



Securing AWS Disaster Recovery Infrastructure with GenAI-powered CloudPosture



Executive Summary

KONKAT Information Technology Division manages IT infrastructure and disaster recovery for a conglomerate of ~30 companies operating in regulated sectors including energy, aviation, and maritime. Their AWS-based DR environment – built with LCM Go Cloud – protects 60+ VMs and 28 TB of critical data using pilot light and warm standby strategies.

However, the DR infrastructure itself had never been assessed for security posture or compliance. With the EU NIS 2 Directive enforcement deadline approaching, KONKAT needed auditable evidence that this critical environment met recognised cybersecurity frameworks.

LCM Go Cloud deployed CloudPosture – a GenAI-powered CSPM platform – to perform a 644-check assessment across 10 compliance standards, enable and harden all foundational AWS security services, and deliver AI-generated remediation. Within 10 weeks, KONKAT moved from an unassessed environment to Grade B+ across all primary compliance frameworks, with continuous monitoring in place.

About KONKAT

An IT Service provider delivering comprehensive solutions to a conglomerate of ~30 companies across regulated industries



Industry

IT Services / Conglomerate



Sectors Served

Energy, Aviation, Maritime, Refining



Group Companies

~30 companies relying on shared IT



AWS DR Environment

60+ VMs, 28 TB, pilot light + warm standby



The Business Challenges

Securing a growing DR environment while meeting NIS 2 compliance obligations



No Security Assessment

No structured methodology for evaluating security posture. Misconfigurations, unencrypted volumes, and overly permissive IAM roles went undetected.



NIS 2 Compliance

EU directive requires demonstrable cybersecurity risk management, incident reporting, and auditable compliance against recognised frameworks.



Cascading Risk

A security incident in the shared DR infrastructure could cascade across 30 group companies in regulated sectors including aviation and maritime.



Scaling Without Visibility

100 additional VMs queued for onboarding. Each new workload increased the attack surface without security oversight.

The Solution

A two-layer approach: AWS Security Services Baseline + CloudPosture CSPM Platform

Layer 1 — AWS Security Baseline

- CloudTrail — multi-region API logging with file validation
- AWS Config — continuous resource configuration recording
- GuardDuty — 9 protection features, agentless threat detection
- Security Hub — FSBP v1.0.0 & CIS v3.0.0 standards
- Inspector v2 — 5 scan types for vulnerabilities
- IAM hardening — MFA, access key hygiene, least privilege
- Codified in CloudFormation for auditable repeatability

Layer 2 — CloudPosture Platform

- 644 security checks via 19 specialised agents
- 10 compliance standards with 16,400+ control mappings
- 22 cost optimisation agents
- GenAI-powered remediation (CLI, Terraform, CloudFormation)
- Toxic combination detection with AI explanation
- 7 AWS services unified (GuardDuty, Inspector, Shield, Macie, Detective, CloudTrail, Health)
- Weekly automated scans with trend tracking

Key Capabilities Deployed



Multi-Standard Compliance

644 checks mapped to CIS v3/v5, NIST 800-53, ISO 27001, GDPR, FSBP, PCI DSS, SOC 2



GenAI-Powered Remediation

Amazon Bedrock generates executable fix plans in CLI, Terraform, or CloudFormation format



Toxic Combination Detection

Deterministic detection of high-risk misconfigurations (e.g., public bucket + no encryption + no logging)



7 AWS Services Unified

GuardDuty, Inspector, Shield, Macie, Detective, CloudTrail, Health – one dashboard



