

Evidence-Backed Secure Software Development Lifecycle (SSDLC)

A KPMG Service for G-Cloud 15



KPMG About us

KPMG is one of the largest AI Platforms & Cloud Engineering Advisory and Implementation providers in the UK. We bring end-to-end services across the entire cloud life-cycle from Strategy and Planning, to Architecture and Build, through to running Secure cloud-native applications. This is enabled by our diverse, industry-leading and multi-disciplined experts.

 AI Platforms & Cloud Engineering in its 10th year	 1000+ AI Platforms & Cloud Engineering Team (670+ Engineers & Architects, 500+ Advisory & Delivery consultants)	 2000+ AI & Cloud certifications in Azure, Google, AWS	 £30M + AI Platforms & Cloud Engineering spend supported annually	 600+ AI Platforms & Cloud Engineering projects completed	 50%+ Focused on highly regulated industries
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AI Platforms & Cloud Engineering Practice

- Deep domain experience across a wide range of Cloud providers and technologies
- Leading and award-winning scaled engineering capability
- Long established consulting approach and methodologies

Our Principles

- Industrialised approach reusing assets and accelerators
- Automate everything
- Deliver value for money
- Pride ourselves on high quality outcome deliverables

How we Operate

- Sprint based projects for fast iterative results
- Delivering with our clients using outcome focused multi-disciplinary teams
- Strong, established network to ensure partnering excellence

Our Core Propositions

Besides the core propositions we deliver **240+** services mentioned in our Service Catalogue

Operational Excellence 	AI Powered Modern Platform 	Modern Engineering 	Value & Sustainability 	AI Powered Application Modernisation 
• Cloud CoE & Target Operating Model • Cloud Programme Risk and Assessment • Cloud Maturity Assessment	• Cloud Design, Build, Migrate & Transform • Cloud Risk Controls & Cyber • Cloud Security Architecture	• DevOps & DevSecOps • Secure SDLC • Site Reliability Engineering (SRE)	• ESG • Sustainable Technology • Cloud Cost Management & Financial Optimisation (FinOps)	• Gen AI • Cloud Data & Analytics • Logging and Monitoring

Across our many delivery centres, we work with clients of all industries, specialising in complex, high risk or regulated sectors.



Combining our expertise with our alliance tech solutions, we harness the power of smart technologies. Together, we solve your most complex business issues to create sustainable success.



Secure Software Development Lifecycle (SSDLC)



Service Description:

The Secure Software Development Life Cycle (SSDLC) is a systematic approach to building software that incorporates KPMG's evidence-backed security considerations throughout the entire development process. It aims to proactively identify and mitigate security vulnerabilities, resulting in more secure and reliable software. KPMG offer full services throughout the planning and implementation stages of the SSDLC lifecycle.



Service Categories

- Source Code Management (SCM)
- Software Composition Analysis (SCA)
- Software Bill of Materials (SBOM)
- Artifact Repository
- Static Application Security Testing (SAST)
- Dynamic Application Security Testing (DAST)
- Continuous Integration/Continuous Deployment Pipelines (CI/CD)
- Containers and Registries
- Alignment to Industry best practices such as OWASP and NIST



Service Benefits

- Improve security posture
- Realise return on investment (ROI) for security tooling
- Reduce exposure to code vulnerabilities
- Assure secure and repeatable software development practices
- Secure software supply chain
- Reduce load on security teams
- Increased developer productivity
- Reduce business risk
- Increase security visibility into software delivery practices
- Achieve compliance with regulations/frameworks



Our Service Features

- Security process design and implementation
- Security tool and automation design and implementation
- Combined security reporting
- Secure CI/CD
- Security knowledge transfer and training
- Vendor selection for tooling

Our Approach

KPMG proposes a well-defined approach that will assist in delivering a customised solution that meets your requirement. Using our global framework, industry experience and methodologies we will accelerate your journey to cloud, adoption of your operating model structure, creation of a resilient architecture and business case.



Requirements

Secure software development lifecycle necessitates a comprehensive approach, encompassing secure coding practices, vulnerability assessments, and continuous security testing throughout the development process. This ensures the repeatable development of secure and reliable software, minimises security vulnerabilities, and maintains compliance with relevant security standards.



