

G-Cloud 15

Service Definition Document

Cloud Security Architecture

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The better the question.
The better the answer.
The better the world works.



Shape the future
with confidence

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1. Service detail

Cloud Security Architecture Service

Our Cloud Security Architecture Service provides review, design, implementation, engineering and assurance across the key components of your cloud platforms and workload.

We assess governance, build-time security, run-time security and operational readiness, aligning to the National Cyber Security Centre's (NCSC's) 14 Cloud Security Principles and EY's Enterprise Architecture Principles. Our approach applies Zero Trust by design; strengthens identity, data and platform protections and integrates cloud-native detection and response with SIEM/SOAR and incident playbooks.



Figure 1 - Enterprise Cloud Strategy

Our cloud security professionals can advise on a range of topics, and we have delivered projects that cover an array of cloud capabilities. The seven categories below provide a summary of the activities we undertake.

Extension of the Enterprise Security Strategy and Framework into Cloud

- Strategy and vision for secure-by-design cloud adoption
- Accountability and oversight (service ownership, shared-responsibility model, RACI)
- Policy and standards management with policy-as-code and exception handling
- Legal and regulatory management
- AI risk and governance
- Technology risk management
- Security controls mapping to enterprise framework
- Cloud security operating model and alignment with cloud CoE

- Maturity assessment and gap analysis workshops to prioritise improvement remedial work
- Roadmap for post-quantum cryptography

Cloud Security Framework & Controls

- Cloud Security Controls Framework (CSF) tailored to the risk profile
- CSF alignment with enterprise architecture and risk frameworks
- Control-by-control traceability
- Technical reference architecture with options for future expansion
- Security baseline
- AI control set
- Secure configuration practices
- Security guardrails for IaaS, PaaS and SaaS with integration into CI/CD workflows

Cloud Security Assessment

- Diagnostics and root cause analysis of misconfigurations, identity risks and data exposure
- AI/ML security assessment
- Post-quantum readiness assessment
- Comprehensive assessment of risks and vulnerabilities
- Risk-based vulnerability management
- Penetration testing and vulnerability assessment
- Architectural Risk Assessment (ARA)
- Current state assessment with practical recommendations for secure target state
- Operational readiness and enablement

Architecture and Engineering

- Cybersecurity product augmenting cloud-native controls - vendor selection criteria definition and assessment
- CSPM tools enablement and post-implementation support
- Supply chain integrity and code signing
- Zero Trust design including privileged access control
- Workload protection tool assessment and enablement

- Infrastructure-as-code security
- Identity as new perimeter
- Network, platform and application controls (micro segmentation, application allow listing, secrets management)
- Policy-as-code support with preventative, detective and auto-responsive guardrails

Monitoring and Incident Response

- Specification of cloud security events and use cases
- Threat modelling
- Attack path analysis
- AI in SOC
- SOC integration - cloud detection and response, SIEM/SOAR tuning
- Incident Response (IR) playbooks, Threat and Vulnerability Management (TVM) using cloud-native and third-party tools and services
- Hybrid cloud monitoring and alerting

Platform and Apps Readiness

- 'Path to production' assurance per CSF
- Platform baseline
- Application migration enablement e.g. DevSecOps
- AI deployment readiness
- Change management with released gating
- Environment hardening checklist

Cloud Security Audit

- Internal audit support for cloud security audits and assessments with evidence packs
- Readiness assessment against enterprise standards e.g. ISO27000

2. Key contacts

For further information please get in touch via the email address below.



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