**Krishna**

**Gopi291713@gmail.com PH: 770-421-5454**

**SUMMARY:**

* **5+ years** of professional experience in **Network Planning, Implementing, Configuring, Troubleshooting, and Testing** of networking systems on both **Cisco** and Juniper Networks.
* Experience with escalation problems for **Routing, Switching, and WAN connectivity issues** using **ticketing system remedy, Jira, and Salesforce.**
* Knowledge of telecommunications and networking protocols
* Configuring and troubleshooting **Cisco Wireless Networks**:**LWAPP, WLC, WCS, Standalone APs, Roaming, Wireless Security Basics,** **IEEE 802.11 a/b/g/n/ac/ax, RF spectrum characteristics**
* Experience with a **wireless site survey** and network planning with **Ekahau** and **Cisco prime**
* Partner with the Problem Management team in evaluation of network or telecom related problems in an ongoing review of the environment to ensure reliability and availability of the network
* Configured **routers, switches, firewalls,** and other network devices to support the **CIDR** network design.
* Hands-on experience in installing, configuring, and troubleshooting **Cisco 7600, 7200, 3800, 3600, 2800, 2600, 2500, and 1800 series routers**, and **Cisco Catalyst 6500, 4500, 3750, 2950, and 3500XL series switches.**
* Implementing dynamic SD-WAN cloud environments. On Establishing the secure connections between the sites and data centers. And Right-size the deployment based on number of users and anticipated WAN usage.
* Expertise for the SD-WAN (Versa & Viptela), SD-LAN and WAN optimization technologies for efficient delivery of the application data across LAN and WAN.
* Handled**Load Balancing** using **F5 Networks.**
* Enhanced level of experience in the setup of **Access-Lists, RIP, OSPF, EIGRP, BGP, and tunnel installations**
* Worked extensively in Configuring, Monitoring, and Troubleshooting **Cisco's ASA 5500/PIX security**appliance, configuring VLANs/routing/NATing with the firewalls as per the design
* Well experienced in configuring protocols **HSRP, GLBP, VRRP, ICMP, IGMP, PPP, HDLC, PAP, CHAP**, and **SNMP**
* Experience in **SD-WAN** technologies **(Versa, Riverbed, Silver Peak, and Velocloud)** office 365.
* Experience in configuring **Virtual Local Area Networks (VLAN), spanning tree protocol (STP), VLAN Trunking Protocol (VTP), Dynamic Trunking Protocol (DTP), Per VLAN spanning Tree (PVST)**, and **802.1x** authentication in access layer switches
* In depth understanding of **IPV4**, **Subnetting implementation, VLSM and ARP, reverse & proxy ARP, Ping Concepts**
* Excellent **communication skills**with**the** ability to interact effectively with employees at all levels of the organization.

**TECHNICAL SKILLSET:**

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| --- | --- |
| Routers | Cisco 7609, 7200, 3800, 2800, 2600 series / Juniper PTX1000, MX960, QFX5100/5200 |
| Switches | Cisco Catalyst switches 6500, 4900, 4500, 3750, 2900 series, Cisco Nexus 7k, 5k, 2k series. |
| Network Security | Cisco ASA 5500 series firewalls  Cisco Meraki MX250, MX450 series SD-WAN appliances  Palo Alto PA-5400, PA-3400 series |
| Routing | BGP, OSPF, EIGRP, RIP-2, PBR, IS-IS, Route filtering, Redistribution, Summarization, Static routing |
| Switching | LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Multicast operations, Layer 3 Switches, Ether channels, Transparent Bridging. |
| LAN | Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet. |
| WAN | Leased lines 64k - 155Mb (PPP / HDLC), Channelized links (E1/T1/E3/T3), Fiber optic circuits, Frame relay, ISDN, and Load Balancing. |
| WLAN | 802.11b/a/g/n/ac/ax, MR28, MR36, MR44, MR56, MR76. |
| Network Management | SNMP, Cisco works LMS, HP open view, Ethereal, Azure Kubernetes Service. |

**EDUCATIONAL DETAILS:**

Masters in cyber security, Saint Louis University.

Bachelors in computer science, SR Engineering College.

