**Name: Tejasvi**

**PROFESSIONAL SUMMARY:**

* Designed and implemented high-performance, scalable routing solutions using Juniper MX Series routers (MX960, MX480).
* Engineered Nexus 9000 ACI migration plans and managed IP-CLOS Fabric with Spine-Leaf topology using EVPN.
* Configured and optimized data center switches including Nexus 7000 and 9000 series.
* Experience with Juniper EX Series switches (EX4300, EX9200) for data center environments.
* Configured and managed advanced routing protocols including EIGRP, OSPF, BGP, MPLS, IS-IS, and VPLS.
* Implemented redundant routers for high-speed internet gateway solutions with Juniper MX Series.
* Managed route redistribution and optimized routing policies for improved network efficiency.
* Expertise in configuring and managing Cisco Catalyst 9300 and 9500 series switches.
* Implemented Layer 2 and Layer 3 switching solutions, including VLAN management, spanning tree, ether-channel, and trunking.
* Designed and deployed multi-site ACI architectures with stretched fabrics and multi-pod configurations.
* Extensive experience with Palo Alto PA-Series firewalls (PA-3200, PA-5200) and Cisco ASA 5500-X and Firepower 2100 series.
* Designed and implemented high-availability firewall architectures with active/passive failover and load sharing.
* Applied advanced threat prevention techniques, including URL filtering and application identification with App-ID.
* Managed F5 BIG-IP 4000 series load balancers, optimizing traffic distribution and ensuring high availability.
* Configured and maintained F5 LTM (Local Traffic Manager) policies to enhance application performance and security.
* Configured and managed WLAN environments using Cisco 9800 Wireless LAN Controllers.
* Conducted 802.11 site survey analysis and remediation to ensure optimal wireless performance.
* Deployed and managed cloud solutions, including Azure ExpressRoute and site-to-site VPNs.
* Configured Azure Virtual Networks, VPN gateways, and managed Azure AD, MFA, OneDrive, and SharePoint.
* Automated network configurations using Cisco vManage for SD-WAN environments.
* Streamlined network operations and reduced manual intervention through automation tools and scripts.
* Implemented and managed Viptela SD-WAN solutions, including network automation and migration from traditional MPLS and VPN setups.
* Orchestrated SD-WAN environments with Cisco ISR 4461 and vEdge 1000 routers, leveraging centralized management with Cisco vManage.

**Technical Skills:**

|  |  |
| --- | --- |
| Firewalls | Palo Alto PA-3200, PA-5200 series, Cisco ASA 5500-X, Cisco Firepower 2100 series,Advanced threat prevention (URL filtering, App-ID, threat detection) |
| Routing Protocols | EIGRP, OSPF, BGP, MPLS, IS-IS, VPLS, Route redistribution and optimization |
| Switching Technologies | Cisco Catalyst 9300, 9500 series, Juniper EX Series (EX4300, EX9200),Nexus 7000, 9000 series, VLAN management, Spanning tree protocols,Ether-channel (LACP, PAGP), Multi-site ACI architectures |
| Communication Protocols | TCP/IP, SSL/TLS, EAP, Active Directory/LDAP, RADIUS, TACACS+, 802.1X |
| Redundancy Protocols | HSRP, VRRP, GLBP, Ether-channel (LACP, PAGP) |
| AAA Architecture | TACACS+, RADIUS, Network authentication, authorization, and accounting, Secure access control and logging |
| WAN Technologies | MPLS, SD-WAN (Viptela, Cisco ISR 4461), Site-to-site VPNs, High-speed internet gateway solutions |
| LAN Technologies | LAN configuration and management, Cisco Catalyst switches, Juniper EX Series, Nexus switching, Layer 2 switching (VLANs, spanning tree, trunking) |
| Wireless Technologies | Cisco 9800 Wireless LAN Controllers,802.11 site survey analysis, WLAN configuration and remediation |
| Load Balancers | F5 BIG-IP 4000 series,F5 LTM (Local Traffic Manager),Traffic distribution and high availability,Application performance optimization |
| NEXUS Features | Nexus 9000 series,ACI , IP-CLOS Fabric with Spine-Leaf topology, Advanced Nexus configurations for data centers |

**Certifications:**

* Cisco Certified Network Associate (CCNA)
* Cisco Certified Network Professional (CCNP)

**EDUCATIONAL DETAILS:**

* Bachelors in Electronics and Communications, Jawaharlal Nehru Technological University, 2014.

