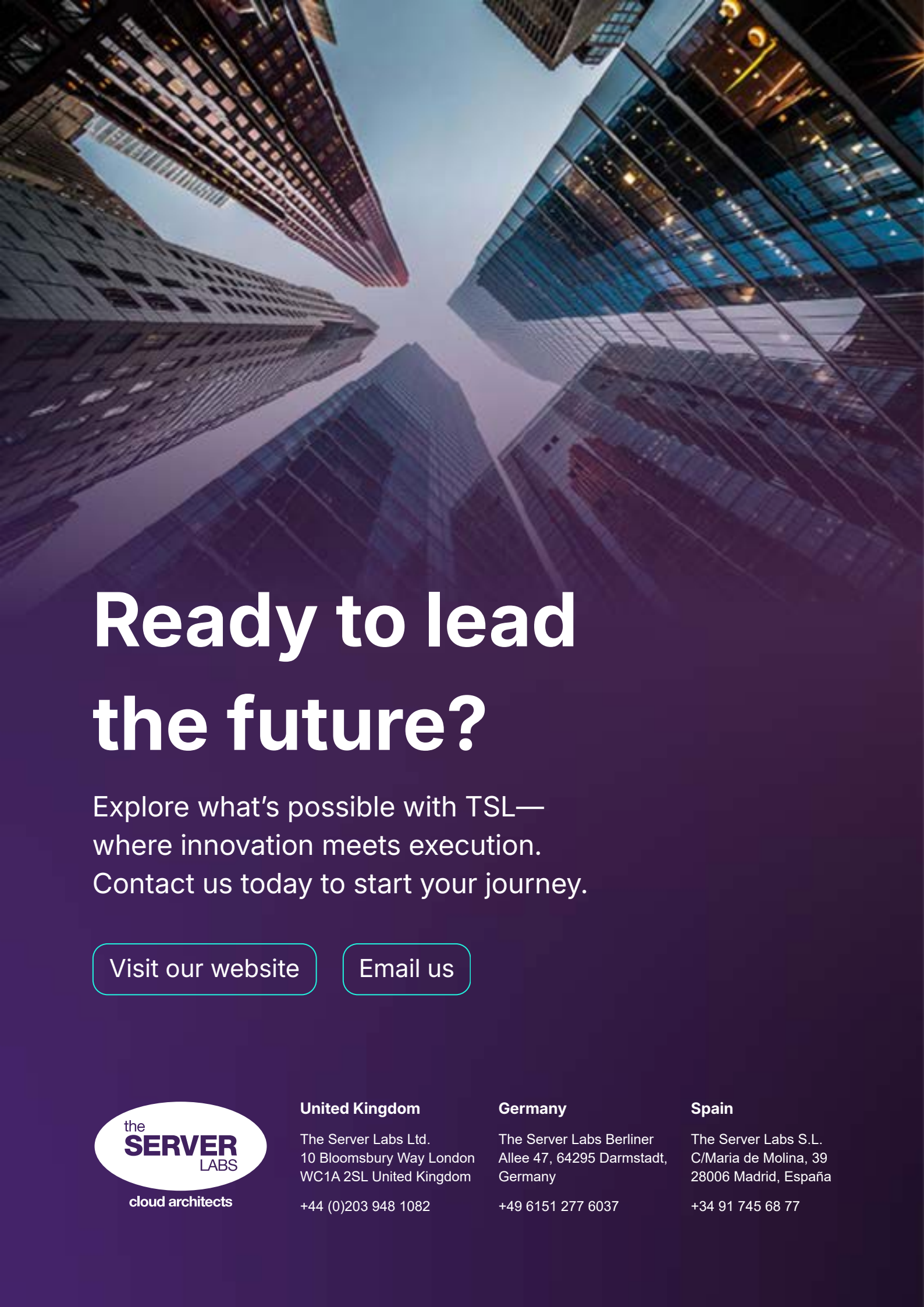
1. **Technical excellence** and capability to act as lead on architectural decisions and as technology expert in software and system subjects.
2. **Proven experience** in implementing HPC, FinOps, Cloud Security and Big Data Projects.
 - FinOps sustainable change management to enable innovation
 - Industry 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](#)



United Kingdom

The Server Labs Ltd.
10 Bloomsbury Way London
WC1A 2SL United Kingdom

+44 (0)203 948 1082

Germany

The Server Labs Berliner
Allee 47, 64295 Darmstadt,
Germany

+49 6151 277 6037

Spain

The Server Labs S.L.
C/María de Molina, 39
28006 Madrid, España

+34 91 745 68 77