**PROFESSIONAL EXPERIENCE:**

**Heartland Payment Systems, Atlanta GA Oct 2022 – Till Date**

**Role: Network Engineer**

**Responsibilities:**

* Configuring Static, IGRP, EIGRP, and OSPF Routing Protocols on Cisco 1600, 2600, 2800, 3600, and 7300 series Routers.
* Configured routers, switches, firewalls, and other network devices to support the CIDR network design.
* Optimized IP address utilization and implemented IP address management tools and processes.
* Deployed on Nexus 7000, 5000, and 2000 series with V-Block servers and Cisco UCS E-series.
* Experience in working with Cisco Nexus 2148 Fabric Extender and Nexus 7010, 5000 series to provide a Flexible Access Solution for data center access architecture.
* Alcatel DWDM / ADM, Fujitsu Flash and Nortel SONET transmission equipment.
* Switching-related tasks included implementing VLANs, and VTP, and configuring and maintaining multi-VLAN environment and inter-VLAN routing on the Fast-Ethernet channel.
* Worked with different vendors and implement Site-to-Site VPNs over the Internet Load.
* Implementing, configuring, and troubleshooting routing protocols such as OSPF (v3, v2), RIPv2, BGPv4, EIGRP, HSRP, GLBP, and MPLS.
* Experience with Versa SD-WAN for remote site connectivity over MPLS networks, including the configuration of routing, application policies, and integration with IPS/IDS to enhance network security.
* Redistribution from RIP to OSPF and vice versa by implementing Hub & Spoke topology with a Frame Relay Switch and integrating IPS/IDS solutions to monitor and protect against threats.
* Configuring, troubleshooting and design of ATM, SONET, SDH, DWDM, Promina TDM
* Implemented site-to-site VPN in Juniper SRX as per customer Worked on Route-Reflectors to troubleshoot BGP issues related to customer route prefixes also route filtering using Route-maps.
* Collaborated with cross-functional teams to implement patches, updates, and security controls to mitigate identified vulnerabilities.
* Migration of legacy WAN network to SD-WAN with virtual firewalls on WAN routers.
* Configure various LAN switches such as CISCO CAT 2900, 3550, 4500, and 6509 switches and Access layer switches such as Cisco 4510, 4948, and 4507 switches for VLAN, Fast Ether Channel configuration.
* Implemented network segmentation by configuring VLANs, virtual firewalls, or SDN solutions.
* Developed network policies in collaboration with stakeholders to govern communication and access between segments.
* Segregated all VLAN traffic using VACLs, providing secured communication with SD-WAN overlay network deployment.
* Enforced network policies by configuring and deploying firewalls, routers, and switches.
* Deployed and implemented SD-WAN solutions, configuring routers, switches, firewalls, and other network devices.
* Monitored and troubleshot the SD-WAN environment, resolving network issues and ensuring optimal performance.
* Coached/managed agents, monitored customer service, queried databases to insure accuracy and operating status of customer's domestic and international IP Enabled ATM, T1, T3/DS3 , frame relay, and SONET/SDH OCx orders and services in a global routed network utilizing OSPF backbone routing protocol and BGP external routing protocol Account management to facilitate action with internal departments and access suppliers to resolve issues related to service delivery and repair of service problems involving routing/interface difficulties as well as layer 1 and 2 issues Managed IP enabled network services (Cisco product) over IP backbone.
* Regular upgrade and maintenance of Infrastructure, Installing, configuring, and maintaining Cisco Switches (2960, 3500, 7600, 3750, 3850 series, 6500 series) Cisco Routers (4800, ASR 9K, 800), Juniper Routers and Firewalls, Nexus 7k,5k & 2k, f5 BIG IP, Palo Alto Firewalls, Zscaler Proxy and Versa SD-WAN appliances.
* Configured and managed advanced network routing and switching solutions, including Cisco ASA, Firepower Threat Defense (FTD), and Firepower Management Center (FMC), ensuring robust network security and performance.
* Integrated Palo Alto Networks' next-generation firewalls (NGFW) with SD-WAN to enforce security policies and inspect traffic at the network edge.
* Implemented Azure network policies using Azure Firewall Manager to enforce network security and segmentation across multiple VNets.
* Worked with the engineering team to resolve tickets and troubleshoot L3/L2 problems efficiently.

