



cloud architects

The Server Labs G-Cloud 15 Service Description

G-Cloud 15 Service Definition –
Backup, Resilience And SRE Best
Practices

Ref: TSL/GCLOUD15/SERVICE/BACKUP

Issue Number
1.0

Date
Jan 2026



Resilience Assessment & RTO/RPO Profiling for AWS

Overview

With over twenty years of AWS platform engineering experience, The Server Labs helps organisations establish a clear, evidence-based understanding of their resilience and recoverability posture.

Many AWS environments have implicit recovery expectations that are not reflected in platform design or operational practice. This assessment defines realistic recovery objectives and identifies where current architecture, automation, and operational readiness fall short of required resilience outcomes.

Benefits

- Establishes clear, achievable RTO and RPO targets
- Identifies resilience and recoverability gaps early
- Aligns technical recovery capability to business criticality
- Focuses on real failure modes, not theoretical design
- Suitable for regulated and mission-critical environments

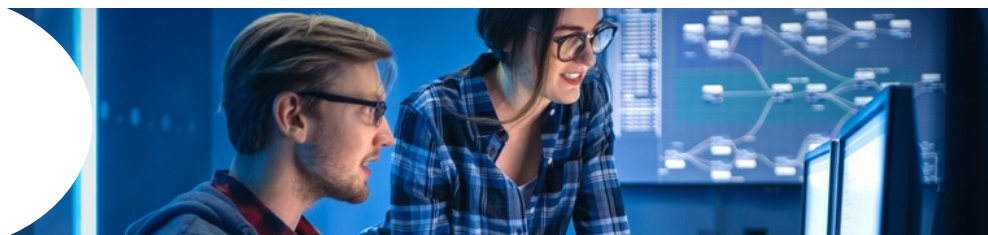
What this service provides

Resilience only exists if recovery objectives can be met in practice.

This service assesses how the AWS platform behaves under failure conditions, focusing on availability, data protection, recovery mechanisms, and operational readiness. It examines how workloads are currently protected, how quickly they can be restored, and whether recovery expectations are realistic given existing architecture and automation.

The assessment explicitly profiles Recovery Time Objectives (RTO) and Recovery Point Objectives (RPO) for key workloads, comparing required outcomes with current platform capability. Particular attention is given to dependency chains, shared services, stateful components, and operational assumptions that can undermine recoverability during real incidents.

The outcome is a clear, defensible view of resilience maturity, grounded in technical reality rather than aspirational targets.



Who is this for

This service is suited to organisations operating AWS workloads where downtime, data loss, or prolonged recovery would have material operational, financial, or regulatory impact.

It is particularly relevant where resilience expectations exist but have not been formally validated against platform design, automation coverage, or operational capability.

What's included

- Review of workload criticality and recovery expectations
- RTO and RPO profiling for priority services
- Assessment of availability and failure domain design
- Review of backup, replication, and restore mechanisms
- Dependency and shared-service risk analysis
- Evaluation of operational recovery readiness
- Identification of resilience gaps and constraints
- Prioritised resilience improvement recommendations

Delivery Approach

The assessment is delivered through a structured, engineering-led review of the AWS environment and the workloads it supports.

Work begins with identification of critical services and required recovery outcomes. Platform architecture, data protection mechanisms, and operational procedures are then analysed to determine whether those outcomes are achievable under realistic failure scenarios. Assumptions around automation, manual intervention, and escalation paths are tested for feasibility.

Findings are consolidated into a clear RTO/RPO profile and gap analysis, with recommendations focused on architectural and platform improvements rather than procedural workarounds.



Key Deliverables

- Resilience Assessment & RTO/RPO Profiling Report
- Workload-level recovery objective definitions
- Gap analysis between required and achievable recovery
- Dependency and failure-mode findings
- Prioritised resilience improvement backlog
- Executive-level summary for technical and leadership audiences

AWS Services & Framework Alignment

This service is aligned with the AWS Well-Architected Framework, with particular emphasis on the **Reliability** and **Operational Excellence** pillars.

Assessment activities typically reference capabilities provided by **Amazon Web Services**, including:

- AWS Well-Architected Framework and Tool
- Amazon EC2 and service availability models
- Amazon S3 data protection and durability patterns
- AWS Backup and snapshot mechanisms
- AWS Organizations and account boundaries
- Native monitoring and logging services

The specific services reviewed will vary depending on the client's AWS architecture, workload mix, and regulatory context.

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



Resilience Blueprint + Automation Pack for AWS

Overview

With over twenty years of AWS platform engineering experience, The Server Labs defines and delivers deployable resilience architectures that make backup, replication, and failover enforceable through automation.

Many organisations understand their recovery objectives but lack a consistent, automated platform design to achieve them. This service provides a resilience blueprint and a set of infrastructure-as-code patterns that translate RTO and RPO requirements into practical, repeatable recovery capability on AWS.

