

Mamatha Mallampeta

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PROFESSIONAL SUMMARY

Network Engineer with 5+ years of experience designing, implementing, securing, and troubleshooting enterprise network infrastructures across routing, switching, firewalls, VPNs, wireless, load balancing, and cloud networking. Hands-on experience with Cisco, Palo Alto, Check Point, SonicWall, Aruba, F5, Cisco ISE, AWS, and network monitoring platforms. Strong knowledge of TCP/IP, VLANs, STP, OSPF, EIGRP, BGP, DNS, DHCP, NAT, IPsec, SSL/TLS, ACLs, authentication, and access control. Experienced in firewall migrations, VPN rule conversions, network access control, incident resolution, infrastructure upgrades, and hybrid cloud connectivity.

SKILLS

- **Network Security:** Palo Alto, Cisco ASA, Check Point, SonicWall, Cisco ISE, ACLs, NAT, IDS/IPS, IPsec, SSL/TLS, VPN, RADIUS, MFA, security policies, access control
- **Routing & Switching:** OSPF, EIGRP, BGP, RIP, IS-IS, HSRP, VRRP, STP, RSTP, MSTP, PVST, VTP, 802.1Q, Inter-VLAN Routing, VPC, VSS, VXLAN, LACP
- **Network Infrastructure:** Cisco Catalyst, Cisco Nexus, Cisco routers, ASR 1000X, Aruba wireless, LAN/WAN, TCP/IP, IPv4/IPv6, subnetting, trunking, VLAN security
- **Cloud Networking:** AWS EC2, VPC, VPC Peering, Direct Connect, site-to-site VPN, hybrid cloud connectivity, cloud load balancing
- **Load Balancing:** F5 LTM, F5 GTM, local/global traffic management, application-specific load balancing
- **Network Management:** SolarWinds NPM/NCM/IPAM, Wireshark, Nagios, Infoblox, SNMP, DNS, DHCP, monitoring, packet capture, performance analysis
- **Systems & Automation:** Linux, Windows Server, Active Directory, Cisco IOS, Python scripting, GNS3, VMware, TFTP-- , incident/ticket management, SLA support
- **Programming:** Python, C++

PROFESSIONAL EXPERIENCE

Morgan Stanley

Jun 2025 - Present

Network Engineer

USA

- Led network security infrastructure activities including migration from Check Point firewall clusters to Cisco ASA 5580 firewalls in a high-availability failover pair, improving security-platform standardization and operational resilience.
- Converted and implemented Check Point VPN rules on Cisco ASA, supporting IPsec connectivity, security policies, NAT, ACLs, and troubleshooting for secure remote and site-to-site communications.
- Configured and managed OSPF, EIGRP, and BGP across routers and Layer 3 switches; optimized routing tables and resolved complex TCP/IP connectivity issues across enterprise network environments.
- Administered Cisco LAN switching environments including VLANs, trunking, VTP, VLAN security, STP, RSTP, and MSTP; investigated spanning-tree issues and restored stable Layer 2 connectivity.
- Implemented network access controls using Cisco ISE and RADIUS/MFA concepts to strengthen authentication and prevent unauthorized access, while troubleshooting access and connectivity issues.
- Supported Aruba wireless access points and WLAN controller connectivity, F5 LTM/GTM load balancers, and enterprise traffic-management services to maintain reliable application and user connectivity.
- Managed AWS networking components including EC2, VPCs, VPC peering, Direct Connect, VPN, load balancing, and IPsec site-to-site tunnels between AWS VPCs and on-premises network devices.
- Performed network monitoring, packet capture, incident troubleshooting, IOS upgrades, software/licensing updates, Linux troubleshooting, and SLA-driven service-ticket resolution using Wireshark, SolarWinds, and related tools.

