

SAIKUMAR REDDY BANDELA

+1 (630) 392-6382 • reddysaikumar@gmail.com • Naperville, IL 60540

PROFESSIONAL SUMMARY

Results-driven Network Engineer with 4+ years of progressive hands-on experience designing, implementing, and optimizing enterprise-grade network infrastructure. Proven expertise in Cisco routing & switching, SD-WAN, cloud networking (AWS/Azure), and network automation using Python and Ansible. Adept at supporting large-scale ISP and enterprise environments with a strong focus on network security, performance monitoring, and operational efficiency. Holds CCNA certification with a Master's degree in Computer Science. Seeking to leverage advanced networking skills and a continuous improvement mindset to drive network modernization and reliability at scale.

TECHNICAL SKILLS

Routing & Switching: OSPF, BGP, EIGRP, RIP, STP/RSTP, VTP, VLAN, EtherChannel, HSRP, VRRP

SD-WAN / WAN: Cisco Viptela SD-WAN, VMware VeloCloud, MPLS, Metro Ethernet, DMVPN

Network Security: Cisco ASA, Palo Alto NGFW, Zero Trust Architecture, ACL, NAT/PAT, VPN (IPSec/SSL), 802.1X

Cloud Networking: AWS VPC, AWS Transit Gateway, Azure Virtual Network, Cloud WAN, Direct Connect, ExpressRoute

Automation & DevOps: Python (Netmiko, Nornir, NAPALM), Ansible, Terraform, Git/GitHub, Jenkins CI/CD

Monitoring & Operations: SolarWinds, PRTG, Wireshark, Cisco ThousandEyes, Splunk, Cisco DNA Center, ServiceNow

Protocols & Standards: TCP/IP, DNS, DHCP, IPv4/IPv6, QoS, SNMP, NetFlow, Syslog, HTTP/S, SSH

Vendors & Platforms: Cisco (IOS/IOS-XE/NX-OS), Palo Alto, Juniper (JunOS), Fortinet, Aruba, VMware NSX

Operating Systems & Tools: Linux (Ubuntu/CentOS), Windows Server, VMware ESXi, NetBox (IPAM), Visio, Jira, Confluence

PROFESSIONAL EXPERIENCE

Comcast Corporation

Apr 2024 – Present

Network Engineer

- Design and maintain large-scale enterprise and ISP network infrastructure supporting millions of subscribers, ensuring 99.99% uptime across core, distribution, and access layers.
- Architect and deploy Cisco Viptela SD-WAN solutions to replace legacy MPLS circuits, reducing WAN operational costs by 30% and improving application performance through centralized policy management.
- Lead cloud networking integrations using AWS Transit Gateway, VPC peering, and Azure Virtual Network, enabling seamless hybrid cloud connectivity for enterprise customers.
- Implement Zero Trust Network Architecture (ZTNA) with Palo Alto NGFW and Cisco ISE for 802.1X network access control, enhancing perimeter security posture across all sites.
- Develop Python and Ansible automation scripts to streamline repetitive network configuration tasks, reducing manual provisioning time by 45% and minimizing human error.
- Utilize Cisco DNA Center and ThousandEyes for proactive network performance monitoring, enabling rapid root cause analysis and reducing MTTR by 35%.
- Collaborate with NOC and DevOps teams using ServiceNow for incident management and change control, consistently meeting SLA targets in a 24/7 operational environment.
- Configure and optimize BGP peering policies for upstream ISP handoffs, supporting traffic engineering and redundant path failover across multiple PoPs.
- Maintain IPv6 dual-stack deployment across backbone infrastructure in alignment with Comcast's next-generation network strategy.

Coforge

Aug 2020 – Nov 2022

Network Engineer

- Configured and managed Cisco routers and multilayer switches (Catalyst 3850/9300 series) across multi-site enterprise networks supporting 2,000+ endpoints.
- Implemented and maintained OSPF and BGP routing protocols across the WAN backbone, ensuring optimal traffic flow and route redundancy with fast convergence.
- Deployed and managed VLAN segmentation, Spanning Tree Protocol (STP/RSTP), and EtherChannel LAGs for high-availability campus switching environments.
- Administered Cisco ASA firewalls and site-to-site IPSec VPN tunnels, ensuring secure connectivity between corporate offices and remote branch locations.

- Monitored network health and performance using SolarWinds NPM and PRTG; proactively identified and resolved bandwidth bottlenecks and link failures before impacting users.
- Automated configuration backups and compliance auditing using Python scripts and RANCID, reducing manual audit effort by 60%.
- Performed network capacity planning and documentation using Visio and NetBox as the source of truth for all IP address management (IPAM) and device inventory.
- Collaborated in MPLS and DMVPN WAN redesign projects, improving branch-to-branch latency by 25% and consolidating multiple WAN links into a single resilient hub-spoke topology.
- Participated in 24/7 on-call rotation, responding to P1/P2 incidents and driving resolution within defined SLA windows using structured troubleshooting methodologies.

KEY PROJECTS

SD-WAN Migration & WAN Optimization

- Led the migration of 150+ branch sites from legacy MPLS to Cisco Viptela SD-WAN, achieving 30% cost reduction and centralized policy-based traffic steering using vManage.

Network Automation Framework

- Built an Ansible-based automation framework integrated with NetBox (IPAM/CMDB) to auto-provision VLANs, IP addresses, and BGP neighbors across 500+ devices, reducing provisioning time from hours to minutes.

Hybrid Cloud Network Integration

- Designed secure AWS Direct Connect and Azure ExpressRoute hybrid connectivity, enabling enterprise customers to extend on-premises data centers into cloud with sub-10ms latency and private routing.

Enterprise Network Redesign

- Re-architected a flat network into a three-tier hierarchical model with OSPF area segmentation and MPLS VPN, improving scalability for 5,000+ users and reducing broadcast domain size by 80%.

EDUCATION

Master of Science in Computer Science

Lewis University, Romeoville, IL

Bachelor of Technology in Electronics & Communication Engineering

Bharat Institute of Engineering and Technology, Hyderabad, India

CERTIFICATIONS

- Cisco Certified Network Associate (CCNA) – Cisco Systems
- AWS Certified Advanced Networking – Specialty (In Progress)