SAI CHAND MEDAPATI

Senior Network Engineer

https://www.linkedin.com/in/sai-chand-medapati-471870283/

(312)-436-1562

chandmedapati2@gmail.com

As a **Senior Network Engineer** with over **9+ years of experience**, I specialize in designing, deploying, and managing **enterprise networking and hybrid cloud infrastructures** for large-scale organizations. I have **8+ years of experience as an Azure Systems Engineer** and **5+ years working with VMware**, with a strong focus on **Microsoft Azure, VMware, Kubernetes, and Databricks**. My expertise includes **building and optimizing Azure network entities**, **application/server management**, and **cost optimization strategies** to ensure high-performance, scalable, and cost-efficient cloud environments. Leveraging **advanced routing protocols** like **BGP, OSPF, MP-BGP, and EIGRP**, along with **switching technologies** such as **VLAN, VXLAN, EtherChannel, and LACP**, I ensure **seamless global connectivity and optimized data flows** across complex enterprise infrastructures.

My proficiency extends to **automation, orchestration, and scripting technologies**, including **PowerShell, Git, Azure CLI, and Terraform**, driving **30% operational efficiency gains** through streamlined infrastructure provisioning. I have extensive experience in **continuous integration and continuous deployment (CI/CD)**, including **script writing and management** to enable **automated deployments and infrastructure as code (IaC)**. Additionally, my expertise in **Azure AD, AWS IAM, Okta, Web Application Firewalls (WAF), and data protection strategies** ensures a **secure cloud environment**, significantly reducing security risks. With a strong foundation in **cloud**, I optimize **network performance and resource allocation**, enhancing system reliability and business continuity.

I am adept at **network security, troubleshooting, and performance monitoring**, utilizing tools like **SolarWinds, Splunk, and Wireshark** to proactively identify and resolve issues. My experience with **load balancing solutions** such as **NGINX, Citrix NetScaler, and Cloud Load Balancers** ensures **high availability and performance** under dynamic workloads. Additionally, I specialize in **disaster recovery solutions**, including **Azure Site Recovery, AWS Backup, and GCP Cloud Backup**, ensuring **RTO under two hours** for critical business operations. With a **strong analytical and organizational mindset**, I am committed to delivering **secure, scalable, and high-performance network architectures** that align with business objectives, I drive **digital transformation** by integrating **cutting-edge cloud, security, and networking solutions** for enterprise success

Technical skills:

Category	Skills
Networking Protocols	RIP, IGRP, EIGRP, OSPFv2/v3, IS-IS, BGP v4, MP-BGP
Routing & WAN	HDLC, PPP, PPPOE, MPLS, IPSEC VPN, Route Redistribution
Switching & Layer Tech	VLAN, VXLAN, STP (PortFast, UplinkFast), EtherChannel
Security	Cisco ASA, Checkpoint, Port Security, DHCP Snooping, IPS/IDS, VPNs (SSTP, IPsec/SSL), IP Source Guard (IPSG),fortnet
Cloud & Virtualization	AWS (VPC, subnets, security groups, IAM), Azure (ExpressRoute, Firewalls), Red Hat OpenShift, Virtual Machines, NFV, Containerized Microservices, GCP, Aviatrix, F5 Load Balancers
Load Balancing/QoS	NGINX, QoS, Traffic Shaping, Load Balancing
Monitoring Tools	SolarWinds, Wireshark, PRTG, SNMP, NetFlow, Splunk
Automation/Scripting	Python, Ansible Playbooks, Terraform, Power, GIT
Databases/Storage	Oracle 19c, Microsoft SQL Server 2019, Amazon RDS, Azure SQL Database
Cloud	Azure CLI, PowerShell, ARM Templates, and Terraform, azure , Iaas ,Azure CDN ,Azure customed DNS server,Microtik Virtual routers , Azure Site Recovery, NAT inter routing

Certifications

Cisco Certified Network Associate (CCNA)

Cisco Certified Network Professional (CCNP)

Work History

2023-11 - Current

Senior Network Engineer

T-Mobile, Chicago, IL

- **Switch Deployment:** Deployed Cisco Catalyst 2960-X switches across 100+ endpoints, ensuring high-density connectivity, PoE+ support, and 99.9% uptime for VoIP/IoT devices.
- **Data Center Scaling:** Scaled Cisco Nexus 3000/5000/7000 series to build a 10+ Tbps data center backbone with VPC and VXLAN for seamless scalability.
- **Routing Configuration:** Configured OSPF, EIGRP, and BGP across 300+ routers, achieving sub-50ms failover times and reducing network convergence by 40%.
- **Network Security:** Enhanced security with Palo Alto, Fortinet, Checkpoint, and Cisco ASA appliances, managing 60,000+ concurrent sessions.
- **Access Control:** Integrated Aruba ClearPass for identity-based access control and deployed IPSec VPNs with IDS/IPS, reducing security incidents by 35%.
- **Wireless Networking:** Deployed Cisco LAN Controllers and Aruba Access Points across 60,000+ sq ft facilities, supporting 500+ users with optimized wireless coverage using Ekahau tools.
- **Automation:** Automated configurations and deployments using Python, Ansible, and Terraform, saving 100+ man-hours annually and improving scalability.
- **Performance Monitoring:** Monitored 300+ network devices using SolarWinds, Wireshark, and Splunk, reducing MTTR by 40% and ensuring optimal performance.
- **Cloud Integration:**
- Supported large enterprise clients with troubleshooting cloud-based networking issues. Experienced in public and private cloud concepts such as SaaS, PaaS, DaaS, and IaaS.
- Deployed systems to Azure using Azure CLI, PowerShell, ARM Templates, and Terraform.
- Configured and utilized Azure PaaS offerings like WebApp, Azure Database, Azure Kubernetes, and Azure Data Lake. Experienced with Windows/Linux environments, virtual machines, software load balancers (e.g., F5), and configurations for Cisco/Juniper route/switch devices

2021-04 - 2023-09

Network Engineer

Los Angeles Housing Department, Los Angeles, CA

- **Router and Switch Deployment:** Deployed Cisco ISR 4331/4451 routers,

Catalyst 2960-X/3850/9300 switches, and Nexus 9300 across 15+ sites, ensuring 99.9% uptime for over 800 users.

