



Evidence-backed GCP Kubernetes GKE

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 • Cloud Value Management • FinOps • Sustainable Technology	• 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.



GCP Kubernetes GKE



Service Description:

KPMG's evidence-backed Google Kubernetes Engine (GKE) design and deployment service helps organisations effectively adopt GKE, leveraging our expertise in cloud-based application deployment, DevOps practices, and digital transformation.



Service Categories

- GKE Cluster Architecture Design
- Containerisation and Microservices Implementation
- CI/CD Pipeline Integration
- Security and Compliance Configuration
- Performance Optimisation and Scaling
- Network Configuration and Service Mesh Integration
- Stateful and Stateless Application Deployment
- Monitoring, Logging, and Diagnostics Setup
- Disaster Recovery and High Availability Strategies



What are the benefits of KPMG Powered IT service?

- Automates setup for faster deployments.
- Supports agile development approaches, accelerating product release and adapting to market shifts.
- Simplifies compliance procedures, ensuring regulatory and industry best practice adherence.
- Seamlessly integrates security into every software development stage, guaranteeing robust security.
- Monitors application performance and user satisfaction, detecting potential issues and alerting for proactive fixes.
- Facilitates seamless connections between GKE, on-premises environments, and other cloud providers.
- Delivers highly available, scalable, and cost-effective cloud compute.
- Accelerates application modernisation by leveraging KPMG's experience in containerising and migrating legacy applications to cloud-native architectures.
- Offers a robust platform for innovative tech, by integrating with Google Cloud AI/ML capabilities.



Our service features

- GKE cluster design.
- Automated DevOps practices for faster deployment and iteration cycles.
- Advanced security and compliance frameworks aligned with industry standards.
- Scalable architecture design for handling variable workloads.
- Integrated monitoring and logging tools for real-time performance insights.
- CI/CD pipeline setup for automated testing, building, and deployment processes.
- Expert assistance in designing and deploying complex applications on GKE.
- Secure and reliable data storage solutions integrated with GKE.
- Robust network architecture with integrated service mesh for enhanced connectivity.

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.



Key Drivers

- Eliminate the need to manage complex Kubernetes infrastructure, freeing up your team to focus on application development
- Quickly deploy and scale your containerized applications without worrying about infrastructure management.
- Deploy and manage microservices-based applications.
- Modernize existing applications by containerizing and running them on Kubernetes.



Activities

Cluster and Networking Setup

- Configure GKE cluster.
- Implement high availability and disaster recovery strategies.
- Utilise autoscaling for dynamic compute resource adjustment.
- Configure subnets, routes, gateways, firewalls etc.

Security Implementation

- Implement mutual TLS and network policies for secure pod-to-pod communication.
- Configure Role-Based Access Control (RBAC).
- Integrate security scanning tools for vulnerability identification and remediation.

CI/CD Pipeline Integration

- Configure and integrate a CI/CD pipeline.
- Automate deployment processes to reduce manual intervention and errors.
- Establish feedback loops for continuous improvement.

Logging & Monitoring

- Implement a centralized logging system.
- Configure monitoring tools to track cluster performance and resource utilisation.
- Establish alerting and incident response procedures.



Outcomes

- Achieve a highly efficient, scalable, and secure environment for managing containerised applications.
- Enable operational flexibility, rapid deployment and optimised resource utilization.
- Support continuous innovation and growth.
- Improved security posture for containerized applications.
- Accelerated application development and release cycles.



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.

Weeks: Varies

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





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