**PROFESSIONAL EXPERIENCE:**

**Network Security Engineer**

**IP Infusion | CA | Aug 2023-current**

**Responsibilities:**

* Responsible for maintaining the layer 2 and layer 3 networks, including Cisco Catalyst 9300 and 9500 series switches, and worked on migration to put the devices behind the Cisco ASA 5500-X and Firepower 2100 series firewalls.
* Designed and deployed Cisco ISE for network access control (NAC) to secure wired and wireless networks.
* Configured and managed FortiGate firewalls, including policy setup, NAT, and VPN configurations.
* Designed and implemented CNI plugins to provide network connectivity for containerized applications.
* Monitored and troubleshot Nexus 9000 ACI fabric health, faults, events and audits using native APIC tools, queries, operational tools and APIs.
* Implemented multi-site ACI architecture with stretched ACI fabrics and multi-pod configurations interconnected via site OSPF policies and remote leaf switches.
* Designed, implemented, and managed Juniper MX Series routers (MX960, MX480) for high-performance, scalable routing solutions.
* Implemented Kubernetes networking solutions, including CNI plugins, to ensure reliable network connectivity for containers.
* Configured and optimized Juniper EX Series switches (EX4300, EX9200) for Layer 2/3 switching, VLANs, and trunking.
* Deployed redundant MX480 and MX960 routers as high-speed internet gateway routers providing multi-gigabit MPLS, BGP, and internet peering capabilities.
* Configured MX Series with OSPF, IS-IS, BGP, MPLS LDP, RSVP-TE, and VPLS/VLAN services for large-scale L3VPN and L2VPN environments.
* Engineered Nexus 9000 ACI migration plan from traditional VLAN-based architecture, including phased application migrations, endpoint groups/EPGs, and contract/policy handoffs.
* Documented the network infrastructure using Visio for network diagrams before and after migration, ensuring everything was prepped and ready for migration.
* Experience in administering Viptela SDWAN enterprise deployment and implementing network and devices for the SDWAN environment using Cisco ISR 4461 and vEdge 1000 routers.
* Automated and streamlined network configurations through Cisco vManage, the centralized SDWAN orchestrator.
* Migrated circuits and sites from traditional MPLS and VPN to SDWAN using Cisco SD-WAN solutions.
* Updated the network devices in the monitoring tool (PRTG) before and after the migration.
* Worked on Rack network diagrams, EoL BOM, EoL Review, and Fiber Review for all global sites.
* Backed up configurations for all network devices, including Cisco ASR 1000 series routers and Catalyst 9300 witches, before the migration.
* Configured and managed Cisco ISE policies for 802.1X authentication, MAC address bypass, and guest access.
* Implemented and configured Cisco routers and switches (e.g., ASR 1000 series, Catalyst 9300, 9500 series) at Lonza sites utilizing TACACS. Applied SSHv2 configuration across all sites.
* Performed pre- and post-checks on equipment such as Nexus 7000 and 9000 series before migration and acted as the focal point for circuit installations and testing.
* Handled WLAN configuration via Cisco 9800 Wireless LAN Controllers and conducted 802.11 site survey analysis and remediation.
* Performed network administration tasks such as creation and management of VLANs, Port security, Trunking, PVST+, Inter-VLAN routing, and LAN security using Cisco Catalyst 9500 series.
* Configured and involved in troubleshooting EIGRP, RIP, OSPF, BGP, static routing, MPLS WAN Connectivity on Cisco ASR 1000 series, Nexus 7000 series, and Catalyst 9500 series managed Telnet and SSHv2 sessions.
* Executed route-redistribution between different routing protocols like OSPF, BGP, and EIGRP for increased efficiency using Cisco routers and switches.
* Responsible for network configurations that include Layer 2 switching—spanning tree, ether-channel, ARP, ethernet, 802.11, HTTP, HTTPS, DNS, FTP, TFTP, SFTP, DHCP—on Cisco Catalyst 9300 series switches.
* Strong knowledge and experience in Cloud Computing Engineering, including concepts, service models (IaaS, PaaS, SaaS), deployment models, practical implementations, and future trends.
* Worked on interdepartmental tickets for firewall changes, fixes, and log review, including Palo Alto PA-3200 series firewalls, based on various compliance needs.
* Designed high availability firewall architectures using Palo Alto hardware firewalls (PA-Series) and virtual firewalls (VM-Series) with active/passive failover and load sharing.
* Utilized App-ID decoders within Palo Alto firewall packet captures to validate application identification and related policy enforcement.
* Investigated URL filtering misclassifications by creating and applying Palo Alto test rules and overrides based on application signatures.
* Configured Open gear IM7200 series for out-of-band management across all customer call centres.
* Managed and configured F5 BIG-IP 4000 series load balancers to optimize traffic distribution and ensure high availability across critical applications.
* Implemented and maintained F5 LTM (Local Traffic Manager) policies to improve application performance and security.
* Conducted regular health checks and troubleshooting on F5 BIG-IP devices to ensure seamless network operations and prevent downtime.
* Conducted regular audits of Cisco ISE policies and procedures to ensure alignment with organizational security requirements

