

Evidence-backed Datacentre Migration - Lift and Shift (Rehost) and Server Migration (Refactor)

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.



Datacentre Migration – Lift and Shift (Rehost) and Server Migration (Refactor)



Service Description:

KPMG offers evidence-backed comprehensive migration strategy that includes SQL Server refactoring and VM rehosting to Azure. By conducting detailed assessments and dependency analyses, we ensure seamless transitions of SQL Server databases and virtual machines to Azure IaaS, optimising for cloud scalability, performance, and cost-efficiency while minimising downtime and maintaining data integrity.



Service Categories

- Comprehensive Environment and SQL Server Assessment
- Unified Cloud Architecture and Database Design
- Integrated Data Migration and Refactoring Strategy
- Performance Optimisation and Cost Efficiency
- Security, Compliance, and Disaster Recovery Planning
- Dependency Management and Integration
- Resource Optimisation and Cost Reduction
- Stakeholder Engagement and Transition Support



Service Benefits

- Streamlines migration processes, significantly reducing deployment times while increasing visibility over workloads and dependencies.
- Enhances database and operational performance, supporting business growth with scalable, cloud-optimised solutions.
- Minimises downtime and ensures continuous business operations, reducing risk and strengthening disaster recovery capabilities.
- Lowers operational costs by optimising resource utilisation and implementing efficient, performant environments.
- Strengthens data security and implements advanced security controls, reducing business risk and enhancing governance.
- Facilitates knowledge transfer and upskilling of staff, leveraging best-in-class architecture and advanced data management tools.



Our Service Features

- Comprehensive assessments of SQL Servers and the current environment to ensure migration readiness and deep understanding.
- Tailored Azure SQL and VM architecture design for optimal performance and cloud efficiency.
- Strategic data and workload migration with minimal downtime, ensuring dependencies are managed and transitions are smooth.
- Optimisation and refactoring of databases and workloads for enhanced cloud performance and cost efficiency.
- Performance tuning specifically designed for Azure environments alongside robust security and compliance measures.
- Seamless integration with Azure ecosystem services, supported by advanced monitoring and disaster recovery planning.
- Client workshops, communications, and detailed transition strategies to facilitate a smooth shift to Azure, reducing capital expenditure by minimising hardware dependency.

Our Approach

KPMG's proven and scalable approach to moving workloads to cloud ensures minimal downtime for your organisation's applications. Our migration methodology includes detailed analysis of the workload followed by a tailored treatment assessment to ensure the optimal migration path is followed for each workload.



Requirements

Successful Datacentre Migration for Lift and Shift and SQL Server Refactor requires a thorough assessment of existing infrastructure, databases, and applications to determine compatibility and optimal migration strategies. Key focuses include minimising downtime, ensuring data integrity, and aligning with business continuity plans.



Activities

Infrastructure Analysis

- Evaluate existing on-premises infrastructure to identify assets for lift and shift and those requiring refactoring.
- Assess workload performance metrics to ensure compatibility and efficiency in Azure.

Migration Strategy Dev

- Create detailed migration roadmaps for each asset category, distinguishing between direct rehosting strategies and those requiring modification or refactoring.
- Plan for potential downtime, ensuring business continuity through redundancy and fallback procedures.

Cloud Solution Architecting

- Design cloud infrastructure specifically optimised for rehosted and refactored assets, focusing on performance, scalability, and security.
- Configure network settings, storage solutions, and compute resources tailored to the needs of the migrated applications and databases.

Execution & Optimisation

- Implement the migration according to the phased plan, monitoring each step for issues.
- Fine-tune the deployed systems, optimise SQL Server instances for cloud operations, and adjust resources to match demand patterns in Azure.



Outcomes

The deployment of Azure Virtual Desktop results in a robust, secure, and scalable cloud-based virtual desktop infrastructure that enhances remote work capabilities. This solution provides users with a high-performance desktop experience, aligned with organizational security standards and operational needs, thereby improving overall productivity and flexibility.



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

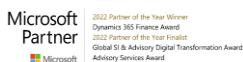


Agentic AI: the what, the why and the how

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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