

Evidence-backed Azure Virtual WAN (vWAN) Design 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 Virtual WAN (vWAN) Design and Implementation



Service Description:

The KPMG evidence-backed vWAN design and implementation service offers comprehensive Virtual WAN implementation, optimising global network connectivity and security across Azure and hybrid environments.

It simplifies network architecture, enhances performance, and provides seamless integration and management, ensuring a robust, scalable, and secure networking solution for your organisation.



Service Categories

- Virtual WAN Architecture Design
- Automated Routing and Configuration
- ExpressRoute Integration and Management
- Site-to-Site VPN Configuration
- Scalability and Performance Enhancement
- Global Network Connectivity Optimisation
- Network Security and Compliance Management
- Traffic Management and Load Balancing



Service Benefits

- Simplifies network management, significantly reducing administrative overhead and complexity.
- Offers scalable architecture, easily accommodating business growth and expansion.
- Enhances global connectivity.
- Improves application performance, ensuring high-quality user experiences.
- Reduces network latency, facilitating faster access to cloud resources.
- Lowers operational costs through optimised routing and bandwidth usage.
- Ensures compliance with industry regulations, reducing legal and financial risks.
- Accelerates deployment of network services, speeding up time to market.



Our Service Features

- Tailored Virtual WAN architecture design for optimal network performance.
- Hybrid integration, connecting Azure and on-premises networks efficiently.
- Enhanced global connectivity through automated routing and intelligent traffic management.
- Robust security measures, including encryption and compliance alignment.
- Scalable solutions to support growth and fluctuating network demands.
- ExpressRoute setup for private, high-speed connections to Azure.
- Site-to-Site VPN configuration for secure, reliable remote access.
- Expert guidance on network strategy

Our Approach

Our Azure certified experts work closely with your organisation to review, design and implement Virtual WAN for your Azure cloud environment. This approach enhances global reach, improves application performance, and ensure secure, scalable network integration.



Requirements

Designing and implementing Azure Virtual WAN involves creating a unified wide area network interface that integrates various networking, security, and routing functionalities to connect enterprise networks, branch offices, and the cloud seamlessly. It requires understanding global connectivity, optimising for high-performance routing, and ensuring robust security and scalability.



Activities

Network Infrastructure Analysis

- Assess current network topology and connectivity needs.
- Identify potential bottlenecks and areas for improvement
- Determine the optimal configuration for Azure vWAN to enhance connectivity and reduce complexity.

vWAN Architecture Design

- Design a vWAN architecture that consolidates multiple networking services.
- Configure routing to ensure efficient data flow and access between branches, data centres.
- Integrate advanced network security features like firewall and intrusion detection systems.

Deployment & Config

- Implement the vWAN setup.
- Automate connectivity and policy application across the network to ensure consistent implementation.
- Test and validate the entire network setup to confirm operational efficiency and security standards.

Performance & Scalability

- Monitor network performance and make adjustments.
- Scale network resources dynamically based on traffic patterns and growth
- Continuously evaluate and integrate new Azure networking features.



Outcomes

The Azure Virtual WAN design and implementation service provides a streamlined, high-performance network solution that simplifies global connectivity and management. By leveraging Azure vWAN, organisations benefit from reduced networking complexity, enhanced security, and improved overall network efficiency, which are critical for supporting widespread and diverse operational demands. This approach enables enterprises to easily scale and adapt their network infrastructure as their business needs evolve.



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: 4-6

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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