Dell Technologies

Aug 2021 - Nov 2023

Network Engineer

India

- Configured, monitored, and maintained enterprise switches, routers, firewalls, and wireless access points while supporting LAN/WAN availability, performance, security, and day-to-day network operations.
- Configured and troubleshot RIP, OSPF, and EIGRP on Cisco routers and Catalyst switches, including routing-table maintenance, subnetting, Inter-VLAN routing, and connectivity troubleshooting across locations.
- Implemented Cisco switching technologies including VLANs, trunking, STP, port security, MAC filtering, and secure wireless access to improve segmentation, stability, and protection of internal network resources.
- Managed Palo Alto firewall security policies using application-aware APP-ID concepts, NAT policies, and documented firewall configurations; administered site-to-site VPNs and resolved VPN-related incidents.
- Supported Cisco and Avaya VoIP environments, including Call Manager and VoIP gateway configuration, while maintaining DNS and DHCP services for reliable address assignment and network communication.
- Used SolarWinds NPM/NCM/IPAM and Wireshark for proactive monitoring, packet analysis, performance troubleshooting, and incident resolution; also used Python scripts for customized network alerts and monitoring integration.

Hexaware Technologies

Jan 2020 - Jul 2021

Network Engineer

India

- Supported network operations for switches, routers, firewalls, and wireless access points, assisting with device configuration, connectivity troubleshooting, and routine infrastructure maintenance.

- Assisted with IP addressing, subnetting, VLAN configuration, trunking, and Inter-VLAN routing while troubleshooting LAN/WAN connectivity issues and maintaining reliable user access.
- Supported routing and switching environments using OSPF, EIGRP, RIP, STP, and related Layer 2/Layer 3 technologies, helping resolve routing and network availability issues.
- Assisted with firewall, NAT, ACL, and VPN administration, including security-policy changes and troubleshooting of site-to-site and remote connectivity problems.
- Performed network monitoring and packet analysis using tools such as SolarWinds and Wireshark, documented incidents, escalated complex issues, and supported SLA-based ticket resolution.
- Maintained network documentation and supported DNS, DHCP, Windows/Linux connectivity, and basic infrastructure administration to improve operational consistency and troubleshooting efficiency.

PROJECTS

Enterprise Firewall & VPN Migration

- Migrated Check Point firewall functionality to Cisco ASA 5580 failover architecture, aligning firewall configuration with high-availability and enterprise security requirements.
- Converted VPN rules and supported IPsec connectivity, including ACLs, NAT, authentication, and policy validation for secure network communications.
- Troubleshot migration-related connectivity issues using packet analysis, routing validation, and firewall policy review to reduce service disruption during cutover activities.
- Documented security-policy changes, connectivity requirements, and operational procedures to support ongoing administration and incident resolution.

Hybrid AWS Network Connectivity

- Supported AWS VPC networking across EC2 workloads, VPC peering, Direct Connect, VPN, and load-balancing components for hybrid cloud connectivity.
- Established IPsec site-to-site VPN tunnels between AWS VPCs and on-premises network devices to provide secure connectivity between environments.
- Validated routing, security policies, and network paths across cloud and on-premises infrastructure while troubleshooting TCP/IP connectivity issues.
- Applied network monitoring and troubleshooting practices to improve visibility into hybrid connectivity, availability, and performance.

Enterprise Network Security & Access Control

- Implemented and maintained network security controls using Palo Alto, Cisco ASA, SonicWall, Cisco ISE, ACLs, NAT, VPNs, and authentication technologies.
- Applied Palo Alto APP-ID concepts to security policies and maintained policy documentation to improve application-aware traffic control and administrative consistency.
- Supported RADIUS/MFA-based access controls and Cisco ISE capabilities to strengthen authentication and reduce unauthorized network access.
- Used Wireshark, SolarWinds, and structured troubleshooting to investigate security and connectivity incidents and restore service within SLA expectations.

Network Infrastructure & Traffic Optimization

- Managed Cisco routing and switching technologies including OSPF, EIGRP, BGP, VLANs, VTP, STP/RSTP/MSTP, HSRP/VRRP, and Inter-VLAN routing.
- Supported F5 LTM/GTM load balancing for local and global traffic management, including application-specific traffic distribution and availability requirements.
- Supported Aruba wireless infrastructure and WLAN controller connectivity while troubleshooting access, routing, and Layer 2/Layer 3 communication issues.
- Used SolarWinds, Wireshark, SNMP, and Python-based alerting to improve network visibility, identify performance issues, and support proactive operational response.

EDUCATION

DePaul University

Master of Science, Computer Science

Jan 2024 - Dec 2025

Chicago, Illinois

Sreenidhi Institute of Science and Technology

Bachelor of Technology, Information Technology

Jun 2017 - Jul 2021

Hyderabad, India

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA)