Akhil Devaraju

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SUMMARY:

- Over 4+ years of experience in managing and optimizing network protocols (TCP/IP, UDP, ICMP, DHCP, DNS, FTP) to ensure high-performance LAN/WAN operations.
- Experienced with network hardware and software management, specializing in Cisco routers, switches, firewalls, wireless access points, Cisco ACI, and high-end Cisco network equipment.
- Skilled in switching and routing technologies such as VLAN, EtherChannel, and protocols like OSPF, EIGRP, BGP, and RIP.
- Knowledgeable in network protocols and network security technologies, including DNS, DHCP, HTTP, SMTP, FTP, access control, firewalls, IDS/IPS, and Cisco ACS.
- Hands-on expertise with firewall and VPN technologies such as ASA Firewalls, IPsec & SSL VPNs, Cisco NAC, Check Point, and access control tools like TACACS+ and RADIUS.
- Extensive experience in network monitoring and analysis using tools like Wireshark and SolarWinds to ensure network health and performance.
- Skilled in cloud platforms and containerization (AWS, Azure, Docker, Kubernetes) and automation scripting with Python, Ansible, and UNIX shell scripting.
- Strong network troubleshooting skills for complex LAN/WAN environments and multi-vendor hardware, with comprehensive experience across Windows, Linux, and UNIX operating systems.

SKILLS:

- **Networking Fundamentals:** TCP/IP, UDP, LAN/WAN, DHCP, DNS, SNMP, IPv4/IPv6, WLAN.
- **Network Hardware and Software:** Cisco routers, switches, firewalls, wireless access points, network management software, Cisco ACI, Cisco Wireless Administration, Cisco High-End Routers, Cisco Switches.
- **Switching Technologies:** VLAN, EtherChannel.
- **Routing Protocols:** OSPF, EIGRP, BGP, RIP
- **Network Protocols:** DNS, DHCP, HTTP, SMTP, FTP
- **Network Monitoring & Analysis:** Wireshark, SolarWinds
- **Network Security Technologies:** Access Control, Authentication, Encryption, Firewalls, IDS/IP, Cisco ACS
- **Firewall and VPN Technologies:** ASA Firewalls, IPsec & SSL VPNs, Cisco NAC, Cisco ACS, Check Point
- **AAA and Access Control:** TACACS+, RADIUS, Cisco ACS, Cisco ISE
- **Network Environments:** Cisco LAN/WAN, SD-WAN, Metro Ethernet, Frame Relay
- **Cloud Platforms & Containerization:** AWS, Azure, Docker, Kubernetes
- **Programming and Scripting:** Python scripting, Ansible for automation, UNIX shell scripting
- **Version Control & Documentation:** Git, Subversion, Network Diagrams, SOPs, Incident Reports
- **Operating Systems:** Windows, Linux, UNIX

PROFESSIONAL EXPERIENCE:

Verizon Wireless Systems   **Jun 2023 – Present**
Network Engineer

- Architecting and deploying comprehensive IT security frameworks and advanced e-commerce solutions, ensuring robust data protection and compliance with industry standards.
- Configured and managed network infrastructure using Cisco routers, switches, and firewalls, optimizing network performance for high-demand environments.
- Implemented VLAN, EtherChannel, and routing protocols (OSPF, EIGRP, BGP, RIP) to enhance network segmentation, redundancy, and efficiency.
- Developed and maintained secure network access using TACACS+, RADIUS, and Cisco ISE, streamlining AAA configurations and enhancing access control.
- Conducted in-depth network monitoring and troubleshooting using Wireshark and SolarWinds to diagnose and resolve LAN/WAN issues in multi-vendor environments.
- Deployed and managed cloud infrastructure on AWS and Azure, using Docker and Kubernetes for containerization and orchestration.
- Configuring Layer 2 network infrastructure using advanced protocols such as VLAN, STP, VTP, DTP, and link aggregation techniques to optimize network performance and security.
- Integrating and optimizing network monitoring and analysis tools, including Cisco Prime, HP OpenView, and Wireshark, for real-time diagnostics and comprehensive network visibility.
- Administering advanced switching technologies, such as VLANs, port security, trunking, STP, and inter-VLAN routing, with 802.1x authentication to enforce secure access in data center environments.
- Overseeing Windows server infrastructure, including Active Directory, DNS, and Exchange, to ensure secure and streamlined network operations.
- Conducting ongoing capacity planning and delivering strategic recommendations for infrastructure scalability and performance optimization.

Sundaram Finance   **Jan 2018 - Aug 2021**

Network Engineer

- Implemented, supported, and maintained 24x7 network services to ensure high availability and performance for critical operations.
- Automated network and system tasks with Python, Ansible, and UNIX shell scripting, reducing manual workload and improving efficiency in routine operations.
- Secured network perimeter and data traffic with ASA Firewalls, IPsec and SSL VPNs, IDS/IPS, and Check Point firewalls, ensuring robust network security and compliance.
- Prepared and maintained comprehensive network documentation, including network diagrams, SOPs, and incident reports, supporting efficient operations and team collaboration.
- Applied advanced knowledge of VLSM, STP, VTP, and VLAN trunking for optimal network segmentation and routing efficiency.
- Utilized Palo Alto Next-Generation Firewall features, including URL filtering, antivirus, IPsec and SSL VPNs, and IPS, to enhance security posture and streamline log management.
- Managed AWS infrastructure, including EC2 instances, VPCs, VPC Peering, Direct Connect, VPNs, and advanced load balancing to support scalable cloud networking.
- Configured and installed LAN switches, wireless infrastructure, and cabling for seamless connectivity across all network access points.
- Deployed and configured Cisco ASR 1000, 7000, and 9000 series routers to strengthen core network capabilities and handle complex routing demands.
- Troubleshot Layer 1/2/3 network issues, including switching, routing, WAN links, and hardware, collaborating with vendors to resolve critical connectivity challenges.
- Administered switching technologies by managing VLANs, inter-VLAN routing, trunking, and port aggregation to optimize network traffic and resource allocation.
- Planned, coordinated, and supported LAN/WAN hardware and software integrations, diagnosed network failures, and implemented timely resolutions.

EDUCATION:

- **Masters of computer science in software engineering**
  Oklahoma Christian University

- **Bachelors of Computer Science**
  CMR Technical campus (JNTU Hyderabad)

CERTIFICATION:

- **Cisco Certified Network Associate**