DULANTHA WEERASEKARA

Network Security Engineer | Network Security Specialist | Penetration Tester

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PROFESSIONAL SUMMARY

Network Security Engineer with 6+ years of experience in enterprise network security, firewall administration, and secure network infrastructure management. Skilled in designing, implementing, and managing **FortiGate and Cisco ASA firewalls**, VPN technologies, and secure LAN/WAN environments. Experienced in firewall policy management, NAT configuration, VPN deployment, and network segmentation in high-availability environments. Strong understanding of TCP/IP, routing protocols, and security best practices with certifications including **CCNP, CompTIA Security+, PenTest+, and HTB CPTS**. Adept at maintaining secure, resilient, and compliant network environments.

TECHNICAL SKILL

- **Networking:** TCP/IP, LAN/WAN, VPN, VLANs, Routing & Switching, DHCP, DNS, Subnetting
- **Firewall & Security:** FortiGate Firewall, Cisco ASA, Firewall Policy Management, NAT, IPsec VPN, SSL VPN, Network Segmentation, Access Control, Security Hardening
- **Security & Networking Platforms:** FortiGate Firewall, Cisco ASA Firewall, Nmap, Nessus, Wireshark, Burp Suite, Metasploit
- **OS & Systems**: Windows Server, Linux (Kali, Ubuntu), Active Directory

WORK EXPERIENCE

Network Security Specialist – Northtelecom LLC, Dubai **04/2022 – 12/2025**

- Administered and maintained FortiGate and Cisco ASA firewalls, managing security policies, NAT rules, and access control to protect enterprise networks.
- Implemented and optimized site-to-site IPsec VPN and SSL VPN solutions, providing secure remote connectivity for 100+ users.
- Performed firewall rule analysis, policy optimization, and security hardening, improving network security posture and reducing unauthorized access attempts.
- Configured network segmentation using VLANs and firewall policies to isolate critical systems and improve internal security.
- Monitored firewall logs and network traffic using Wireshark, and security monitoring platforms to detect anomalies and potential threats.
- Conducted security audits and firewall policy reviews to ensure compliance with security standards and organizational policies.
- Implemented least privilege firewall policies and traffic filtering to enforce network security controls.
- Troubleshot firewall, routing, and VPN connectivity issues across LAN/WAN environments, improving network uptime and service reliability.

Associate Network Engineer – MillenniumIT ESP, Sri Lanka **07/2019 – 04/2022**

- Configured and maintained enterprise network infrastructure including switches, routers, and firewall appliances supporting 200+ users.
- Assisted in infrastructure hardening and patch management, reducing security vulnerabilities across network devices.
- Conducted traffic analysis using Wireshark and supported backup & disaster recovery operations to ensure business continuity.
- Troubleshot LAN/WAN connectivity issues, reducing network downtime and improving overall service reliability.

PROJECTS & PRACTICAL EXPERIENCE

TryHackMe & Hack The Box Labs:

- Completed the Junior Penetration Tester Path and participated in real-world network and AD exploitation simulations. Practiced both offensive and blue-team methodologies.

Home Lab Deployment:

- Designed a virtual environment using VMware/VirtualBox to test routing, firewall policies, and penetration testing scenarios.

Automated Network Configuration:

- Final-year academic project to automate secure network deployment using Java, improving setup efficiency by 50%.

CTF & Red Team Exploration:

- Participated in multiple Capture the Flag competitions; explored forensic investigation and privilege escalation challenges.

EDUCATION

- **BSc (Hons) Computer Science (Networking & Network Security)** – Kingston University, UK (2020-2021)
- **Pearson BTEC HND in Computing (Network Engineering)** – Esoft Metro Campus, Sri Lanka (2018-2020)
- **Diploma in Software Engineering** – Java Institute, Sri Lanka (2016-2018)

CERTIFICATIONS

- **HTB Certified Penetration Testing Specialist (CPTS)** – 2026
- **CompTIA PenTest+ (PT0-002)** – 2025
- **CompTIA Security+ (SY0-701)** – 2024
- **Cisco Certified Specialist - Enterprise Core (CCNP)** – 2021
- **Cisco Certified Network Associate (CCNA)** – 2021
- **Fortinet NSE Level 1, Level 2, and Level 3 - Network Security Associate** – 2023
- **Peplink Certified Engineer** – 2024

PROFESSIONAL DEVELOPMENT

- Ethical Hacking & Penetration Testing self-study
- Red Teaming & Digital Forensics exploration

ADDITIONAL INFORMATION

- Actively practice penetration testing labs on Hack The Box and TryHackMe, focusing on web exploitation, privilege escalation, and Active Directory attacks.
- Open to relocation and remote cybersecurity opportunities.