**Network Security Engineer**

 **Availity | Remote| Feb 2022 - Jul 2023**

 **Responsibilities:**

* Responsible for maintaining network performance by building network configurations, connections and troubleshooting network problems and designing, installing, maintaining, and supporting LAN, WAN, Server, SAN, Wireless and VOIP infrastructures.
* Worked on PCI Network segmentation project as a part of Yale network VLAN segmentation project. Also worked on Next-Gen Network Migration.
* Implemented profiling and posture assessment policies in Cisco ISE to ensure compliance with security standards
* Set up and maintained FortiGate devices in high availability (HA) mode for network redundancy and uptime.
* Responsible for code upgradation and hardware installation at data centers for different network devices such as Juniper (Juniper EX3400, EX3300,QFX5100), Cisco(6509,catalyst switches 3850,3650) HP(5400,2800,4200), Aruba(7240,3600,AP 303H,310 series) network equipment.
* Deployed CNI solutions to ensure seamless network connectivity for containers in multi-host environments.
* Configured virtual chassis, VRRP, HSRP, OSPF, BGP for Data centers across different locations.
* The analysis of network segmentation and host locations and validating VLAN assignments or recommending changes. Work with project manager and internal organizations to implement recommendations.
* Conducts equipment evaluations, equipment selection, pilot testing and network designs to ensure reliability and scaled expansion of the network
* Keep management, other team members and other departmental employees aware of obstacles and status changes in a timely manner based in our change management process. Also provided weekly status report with updates.
* Designed, implemented, configured, and maintained 802.1X wired and wireless network access via WLCs, network switches, and 802.1X/RADIUS network access control servers
* Coordinated with the review, maintenance, documenting and testing of technology Disaster Recovery Plans for core Yale infrastructure services, working with Infrastructure management to ensure plans are valid.
* Ensured network security best practices are implemented on all routers, switches, firewalls, and other network systems.
* Utilized Kubernetes features such as Deployments, StatefulSets, DaemonSets, and Jobs to manage application workloads.
* Worked on with devices Palo Alto Network firewalls (PAN 7050, PAN 5050) such as security NAT, Threat prevention & URL filtering IDS/IPS.
* Deploying and decommissioning the VLANs on core ASR 9K, Nexus 7K, 5K and its downstream devices and Decommissioned on used ACL’s on cisco ASA firewalls, juniper SRX 100,300 and Palo alto firewalls.
* Configured Ether-channel with LACP and PAGP for link aggregation between Core to distribution and as L3 MEC for VSS on 4K and Predator Box.
* Documentation of Change Management process for providers along with fail over Considerations.
* I have built a lab to Play and test Cisco On site (Customer proof of equipment) CPOC equipment with different use cases on CISCO DNAC, TRUSTSEC, APIC EM.
* Attended the Cisco Boot camp on CISCO ISE, DNAC, APIC EM.
* Advanced experience working with common network security technologies like IPS, Firewalls, Proxies and Content Filtering using Palo alto firewalls and cisco firepower (Cisco ASA 5500) network equipment.

**Network Engineer**

**Jefferies | Remote | Nov 2019- Oct 2021**

**Responsibilities:**

* Responsible for internal and external customer requests for enterprise infrastructure, including planning, maintaining, and supporting infrastructure.
* Configured and managed SSL VPN and IPsec VPNs on FortiGate for secure remote access.
* Integrated Cisco ISE with Active Directory, LDAP, and RADIUS for centralized user authentication and authorization
* Installed, configured, deployed, and maintained routers, switches, firewalls, and other network infrastructure tools, including Cisco Catalyst 9400, 9500, Nexus 9300-EX/FX, Juniper QFX 5200, 5120, Palo Alto PA-3220, PA-5250, and Fortinet FortiGate 6000F series.
* Led projects from initiation to completion, trained and guided team members on tools and technologies.
* Set up Azure ExpressRoute and site-to-site VPNs: Created Virtual Networks, VPN gateways, and managed authentication certificates in Azure.
* Orchestrated the deployment, scaling, and management of containerized applications using Kubernetes.
* Worked in Agile methodology: Created user stories from prioritized features and managed sprint backlogs.
* Designed, implemented, tested, and documented IP-CLOS Fabric with Spine-Leaf topology using EVPN, leveraging Cisco Nexus 9300-EX, Juniper QFX 5120, and Arista 7280R series switches.
* Implemented, tested at scale, and documented Transit VPC solutions using Juniper vSRX in AWS.
* Experience configuring and managing Azure AD, MFA, OneDrive, SharePoint, and B2B collaboration.
* Configured, changed access, and implemented customer IPSEC VPN setups, including troubleshooting on Cisco ASA 5500-X, Juniper SRX 4100, and Palo Alto PA-3220 firewalls.
* Worked extensively on F5 BIG-IP LTM (i2800, i5800) for creating and managing VIPs and Pool member configurations.
* Experience with network protocols [e.g., TCP/IP, SSL/TLS, EAP, Active Directory/LDAP, Radius, TACACS+, 802.1X].
* Implemented Kubernetes networking solutions, including CNI plugins, to ensure reliable network connectivity for containers.
* Monitored and analyzed Cisco ISE logs and reports to detect and respond to unauthorized access attempts.
* Conducted packet-level troubleshooting and analysed packets for real-time sensitive traffic using tools like Wireshark and SolarWinds.
* Reduced troubleshooting time by 25% using Net Brain for streamlined device information retrieval.
* Worked in a change management environment for routine maintenance of network devices, including software updates on Cisco, Juniper, Palo Alto, and F5 devices, and provided 24x7 support.