Benefits

- Defines a clear, workload-aligned resilience architecture
- Automates backup, replication, and failover patterns
- Reduces reliance on manual recovery processes
- Improves consistency across environments and services
- Suitable for regulated and mission-critical workloads

What this service provides

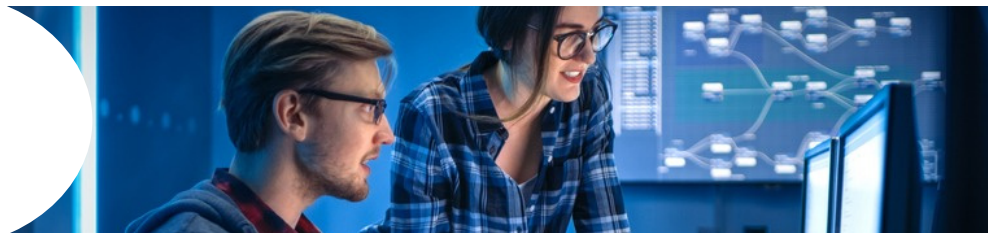
Resilience must be engineered into the platform, not documented as an aspiration.

This service defines the target resilience architecture for AWS workloads based on required recovery objectives and failure scenarios. It establishes how availability zones, regions, data replication, and backup mechanisms should be used to support reliable recovery under different classes of failure.

Alongside the architecture, this service delivers a deployable automation pack expressed as infrastructure-as-code. These patterns implement backup policies, replication strategies, and failover configurations in a consistent, versioned, and repeatable way. Automation ensures that resilience controls are applied by default and remain aligned with the defined recovery objectives.

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The outcome is a resilience foundation that can be deployed, evolved, and validated through platform automation rather than manual intervention.



Who is this for

This service is suited to organisations that have defined RTO and RPO requirements and now require a practical, automated resilience design to meet those objectives on AWS.

It is particularly relevant for environments supporting regulated, sensitive, or mission-critical workloads where recoverability must be demonstrable and repeatable.

What's included

- Resilience reference architecture aligned to RTO/RPO targets
- Availability and failure-domain design patterns
- Backup and data protection architecture
- Replication and failover strategy definition
- Deployable infrastructure-as-code automation pack
- Adoption guidance for platform and delivery teams

Delivery Approach

The engagement is delivered through structured architectural design followed by development of deployable automation aligned to the agreed resilience blueprint.

Work begins with confirmation of recovery objectives and failure scenarios, followed by design of availability, backup, and recovery patterns that meet those requirements. These patterns are then translated into infrastructure-as-code artefacts that can be applied consistently across workloads and environments.

Automation is designed to integrate with existing delivery pipelines and platform standards, enabling resilience to be enforced continuously rather than applied selectively.



Key Deliverables

- Resilience Architecture Blueprint for AWS
- Infrastructure-as-code automation pack for resilience controls
- Backup, replication, and failover patterns
- Configuration guidance aligned to workload criticality
- Adoption documentation for platform implementation

AWS Services & Framework Alignment

This service is aligned with the AWS Well-Architected Framework, with particular emphasis on the **Reliability** pillar.

Architectural designs and automation typically reference capabilities provided by **Amazon Web Services**, including:

- Amazon EC2 and multi-AZ architectures
- Amazon S3 durability and replication features
- AWS Backup and snapshot mechanisms
- Amazon RDS and DynamoDB resilience features
- AWS CloudFormation or Terraform
- Native monitoring and logging services

The specific services and patterns used will vary depending on the client's architecture, workload mix, and regulatory context.

Pricing & Commercial Model

This service is delivered as Professional Services, with pricing provided on request based on scope, workload complexity, and the applicable rate card.



SRE Embed & Continuous Testing Enablement for AWS

Overview

With over twenty years of AWS platform engineering experience, The Server Labs helps organisations embed resilience thinking into day-to-day platform operation through SRE-aligned practices and continuous testing.

Many platforms rely on point-in-time resilience work that slowly degrades as services change. This service introduces practical SRE concepts and automated testing loops that ensure resilience mechanisms remain effective as workloads, teams, and demand evolve.

Benefits

- Embeds resilience into normal platform operation
- Introduces continuous testing of recovery mechanisms
- Improves reliability through SRE-aligned practices
- Reduces reliance on manual resilience exercises
- Suitable for regulated and mission-critical environments

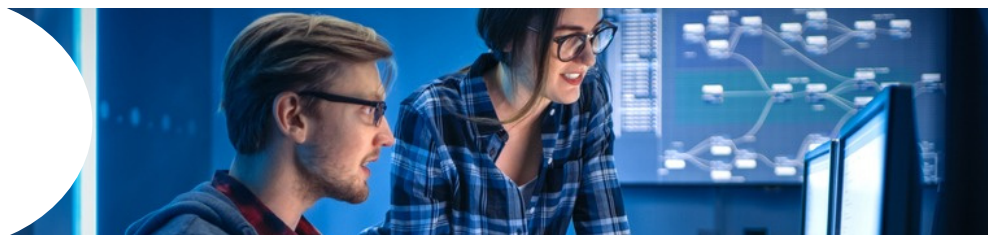
What this service provides

Resilience must be maintained continuously, not revisited episodically.