- **Compliance Enforcement:** Enforced compliance with NIST 800-53, ISO 27001, and GDPR standards using Cisco ASA 5585-X firewalls, AWS Security Hub, and Azure NSG rules to ensure robust security.
- **Firewall Management:** Configured and maintained firewall policies on Cisco ASA 5585-X and Azure Firewall, ensuring secure traffic flow and comprehensive access control.
- **Workload Security:** Secured workloads with AWS KMS and Azure Key Vault, automating encryption processes and key rotation for enhanced data protection.
- **Zero-Trust Implementation:** Implemented zero-trust access using Azure AD Conditional Access and Cisco Duo MFA, boosting security across hybrid environments.
- **Disaster Recovery Planning:** Designed disaster recovery strategies utilizing Azure Site Recovery and AWS Backup, achieving recovery time objectives (RTO) of less than 2 hours for critical services.
- **SD-WAN Automation:** Automated failover processes for Cisco SD-WAN using Terraform and Ansible, improving scalability and outage response times.
- **Infrastructure Monitoring:** Monitored hybrid infrastructure with SolarWinds NPM, AWS CloudWatch, and Azure Monitor, enabling proactive performance management and reducing mean time to recovery (MTTR).
- **Database Migration:** Migrated Oracle 19c to Amazon RDS and SQL Server 2019 to Azure SQL Managed Instance, optimizing query performance by 35%.

2018-12 - 2021-02

Network Engineer
Goldman Sachs, Chicago, IL

- **Network Lifecycle Management:** Managed lifecycle for 120+ Cisco switches (Nexus 9508, Catalyst 9300/3850) and 60+ Juniper routers (MX204, MX480) across 15 global sites.
- **Incident Resolution:** Resolved 250+ critical incidents, including BGP route flapping and OSPF adjacency failures, ensuring stable and uninterrupted network operations.
- **Cisco ACI Deployment:** Deployed Cisco ACI with Nexus 9336C-FX2 spines, reducing provisioning time by 40%.
- **Application Migration:** Migrated 60+ on-prem applications to AWS using Juniper vSRX firewalls and Cisco CSR 1000v routers for enhanced scalability.
- **Hybrid Architecture Design:** Built an AWS hybrid architecture with Transit Gateway, VPC peering, and 1 Gbps Direct Connect for seamless integration.
- **Automation:** Automated SNMPv3 backups for Cisco IOS-XE devices and bulk BGP

AS prepends on Juniper MX routers using Python and Ansible, saving time and improving efficiency.

- **Security Enhancements:** Enhanced security through NSX-T microsegmentation, Juniper vSRX policies, and PVLANs for trader workstations.
- **Documentation & Audit Support:** Authored Nexus 9000 VXLAN troubleshooting guides and maintained NetBox diagrams for PCI compliance audits.

2016-05 - 2018-09

CSS CROP

Junior Network Engineer

- **Network Device Management**: Managed and monitored 50+ network devices, including Cisco Catalyst 3560/3850/4500, Nexus 7000/9000
- **Hybrid Cloud Projects**: Delivered hybrid cloud solutions on AWS and Azure, provisioning VPCs, Transit Gateways, and utilizing Azure Resource Manager (ARM) for efficient cloud resource management, achieving sub-10ms latency.
- **Azure Integration**: Configured Azure Virtual WAN, ExpressRoute, and Load Balancers to enable seamless integration and scalability across multi-cloud environments. Incorporated Azure Application Gateway for optimized traffic management.
- **Azure Security**: Established robust security postures using Azure Security Center, Network Security Groups (NSGs), and Azure Policy for compliance, ensuring proactive threat mitigation.
- **Azure Automation**: Streamlined operations by deploying Azure Logic Apps and Azure Automation Runbooks to manage recurring tasks, reducing operational overhead by 30%.
- **Firmware Updates**: Executed firmware updates for 60+ devices using Cisco Prime and Python Ansible, achieving 99% security compliance.
- **Secure Remote Access**: Deployed IPSec, SSL, and L2TP VPNs, enabling secure remote access for 100+ employees with sub-5-second connections (using NAT with two private IPs).
- **Azure Network & Cost Management**: Built and updated Azure networking entities, including VNets, NSGs, Azure Firewalls, and Load Balancers, while optimizing Azure cost management strategies.
- **Virtualization & Cloud Technologies**: Hands-on experience with Microsoft Azure, VMware, Kubernetes, and Databricks for enterprise cloud deployments.
- **CI/CD & Automation**: Developed CI/CD pipelines using Git, Azure CLI, Terraform, and PowerShell for infrastructure automation and continuous deployment.
- **Cloud Security & IAM**: Managed security frameworks, including Azure AD, IAM, Okta, and Web Application Firewalls (WAFs) for secure cloud access and data protection.