

Abhishek Sharma

Azure Hybrid Connectivity & Platform Architect |
Automation | Secure AI Platforms | DevOps



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Portfolio: asharma.cloud

Github: github.com/testcluedev/

Azure cloud and network architect with 20 years of experience designing secure, scalable and compliant infrastructure for regulated enterprises. Deep expertise in private Azure connectivity, including ExpressRoute, hub-and-spoke architectures, Private Link, Private Endpoints, DNS, Azure Firewall, routing and cross-platform integration. Hands-on with Azure Machine Learning workspaces, AI services, Terraform, ARM/Bicep, CI/CD and operational automation. Known for bridging cloud platform, networking, security and application teams to deliver production-safe architecture changes without disrupting business workloads.



HIGHLIGHTS



Azure Platform & Private Networking: Azure private connectivity, application delivery and platform integration across Private Link/DNS, ExpressRoute/VPN, NVA, AppGW/Front Door/WAF, APIM, Key Vault, AKS, and hub-and-spoke.



Enterprise Network, Security & Hybrid Infrastructure: Enterprise routing and switching; BGP, OSPF and route redistribution; Cisco Nexus and spine-leaf fabrics; SD-WAN, firewall clustering and segmentation across Palo Alto, Check Point and Fortinet; F5/NetScaler, secure web proxies, wireless controllers/APs, VMware, IBM Cloud and hybrid connectivity.



AI & Data Platforms: Azure Machine Learning workspaces, Azure AI Studio/Foundry exposure, Azure OpenAI endpoints, RAG, AI Search concepts, Data Lake and ADF



Architecture & Governance: Landing zones, subscription and resource-group strategy, RBAC, policy, EntraID, security controls, compliance, platform integration and change sequencing



Automation & Delivery: Terraform, Bicep, ARM, Azure DevOps, GitHub Actions, Jenkins, Ansible, Python, PowerShell and Bash



Observability & Operations: Azure Monitor, Log Analytics, KQL, workbooks, incident troubleshooting, capacity planning, DR and operational readiness



Cross-Functional Leadership: Enterprise stakeholder management across cloud, networking, security, platform, DevOps, data and application teams



FULL-TIME PROFESSIONAL EXPERIENCE

2023-01 - **Associate Director - Cloud Connectivity**

Current

Novartis, Prague

- Lead a team responsible for Azure cloud connectivity, network architecture, operational excellence and engineering delivery across a large regulated enterprise.
- Provide architecture leadership for ExpressRoute, VPN Gateway, Private Link, Private Endpoints, Private DNS, Azure Firewall, Application Gateway and hybrid connectivity.
- Coordinate cloud platform, networking, security, firewall, DevOps and application teams to resolve cross-service connectivity constraints and introduce production-safe design changes.
- Drive Terraform, CI/CD and operational automation initiatives for repeatable deployment, policy alignment and engineering efficiency.
- Lead enterprise AI enablement initiatives, including RAG solutions, AI knowledge assistants and operational intelligence using Azure AI services, Log Analytics and enterprise documentation.
- Manage platform scalability, governance, cost and roadmap decisions while ensuring alignment with compliance and security requirements.

2022-03 - **Architect Specialist - DevOps and Kubernetes**

TietoEvry, Ostrava

- Designed Azure and Kubernetes infrastructure for application migration, including AKS clusters, networking, ingress, secrets and container security.
- Created Terraform templates and CI/CD pipelines for Azure and Kubernetes environments; used ARM, Bicep and Ansible AWX for deployment and day-two configuration.
- Advised delivery teams on public cloud connectivity, ExpressRoute, VNet peering and secure integration patterns in regulated environments.

2020-01 - **Network Architect**

2020-12

IBM, Brno

- Designed secure Azure and IBM Cloud connectivity, governance standards and migration patterns for enterprise customers.
- Led automation using shell and supported complex architecture, escalation and production troubleshooting activities.
- Created cloud adoption standards and contributed to banking-sector security, audit and compliance models.

2018-10 - **Senior Network Specialist**

2019-12

IBM, Brno

- Delivered Azure and AWS firewall, load-balancing, cloud connectivity and migration solutions.
- Automated network operations using Linux, Bash, Python and Ansible and supported disaster-recovery and large datacenter environments.

2015-03 - **SME and Client Technical Leader**

2018-09 IBM, Brno

- Led customer and engineering teams through complex infrastructure delivery, escalations, technical standards and production troubleshooting.

2010-05 - **IT Specialist / Boarding Architect and Delivery Engineer**

2013-01 AT&T, Bangalore and Brno

- Delivered enterprise onboarding, firewalls, VPNs, routing, BGP/OSPF and global hub connectivity.

2008-01 - **Level III Network Support Engineer**

2010-04 IBM, Brno

- Supported a global network of about 200 sites across routing, switching, firewalls, load balancers and incident/change management.

2006-11 - **Network Engineer / Resident Network Engineer**

2007-12 AztecSoft and Datacraft, Pune

- Designed and operated multi-vendor networks for approximately 3,000 users.



SELECTED AI & CLOUD PROJECTS

- **AI File Analyzer:** Built a RAG-based Python application using LangChain, embeddings and Chroma for file/log analysis and grounded responses.
- **Multi-Agent Assistant:** Developed model-routing logic across hosted and local LLMs with text and voice interfaces.
- **Azure AI and ML Experiments:** Worked with Azure ML workspaces, OpenAI endpoints, Python data preparation and model evaluation workflows.
- **Operational Intelligence Concepts:** Designed AI-assisted troubleshooting and knowledge-management patterns using logs, runbooks and cross-domain telemetry.



INDEPENDENT CONSULTING AND SPECIALIST ENGAGEMENTS

Selected independent engagements grouped by period for clarity.

- **2011-2015:** Remote network and security consulting covering Cisco routing, ASA firewalls, VPNs, monitoring, documentation and training.
- **2016-2021:** Azure, AWS, AKS, Terraform, CI/CD, load balancing and automation engagements for international customers; included NGINX, HAProxy, F5, NetScaler, PowerShell and Python.
- **2021-2023:** Enterprise Azure consulting for pharmaceutical, manufacturing and energy customers; delivered ExpressRoute, VPN, Front Door, API Management, Data Lake, ADF, OpenAI endpoint integration, backup and IaC.
- **2023:** GitHub Enterprise migration specialist; automated repository and pipeline migration, installed GitHub Enterprise Server, enabled Advanced Security and built Python-based migration tooling.



EDUCATION

2006-01

MSc: Network Systems

University of Sunderland - United Kingdom

2004-01

BE: Electronics and Communication Engineering

University Institute of Technology (RGPV) - India



SELECTED CERTIFICATIONS

- Microsoft Certified: Azure Solutions Architect Expert (AZ-305)
- Microsoft Certified: Azure Network Engineer Associate (AZ-700)
- Microsoft Certified: Azure Administrator Associate (AZ-104)
- AWS Certified Solutions Architect - Associate (Previously held)
- Cisco Certified Network Professional — Enterprise
- Cisco Certified Specialist — Enterprise Advanced Infrastructure
- Certified Kubernetes Administrator (Previously held)
- Python for Data Science, AI & Development
- IBM Generative AI Engineering Professional (ongoing)
- 25+ other Coursera certifications