

Evidence-backed Azure Networking Design, Review and Implementation

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.



Azure Networking Design, Review and Implementation



Service Description:

KPMG's evidence-backed approach to Networking service design and deployment in Azure is to help optimise and secure your organisations Azure network infrastructure.

This includes designing, reviewing and implementing:

- On-premises connectivity (including ExpressRoute and VPN)
- East-West transit and inspection
- North-South transit and inspection



Service Categories

- Connectivity Solutions between Azure and On-Premises Networks
- Azure Virtual Network Configuration and Management
- Network Security and Compliance
- Load Balancing and Traffic Management
- Network Performance Optimisation
- Private Link Setup
- DNS setup and Configuration
- VPN Gateway Configuration for Secure Remote Access
- Monitoring Network stack



Service Benefits

- Simplifies cloud connectivity, enabling efficient hybrid network configurations.
- Enhances network security.
- Ensures uninterrupted services with advanced load balancing and traffic management.
- Improves scalability for network expansions.
- Provides secure remote access.



Our Service Features

- Hybrid connectivity between Azure and on-premises networks.
- End-to-end Azure Virtual Network setup
- Advanced network security, including next generation firewalls, encryption and zero-trust access principles.
- Load balancing methods to ensure application performance.
- Network optimisation techniques for reliability.
- PrivateLink setup for seamless integration between VNets and PaaS services
- DNS solution for reliable domain name resolution.
- Secure VPN or ExpressRoute gateway(s) setups.
- Network monitoring and troubleshooting.

Our Approach

Our Azure certified experts work closely with your organisation to review, design and implement industry good practice networking patterns for your Azure cloud environment. This process includes optimising data flow, enhancing security measures, and integrating cloud services seamlessly to ensure efficient operations and support future growth.



Requirements

Implementing Azure Networking requires a detailed understanding of the organisation's network needs, including scalability, security, and performance. Essential elements include designing a network topology that supports application delivery, ensuring security compliance, and integrating seamlessly with existing on-premises or cloud-based infrastructures.



Example Activities

Network Architecture Design

- Create a robust Azure Virtual Network architecture tailored to specific needs.
- Design network segments and subnet configurations.
- Incorporate redundancy and high availability into network design to ensure continuous service.

Security Implementation

- Apply security measures such as NSG and Firewall to protect network resources.
- Implement secure VPN and ExpressRoute connections.
- Configure DDoS protection and intrusion detection systems to safeguard against threats.

Performance & Testing

- Conduct performance assessments to ensure network configurations meet or exceed required service levels.
- Optimise routing and peering arrangements
- Test network resilience and disaster recovery procedures to validate system robustness.

Review & Maintenance

- Regularly review network usage and performance
- Adjust network configurations and scale resources as needed based on demand and growth.
- Keep network infrastructure up-to-date with the latest Azure innovations and security practices.



Outcomes

The Azure Networking Design, Review, and Implementation service ensures a highly efficient, secure, and scalable network infrastructure within Azure. This tailored approach enhances application performance, supports business expansion, and maintains high standards of security and compliance, providing a solid foundation for future growth and technological advancement.



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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