

MOHAMED A. GESMALLA

Senior Network & Cloud Engineer

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PROFESSIONAL SUMMARY

Senior Network & Cloud Engineer with **13+ years of experience** designing, deploying, and securing **enterprise-scale network and cloud infrastructures** across **on-premises, hybrid, and multi-cloud environments**. Proven expertise in **Cloud Networking, Network Architecture, Security Architecture, Automation, and Platform Engineering**, with hands-on experience across **AWS, Azure, GCP, Kubernetes, OpenShift, Terraform, and Ansible**. Recognized for leading large-scale infrastructure migrations, improving reliability and availability, and aligning technical solutions with business objectives.

CORE SKILLS

- Network Architecture & Cloud Networking
 - Cloud Architecture (AWS, Azure, GCP)
 - Hybrid & Multi-Cloud Networking
 - Data Center Networking
 - Routing & Switching (BGP, OSPF, EIGRP, IS-IS, MPLS)
 - Firewall & Network Security (Palo Alto, FortiGate, Cisco Firepower)
 - SD-WAN (Cisco, Fortinet, VMware)
 - Wireless Networks (Aruba, Cisco)
 - Kubernetes, GKE, EKS, OpenShift & Container Networking
 - Infrastructure as Code (Terraform, Ansible)
 - CI/CD & Automation
 - Load Balancing (F5, NGINX)
 - Monitoring & Observability
 - High Availability & Disaster Recovery
 - Network Automation & Scripting (Python, Bash)
 - ITIL & Change Management
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TECHNICAL SKILLS

Networking

- Cisco Catalyst 9K, Nexus 9K, ASR, ISR, Meraki Cloud.
- Aruba switches, wireless, cloud central.
- Juniper EX, QFX.
- Fortinet FortiGate, FortiManager, FortiSwitches, FortiAps.
- VLAN, VXLAN, VTP, MSTP, RSTP, LACP
- BGP, OSPF, VRF, MPLS
- IPsec VPN, SSL VPN, GRE

Cloud Platforms

- **GCP:** VPC, Compute Engine, Cloud Load Balancing, Cloud VPN, Cloud Router, Interconnect
- **AWS:** VPC, EC2, ELB, Route 53, Transit Gateway
- **Azure:** Virtual Network, Azure Firewall, ExpressRoute
- Hybrid Connectivity (Site-to-Site VPN, Direct Connect, ExpressRoute)

Security

- Palo Alto, FortiGate, Cisco Firepower
- Network Segmentation & Zero Trust Architecture
- IDS/IPS, NAC (Cisco ISE)

Containers & DevOps

- Kubernetes, OpenShift, Docker, Helm
- Terraform, Ansible
- Git, GitHub Actions (CI/CD)
- Linux

Monitoring & Tools

- Prometheus, Grafana
- SolarWinds, Zabbix
- Wireshark

PROFESSIONAL EXPERIENCE

Senior Network & Cloud Engineer

BMB Group Ltd – Riyadh, Saudi Arabia

Dec 2022 – Present

- Designed and deployed **hybrid cloud architectures** integrating on-premises data centers with **AWS, Azure, and GCP**.
 - Led **cloud and network migration projects**, moving legacy infrastructure to **cloud-native and containerized platforms** using Kubernetes and OpenShift.
 - Architected **high-availability and disaster recovery solutions**, achieving **99.99% service uptime** across mission-critical environments.
 - Led end-to-end **network project implementations** for enterprise customers.
 - Automated infrastructure provisioning using **Terraform and Ansible**, reducing deployment time by **approximately 60%**.
 - Deployed and managed **enterprise firewall platforms** (Palo Alto, FortiGate), enforcing security best practices and segmentation.
 - Provided **24/7 operational support** for production environments.
 - Mentored junior engineers and reviewed network designs, architecture documents, and change requests.
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IT Manager

Al-Takhses Medical Group – Hail, Saudi Arabia

Feb 2015 – Dec 2022

- Designed and implemented **campus and data center networks** using Cisco, Aruba, and Fortinet technologies.
 - Managed **network security infrastructure**, including firewalls, VPNs, identity services, and endpoint protection.
 - Administered **site-to-site and remote-access VPN connectivity** for multiple branches.
 - Managed **VoIP communication systems** and hosted email services for organization-wide users.
 - Performed advanced **network troubleshooting, root cause analysis, and performance optimization**.
 - Integrated **monitoring and alerting solutions** (SolarWinds, Zabbix), improving visibility and incident response.
 - Supported **enterprise cloud migration initiatives**.
 - Managed ERP systems, user access control, and permissions.
 - Oversaw **CCTV systems**, recording, monitoring, and backup solutions.
 - Managed all **physical and virtual server infrastructure**.
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Network Engineer

Sudan University – Khartoum, Sudan

Sep 2013 – Sep 2014

- Configured and maintained **routing and switching infrastructure**.
 - Managed virtualization platforms and Linux server environments.
 - Administered **DNS, DHCP, FTP, Proxy, Web, and Email services**.
 - Implemented IP addressing schemes and maintained network documentation.
 - Led **IPv6 protocol implementation**.
 - Provided **L2/L3 troubleshooting** and on-call support.
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Network Trainer

Zoal Tech – Khartoum, Sudan

Aug 2012 – Aug 2013

- Delivered **Cisco CCNA Routing & Switching** training.
 - Delivered **Cisco CCNA Security** training.
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KEY PROJECTS

- **Enterprise Data Center Modernization:** Migrated legacy infrastructure to a **hybrid cloud architecture** using Kubernetes and OpenShift.
 - **Multi-Region Cloud Connectivity:** Designed secure inter-region connectivity using **BGP, VPNs, and cloud transit gateways**.
 - **Network Migration Programs:** Led large-scale migrations for **private, government, and industrial organizations**.
 - **Network Automation Initiative:** Developed reusable **Terraform modules and Ansible playbooks** for standardized infrastructure deployment.
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CERTIFICATIONS

- **Google** Cloud Certified Professional Cloud Architect
- **Google** Cloud Certified Professional Cloud Security Engineer
- **Cisco** Certified Network Professional (CCNP) – Enterprise
- **Cisco** Certified Network Professional (CCNP) – Service Provider
- **Cisco** Certified Security Architecture (Series 700)
- **Cisco** Certified Network Associate (CCNA)
- **VMware** SD-WAN Master Specialist
- **MEF** SD-WAN SDCP

EDUCATION

Diploma in Information Technology

University of Sudan – Sudan

LANGUAGES

- Arabic – Native
 - English – Professional
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ADDITIONAL INFORMATION

- Available for on-call and critical support rotations
- Strong documentation (LLD, HLD, AS BUILT) and stakeholder communication skills
- Experience across **enterprise and service provider environments**