Finding Lifecycle Management

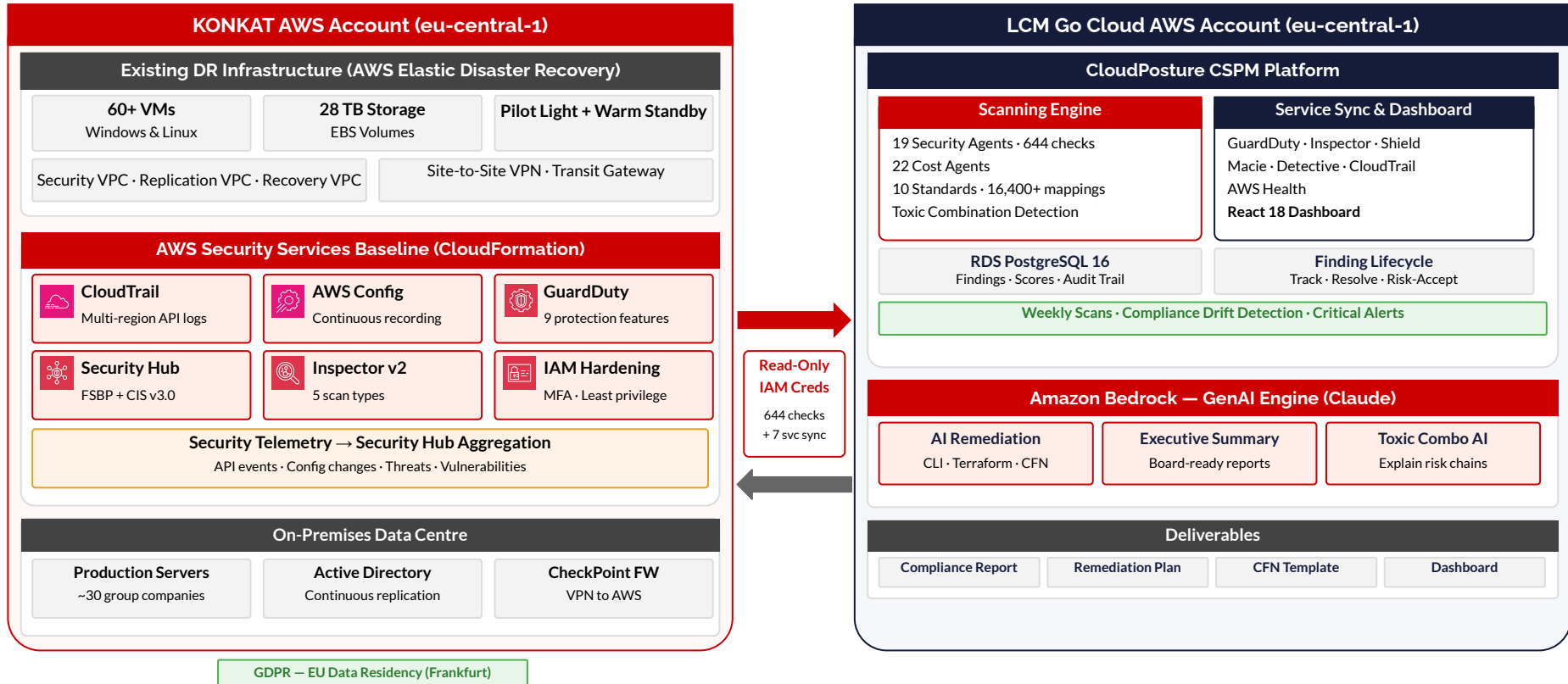
Suppress, acknowledge, track, resolve, or risk-accept with time-bound expiry and audit trail



Continuous Monitoring

Weekly scheduled scans, compliance drift detection, critical finding alerts, score trending

Solution Architecture



Compliance Transformation

From unassessed to Grade B+ across all primary compliance frameworks in 10 weeks

Framework	Before	Grade	After	Grade
CIS v3.0	< 60%	F	> 85%	B+
CIS v5.0	< 70%	D	> 80%	B
NIST 800-53	< 70%	D	> 80%	B
ISO 27001	< 70%	D	> 80%	B
FSBP	< 65%	D	> 90%	A

Scores validated by CloudPosture scanning engine and cross-checked against AWS Security Hub. Both baseline and post-remediation scans preserved as PDF exports.