This service focuses on embedding SRE-aligned practices into the AWS platform so that resilience is tested, measured, and improved as part of normal operation. It introduces service-level objectives (SLOs) and error budgets where appropriate, linking recovery behaviour and reliability targets to operational decision-making.

Automated resilience testing loops are established to exercise backup, failover, and recovery paths on a regular basis. These tests provide early warning of degradation, configuration drift, or dependency changes that could compromise recoverability during a real incident.

The outcome is a platform where resilience is monitored and reinforced continuously, rather than assumed based on historical design work.



Who is this for

This service is suited to organisations that have implemented resilience architectures and validation activities and now need to sustain recoverability as part of ongoing platform operation.

It is particularly relevant for environments where frequent change, scaling, or team turnover increases the risk of resilience degradation over time.

What's included

- Introduction of SRE-aligned resilience practices
- Definition of service-level objectives and reliability signals
- Automated resilience and recovery testing loops
- Integration of resilience testing into platform operation
- Guidance on interpreting reliability and recovery metrics
- Alignment of resilience practices with delivery and operations

Delivery Approach

The engagement is delivered through hands-on enablement focused on embedding resilience practices into existing operational workflows.

Work begins with identification of key services and resilience signals that should be monitored continuously. SLOs and testing mechanisms are then introduced incrementally, aligned to platform maturity and operational tolerance. Automated tests are configured to exercise recovery paths safely and predictably. The approach emphasises practical adoption over theoretical SRE models, ensuring that practices are usable, proportionate, and aligned to real operational needs.



Key Deliverables

- SRE-aligned resilience practice definitions
- Service-level objectives and reliability indicators
- Configured continuous resilience testing mechanisms
- Operational guidance for ongoing resilience management
- Summary of resilience coverage and monitoring scope

AWS Services & Framework Alignment

This service is aligned with the AWS Well-Architected Framework, with particular emphasis on the **Reliability** and **Operational Excellence** pillars.

Enablement activities typically reference capabilities provided by **Amazon Web Services**, including:

- Amazon CloudWatch and monitoring services
- AWS Backup and recovery tooling
- Amazon EventBridge for test orchestration
- AWS Lambda and automation services
- Native logging and observability tooling

The specific services used will vary depending on the client's platform architecture, workload mix, and operational maturity.

Pricing & Commercial Model

-Engagement Model: Professional Services

This service is delivered as Professional Services, with pricing provided on request based on scope, workload criticality, and the level of operational enablement required.



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.

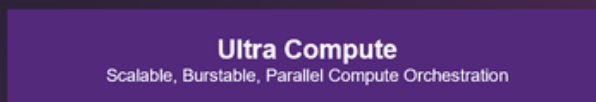
Our clients include private and public organisations, with an emphasis on those processing large amounts of data in mission critical environments, particularly in the Lifesciences, Utilities, Banking, Space, Metrology and Telecoms sectors.



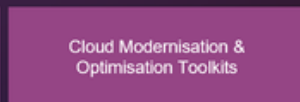
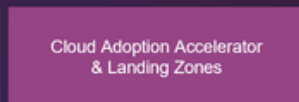
The Server Labs 3 Layer Service Map



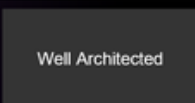
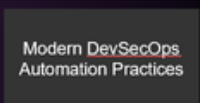
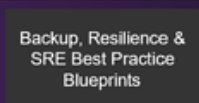
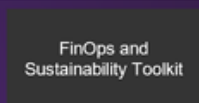
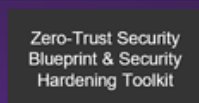
AI Readiness

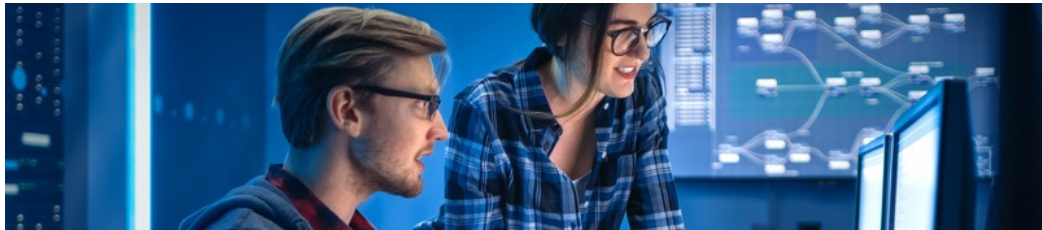


Cloud Maturity Accelerators



Trusted Foundations





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.

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