**Citizens Bank, 1 Citizen Way, Johnston, RI December 2021 – September 2022**

**Role: Network Engineer**

**Responsibilities**

* Designed, implemented, and supported an infrastructure capable of offering cloud computing services.
* Successfully designed, engineered, and architected technical solutions using various technologies, including Cisco and Amazon AWS.
* Worked on Azure Load Balancer or Azure Application Gateway to distribute incoming network traffic across multiple instances of services or virtual machines, improving availability, scalability, and performance.
* Migrated circuits and sites from traditional MPLS and VPN to SD-WAN.
* Implemented security controls and patched network devices to mitigate vulnerabilities.
* Implemented dynamic SD-WAN cloud environments, establishing secure connections between sites and data centers, while incorporating IPS/IDS configurations to ensure comprehensive threat detection and prevention.
* Monitored network traffic for signs of malicious activity and responded to security incidents.
* Implemented and maintained security measures to protect the integrity and confidentiality of UC traffic.
* Troubleshot and resolved network connectivity, performance, and reliability issues.
* Managed network changes following change management processes and documented network configurations and changes.
* Used Wireshark to analyze network traffic for security threats, unauthorized access attempts, and malware.
* Conducted IPv4 TCP/IP subnetting and IPv6 migration projects, ensuring efficient network resource utilization and future-proofing the infrastructure.
* Optimized network performance by analyzing traffic patterns and performance metrics in Wireshark.
* Monitored network traffic and logs using Palo Alto's monitoring tools to identify and mitigate security incidents or abnormal behavior.
* Conducted regular audits and assessments of network infrastructure using Palo Alto firewalls to identify vulnerabilities and recommend appropriate security measures.
* Maintained accurate documentation of IP address assignments, subnetting schemes, and network configurations related to CIDR.
* Installed, configured, and implemented changes on Cisco Nexus, Catalyst switches, Cisco Routers, and numerous network devices listed below.
* Segregation all VLAN’s traffic using VACL’s and provides secured communication with SDWAN overlay network deployment.
* Experience in network expansion and integration, including planning and executing changes with Cisco Meraki devices.
* Implemented and maintained DMVPN solutions integrated with zone-based firewalls, providing secure and scalable communication across WANs.
* Optimized SD-WAN performance by analyzing traffic flows, managing QoS policies, and implementing WAN optimization techniques.
* Maintained a proactive approach to monitoring and troubleshooting, promptly addressing any post-Windows server migration issues and ensuring the stability and reliability of the new server infrastructure.
* Provided post-migration support and addressed any user queries or concerns, ensuring their satisfaction and minimizing disruptions to their daily operations
* Utilized Windows desktop to monitor network performance and track network statistics
* Handled configurations and troubleshooting on devices, which included Nexus, Cisco ASR, Cisco Application Control Engine load balancers, ASA Firewalls, ACL updates, Catalyst Switches, UCS, 3945 routers, 9300/4948 switches, and Nexus 9k/7k/5k.
* Managed secure and reliable operations of SCADA networks, implementing best practices to ensure the integrity of critical infrastructure systems.
* Routinely performed routing configuration changes and integrations using OSPF, BGP, and EIGRP.
* Automation of configs, device backups, and QA pre-checks on network devices using Python and Ansible.
* Used Ansible to install, update, and manage software packages and applications on Red Hat systems. Ensured required software was installed and properly configured for optimal network performance.
* Experience with load-balancers including F5, Cisco ACE, and Amazon Elastic Load-balancers ELB.
* Created comprehensive artifacts and reports for internal audits, risk management reviews, and regulatory compliance checks.
* Designed network topology diagrams using Lucidchart to simplify complex designs for stakeholders and team members.

**Azure IT Services. India** **Feb 2018 – May 2021**

**Role: Network Engineer**

**Responsibilities:**

* Maintained redundancy on Cisco 2600, 2800, and 3600 routers with HSRP and VRRP.
* Implemented and configured routing protocols like EIGRP, OSPF, and BGP.
* Responsible for SNMP Monitoring and Performance Tuning software.
* Designed WAN structure to prevent a single point of failure in case of link failure.
* Planning and Implementation of Subnetting, VLSM to conserve IP addresses.
* Conducted vulnerability scans using industry-standard tools to identify potential security weaknesses in the network infrastructure.
* Configured STP for loop prevention and VTP for Inter-VLAN Routing.
* Configuration of Standard and Extended ACLs for Security.
* Troubleshooting the issues related to routing protocols.
* Managing, troubleshooting, and monitoring the network using the Network Monitoring tool.
* Network Security implementation with Cisco IOS Feature Set, NAT, and Simple Network Management Protocol.
* Performed IOS upgrades on Catalyst 3550, 2950, and 1900 switches, and 3600, 2600, and 2500 routers.
* Installed wireless access points (WAP) at various locations in the company.
* Technical assistance for LAN/WAN management and complex customer issues.