**Network** **Engineer**

**MGM Group of Companies | Chennai, IND | July 2017-Oct 2019**

**Responsibilities:**

* Configured and maintained LAN, WAN, VPN, and WLAN on Cisco Routers.
* Managed and configured Wide Area Networking Protocols such as HDLC and PPP.
* Configured Routing Protocols like EIGRP and OSPF.
* Integrated FortiGate with LDAP and RADIUS for user authentication and authorization.
* Involved in configuring HSRP, VRRP, GLBP, PAP, and CHAP.
* Engaged in HSRP, VRRP, GLBP configuration and troubleshooting, as well as Port channel management of the network.
* Deployed and managed Kubernetes clusters in on-premises, cloud, and hybrid environments.
* Worked with Cisco advanced services to implement and build new data center Nexus environment implementing new Data-Center design, support, and migrations tasks
* The performed task in complete LAN, WAN development (including IP address planning, installation, configuration, testing, maintenance etc.)
* Performed tasks for implementation & troubleshooting of L2-switching and L3-routing protocols OSPF & BGP
* Performed lab replications, research protocol features and performance testing with traffic generator IXIA
* The consolidated multi-tiered environment of Nexus switches using VPC, VDC, UCS, VMware, and Fabric path technologies
* Provided technical support and troubleshooting for Cisco ISE-related issues, including authentication failures and policy misconfigurations.
* Troubleshoot important packet end to end to be able to compensate for lost packets when calculating inter-arrival times using Endace switches and EndaceProbe
* The configuration included VLANs & VTP, STP port features, Gateway redundancy using HSRP, enterprise security using Port Security with Dot1X framework, Pulse connect secure products and SSL VPN

Migrated about 4000 user segments as part of DNS/ DHCP Scope migration project.

**Junior Network Engineer**

**Cyient |Hyderabad, IND |** **March 2014 - June 2017**

**Responsibilities:**

* Designed and implemented remote dial up solution for clients. Upgrading and managing Linux Kernel on Red Hat Linux 5 &6 & ESX Reboots. Configuring IPS, IDS, VLAN, STP, Port security, SPAN, Ether channel in Cisco Composite Networks. Configured routers and modems, troubleshot issues related to broadband technologies for Residential and Business Customers.
* Collaborated with security and network teams to optimize Cisco ISE configurations for enhanced network security.
* Efficient in cabling as per co-location contracts with loop-back testing, including all DS1, DS3, T1, T3, CAT 6 and CAT 5 connections as per defined cabling procedures.
* Managed firmware upgrades on FortiGate devices to ensure security and stability.
* Installed and configured the ACE and CSM for firewall/Server Load balancing for Cisco Catalyst switches. Installed, and configured Cisco routers (7200, 3600, and 2800) and Cisco switches (6500, 4500, 2950 and 1900 series). Configured and resolved various OSPF issues in an OSPF multi area environment. Configured network access servers and routers for AAA Security (RADIUS/ TACACS+)
* Implemented static routing, routing protocols (OSPF, and BGP), switching (VLANS, VTP Domains, STP, and Trunking). Installation and configuration of Citrix NetScaler MPX 8200.Successfully installed Palo Alto PA 3060 Firewall to protect data center and provides L3 support for routers/switches/firewall.
* Deployment of enterprise firewalls (Palo Alto network, Cisco ASA, Check Point) in production environment. Expert level Knowledge on working with Wireless LAN Controller's, Cisco NCS, Cisco AP's, LWAPS, Standalone AP's and Mesh AP's. Knowledge and skill of 802.11 a/b/g/n LAN normal for wireless Technology. Experience in trouble-shooting both connectivity issues and hardware problems on Cisco based networks. Performed Port channeling and LACP between downstream devices for vPC configuration. Involved in the removal of EIGRP from all devices and making OSPF the primary routing protocol.