Outcomes & Results

B+

Compliance
Grade Achieved

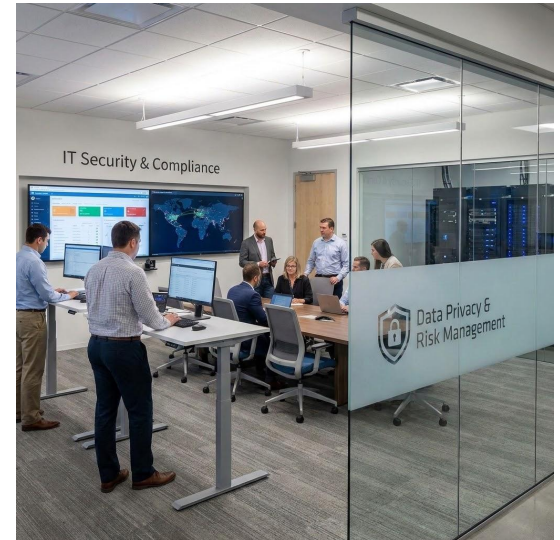
644

Security Checks
Automated

100%

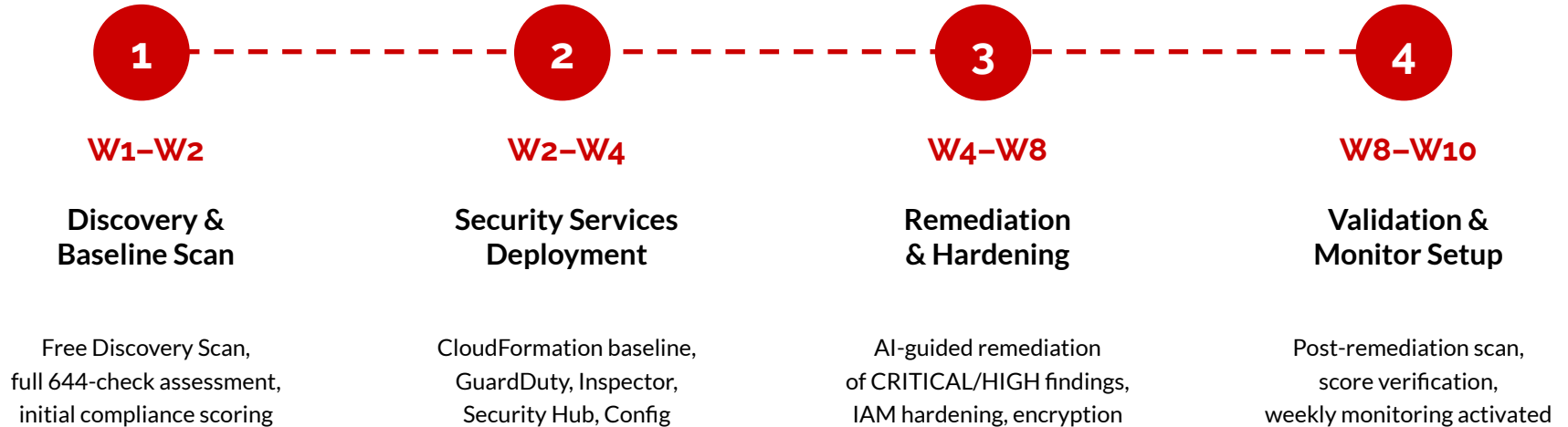
Security Services
Enablement

- Moved from unassessed to fully compliant in 10 weeks
- NIS 2 compliance evidence for regulators and governance board
- All CRITICAL and HIGH severity findings resolved
- Continuous weekly monitoring detects configuration drift
- CloudFormation-codified baseline for repeatable audits
- 30 group companies now protected by verified security posture



Delivery Timeline

From discovery scan to continuous monitoring in 10 weeks



Built on a Proven DR Foundation

CloudPosture complements KONKAT's existing AWS DR solution, also delivered by LCM Go Cloud.

AWS Disaster Recovery (existing)

- 60+ Windows & Linux VMs replicated
- 28 TB provisioned storage
- Pilot light + warm standby strategies
- RTO of minutes, RPO of seconds
- Zero maintenance downtime
- 7-day point-in-time ransomware recovery

CloudPosture Security Layer (new)

- 644-check security assessment
- 10 compliance framework mappings
- NIS 2 compliance evidence
- All AWS security services enabled & hardened
- GenAI-powered remediation guidance
- Continuous weekly monitoring & drift detection

About LCM Go Cloud

Advanced AWS Consulting Partner

Based in Athens, Greece with offices in Cyprus. LCM Go Cloud specialises in Cloud Resilience and GenAI solutions for enterprise clients, with deep expertise in AWS infrastructure, disaster recovery, and AI/ML workloads.

- ✓ 8+ active AWS certifications at Professional and Specialty levels
- ✓ GenAI solutions delivered across distribution, retail, manufacturing, legal, education, financial services
- ✓ CloudPosture is part of the Applied GenAI portfolio – combining cloud security expertise with Bedrock-powered AI
- ✓ Production-grade AI on AWS solving measurable business problems for mid-market enterprises
- ✓ Full-stack ownership: infrastructure, AI agents, user interface – one partner, one SLA

Let's Talk!

Discover how CloudPosture can secure and optimise your AWS environment.

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