Activities

Mobilisation

- Gather key stakeholders to define project scope and objectives.
- Establish clear communication channels and project governance.
- Kick off the project with an initial stakeholder meeting to align on goals.

Planning

Planning is a collaborative exercise; with you we will:

- Conduct detailed requirement gathering sessions to capture specific needs.
- Develop a comprehensive project timeline and milestone plan.
- Identify required resources and tools for implementation.

Design

- Architect a scalable and repeatable delivery lifecycle with security, reliability and compliance baked in.
- Define high-level and low-level detail of this flow.
- Ensure the design meets both current and future business requirements.
- Integrate with internal governance continuously.

Delivery

- KPMG practices agile delivery for security solutions, taking a DevSecOps approach.
- We will collect feedback on an iterative basis and adjust implementation as necessary to ensure delivery quality.



Outcomes

KPMG practices agile delivery of security solutions, therefore the plan will contain opportunities to iterate on the solution. During iteration phases we will collect feedback from relevant stakeholders and if necessary, adjust the implementation to ensure the best possible solution is achieved for the client.



High-Level Timelines

Our indicative timeline is based on our experience of delivering similar engagements for multiple organisations. Once engaged, we will work with you to create and agree a bespoke plan to meet your specified requirements.

Why KPMG



Top Professional Brand

KPMG has a strong brand and excellent reputation. We are focused on customer needs and have a pragmatic approach for the design and delivery of our Projects. Our team has a proven track record of delivering similar engagements and an intimate knowledge of challenges faced by our clients.



Constructive Input and Challenge

We consider it to be our responsibility to bring an independent perspective and constructively challenge existing processes and systems. We will highlight and share with you both internal and external leading practices.



We Employ a Collaborative and Integrated Team Approach

We deliver a full suite of evidence-backed recommendations in collaboration with KPMG sector and technical experts in all parts of our business around the globe. By working in multi-disciplinary teams, we can deliver holistic thinking and insights for even the most complex challenges.



We Have Strong Relevant Recent Credentials

We have worked across multiple industries and will bring insights from other sectors to challenge your thinking. We have vast Cloud and DevOps expertise within our technology practice in the UK region alone, who cover everything from hosting strategies to building landing zones. We produce agile, resilient and efficient IT functions that support the wider enterprise.

Our Team, Stories and Solutions

Business Outcomes Powered by Cloud

Our Solutions

Cutting-edge technology, business focused solutions

Our Stories

Discover the impact we've made in the Cloud industry

Our Insights

What are the big issues at the top of your business agenda? Read our latest thinking and research to stay on top of change.

AI and Machine Learning

Thought-leadership, expert analysis, and guidance on all things AI.

AI and Machine Learning

Technology and innovation

Trusted insights and actionable advice on emerging technologies.

Technology and Innovation



The CEO Guide to AI Value



Agentic AI: the what, the why and the how

And many more....

KPMG Industry Analyst Recognition

Industry analysts recognition and accolades - KPMG Global



Microsoft Partner of the Year for 2023
Microsoft Prestige Award for Supplier of the Year



KPMG named a **Global Leader** in Verdantix Green Quadrant: **ESG and Sustainability Consulting 2024**



Global Partner of the Year 2024
Google Cloud DE&I Partner 2024



2x Guinness World Records for DevOps and Cloud Upskilling

DevOps upskilling in KPMG and the community



2020, 2021, 2022

Highly Commended / DevOps Leader of the Year 2023



The Forrester Wave™: Cybersecurity Consulting Services in Europe, Q1 2024





Contact Us



Jonathan Grice

Partner, **Head of AI
Platforms & Cloud
Engineering Infrastructure
Government and Healthcare**

KPMG LLP, CIO Advisory
15 Canada Square
London E14 5GL
jonathan.grice@kpmg.co.uk



Micheal Hoy

Director,
**Head of Cloud Engineering
DevSecOps**

KPMG LLP, CIO Advisory
15 Canada Square
London E14 5GL
michael.hoy@kpmg.co.uk



kpmg.com/uk

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