

MUHAMMAD MUAZ BHUTTA

NETWORK ENGINEER | CISCO • FIREWALLS • VPN INFRASTRUCTURE

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SUMMARY

Network Engineer with 3+ years of hands-on experience in enterprise networking — routing (OSPF, BGP), NAT, VLANs, subnetting, and WAN configuration on Cisco devices — and firewall administration across FortiGate, Cisco, and pfSense. Designs and operates VPN infrastructure at fleet scale (WireGuard, OpenVPN) across 4 regions: multi-region load balancing, automated peer provisioning, and real-time traffic monitoring. Strong Linux server administration (Ubuntu, AlmaLinux) with Python/Bash network automation. CCNA 200-301 certified. Degree verified in Saudi Arabia via Mosadaqa. Transferable Iqama — available immediately.

TECHNICAL SKILLS

Routing & Switching: Cisco IOS devices, OSPF, BGP, VLANs & trunking, NAT/PAT, IPv4 subnetting, WAN configuration, DNS, DHCP, TCP/IP

Firewalls & Security: FortiGate, Cisco firewalls, pfSense, access control & hardening, TLS certificates, token-based authentication

VPN Infrastructure: WireGuard, OpenVPN, Outline, site-to-site & remote access, multi-region load balancing, automated peer provisioning

Systems & Monitoring: Linux (Ubuntu, AlmaLinux), systemd services, Caddy, Nginx, Grafana, Prometheus, real-time dashboards

Automation & Tools: Python, Bash, Ansible, REST APIs (Flask), Docker, Git, GitLab CI, Jenkins

PROFESSIONAL EXPERIENCE

Associate NetDevOps Engineer (Network & Infrastructure) | GoCloud Pvt Ltd (remote)

2023 – 2026

- Configured and managed enterprise networking on Cisco devices: NAT, VLANs, subnetting, and WAN links
- Administered FortiGate, Cisco, and pfSense firewalls: security policies, access control, and hardening
- Deployed and managed VPN infrastructure (WireGuard, OpenVPN, Outline) for distributed teams and clients across 4 regions (USA, UK, Singapore, Germany), handling thousands of concurrent connections
- Automated peer provisioning, stale-peer cleanup, and traffic monitoring with Python/Bash tooling, eliminating manual VPN fleet administration
- Administered Ubuntu/AlmaLinux servers: systemd services, TLS, reverse proxying (Caddy/Nginx), log analysis
- Built CI/CD pipelines (Jenkins, GitLab CI) and containerized network tooling with Docker

KEY PROJECTS

OpenVPN Multi-Region Load Balancer — github.com/muazbhutta/Openvpn_Loadbalancer

Python (asyncio) load balancer distributing VPN client traffic across servers in 4 regions — handles thousands of UDP connections in one process with round-robin scheduling, session stickiness, and automatic health checks that remove failed servers and restore them on recovery. Zero external dependencies.

WG-API — WireGuard Peer Provisioning REST API — github.com/muazbhutta/WG-API

Token-authenticated REST API that provisions VPN peers on demand: fresh keypair, next free IP scanned live from wg0.conf, and instant activation with wg set — no service restart or downtime. Runs as a memory-limited systemd service.

Real-Time VPN Monitoring Dashboard — github.com/muazbhutta/openvpn-dashboard

Flask + Server-Sent Events dashboard streaming live client connections, per-client bandwidth, and system health with zero-refresh updates and inotify-based log watching; deployed as a hardened systemd service.

Automated WireGuard Peer Cleanup — github.com/muazbhutta/Wireguard_Config_Deletion

Python automation that checks every peer's last handshake, removes peers inactive for over an hour, deletes their client configs, and persists changes — runs as a root cron job with full action logging.

EDUCATION

BS Computer Science | MNS University of Agriculture, Multan — Computer Networks & Cloud Computing

2020 – 2024

- Degree verified & authenticated in Saudi Arabia via Mosadaqa (Ministry of Education) — Request No. BC2026250361: "Certificate is Correct as Confirmed"

CERTIFICATIONS & TRAINING

- CCNA 200-301 — Cisco Certified Network Associate
- Microsoft Azure Fundamentals (AZ-900) — training course with hands-on labs (Udemy)

Languages: Urdu (Native) | English (Professional working proficiency) | Arabic (Basic)