

# MATTHEW SMITH

Cloud Infrastructure & Network Architect

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## PROFESSIONAL PROFILE

Cloud infrastructure and network architect with 15+ years of experience designing, building, and optimising enterprise infrastructure across Azure, AWS, and GCP. Deep technical authority across security, networking, virtualisation, and containerisation with a proven track record of defining architectural standards, developing reference architectures, and leading the migration of legacy infrastructure to cloud native and hybrid platforms.

Combines hands on infrastructure architecture expertise with strong technical governance, compliance awareness (ISO 27001, PCI DSS environments), and a rare depth in enterprise networking from extensive work in the Cisco ecosystem. Over 1,000 personal code commits in 12 months across production repositories demonstrates a genuine approach to architecture: designing solutions that are implementable, not theoretical.

## KEY ACHIEVEMENTS

- Designed and deployed Azure Virtual WAN solutions with SD WAN connectivity, Secured Virtual Hubs, and Cisco Secure Firewall, delivering secure, scalable landing zone foundations with integrated network security and governance controls.
- Led the architectural design and implementation of Azure networking infrastructure including VNets, hub and spoke topologies, NSGs, peering, and ExpressRoute connectivity for enterprise hybrid cloud environments.
- Designed and implemented a multi tenant AWS hosting platform on Control Tower with tightly scoped IAM models, cost optimised resource design, and robust security controls, serving as a scalable reference architecture for managed service delivery.
- Architected a multi cloud platform (AWS/GCP) from the ground up using serverless architectures, containerised microservices, and Terraform IaC with CI/CD deployment via GitHub Actions.
- Served as technical design authority on multi million pound transformation programmes spanning Azure, AWS, Cisco SD WAN, and Software Defined Access, developing roadmaps and architectural blueprints for complex hybrid infrastructure.
- Defined and matured infrastructure technical governance across an organisation, establishing architectural standards for deployment, security, and operational management across cloud and on premises environments.

## CORE TECHNICAL SKILLS

<b>Azure</b>	Landing Zones, Virtual WAN (VWAN), Secured Virtual Hubs, VNets & Peering, NSGs, Azure Firewall, ExpressRoute, Azure Policy & Governance, Hub and Spoke Networking
<b>AWS</b>	Control Tower, Lambda, API Gateway, ECS, IAM, VPC, CloudFormation
<b>GCP</b>	Cloud Functions, Cloud Run
<b>Security</b>	Firewall Architecture, Infrastructure Hardening, IAM & Access Control, Network Security, ISO 27001, PCI DSS
<b>Networking</b>	Cisco SD WAN, Cisco Secure Firewall, Cisco ISE, BGP, Enterprise Routing & Switching, Software Defined Networking
<b>IaC &amp; DevOps</b>	Terraform, Ansible, GitHub Actions CI/CD, Docker, Containerised Microservices
<b>Infrastructure</b>	VMware, Windows Server, Linux, Storage Architecture, SQL Database Design, LDAP / Directory Services

## Development

TypeScript, Python, React, Next.js, Flutter, RESTful APIs

## PROFESSIONAL EXPERIENCE

### Technical Director

*MLR Networks Ltd | Sep 2020 – 2025*

- Designed and deployed Azure Virtual WAN solutions incorporating SD WAN connectivity, Secured Virtual Hubs, and Cisco Secure Firewall, leading end to end architectural design for secure, scalable, and cost efficient Azure infrastructure.
- Led the design and build of Azure networking foundations including VNets, NSGs, peering, and hub and spoke topologies aligned to Azure Landing Zone best practices.
- Structured Azure environments with governance controls, security baselines, and architectural standards to support workload onboarding and ongoing operational management.
- Served as technical design authority on multi million pound transformation programmes spanning Azure, AWS, and Cisco platforms, developing architectural roadmaps and blueprints.
- Designed and implemented a multi tenant AWS hosting platform on Control Tower with scoped IAM, cost optimised resources, and robust security controls.
- Led vendor liaison and cross architectural assurance, acting as single technical point of contact between the organisation and external suppliers.
- Built internal automation tooling on GCP to simplify processes and reduce operational overhead.

### Chief Technology Officer and Founder

*ArriveConnected | York, UK | 2020 – 2025*

- Founded and built a guest Wi Fi platform from concept to working product, designing the complete infrastructure on multi cloud AWS/GCP using serverless architectures, containerised microservices, and RESTful APIs.
- Designed complete infrastructure architecture and automated all deployment through Terraform IaC with CI/CD pipelines on GitHub Actions.
- Led the engineering effort while maintaining 1,000+ personal commits across production repositories in TypeScript, React, Next.js, and Flutter.
- Designed security controls including IAM models, network segmentation, and data protection for sensitive user data at volume.
- Wrote the business plan, go to market strategy, and developed reference architecture assets including infrastructure blueprints and security standards.

### Technical Architect

*MLR Networks Ltd | Jan 2013 – Sep 2020*

- Designed and implemented large scale enterprise infrastructure projects across networking, security, virtualisation, and storage domains, primarily within the Cisco ecosystem.
- Developed detailed architectural designs, component specifications, and infrastructure blueprints for enterprise customers with high availability and compliance requirements.
- Led migration strategies from legacy infrastructure to modern platforms, identifying opportunities for automation and cost reduction.
- Presented infrastructure architecture and solution strategy to C level audiences, translating technical complexity into business outcomes.

### IP Telephony Engineer

*MLR Networks Ltd | Jan 2012 – Jan 2013*

- Designed and supported Cisco Unified Communications infrastructure within a managed service environment. Contributed to pre sales technical consultancy.

### **Security Engineer / ISOC Support Engineer**

*Imerja Limited | Jul 2010 – Jan 2012*

- Operated within a 24/7 security operations environment supporting enterprise networking and security infrastructure across private and public sector organisations.

### **CERTIFICATIONS**

AWS Certified Cloud Practitioner – Amazon Web Services (Dec 2025 – Dec 2028)

CCNP Enterprise – Cisco (Jun 2018 – Feb 2027)

Cisco Certified Specialist: Enterprise SD WAN Implementation – Cisco (Mar 2023 – Feb 2027)

AWS Agentic AI Demonstrated – Amazon Web Services (Nov 2025)

AWS Serverless Demonstrated – Amazon Web Services (Nov 2025)

CCNP Routing and Switching – Cisco

CCNA Wireless – Cisco

### **EDUCATION**

#### **Bachelor's Degree, Internet and Network Communications**

*The University of Bolton | 2007 – 2010 | First Class Honours*