**Pooja**

**Sr Network Engineer**

**SUMMARY**

* 7 years of professional experience in Network Planning, Implementing, Configuring, Troubleshooting and Testing of networking system on both Cisco and Juniper Networks.
* Experience with the escalation problems for Routing, Switching and WAN connectivity issues using ticketing system remedy
* Worked on Cisco 7200, 3800, 3600, 2800, 2600, 1800 series Routers and Cisco 2900, 3500, 4500, 5500, series switches
* Extensive hands-on experience with complex routed LAN and WAN networks, routers and switches
* Hands-on configuration and experience in setting up Cisco routers to perform functions at the Access, Distribution, and Core layers
* Experience with BIG-IP F5 load balancers, version 9.x, 10.x, 11.x, CitixNetscalers and Web Accelerators.
* Experience in the setup of Access-Lists, and RIP, EIGRP, and tunnel installations
* Proficiency in configuration of VLAN setup on various Cisco Routers and Switches
* Configure all Palo Alto Networks Firewall models (PA-2k, PA-3k, PA-5k etc.) as well as a centralized management system (Panorama) to manage large scale firewall deployments.
* Automated infrastructure and Deployed applications using tool like Puppet, Docker, Chef and Ansible.
* Network monitoring and debugging tools: SevOneNetscout, Wireshark
* Wrote server scripts using Perl to work with IPv6 instead of IPv4.
* Good understanding of NAT & Firewall on Aruba Controllers.
* Wireless design for over a total of 100 million square feet.
* Along with other Network Engineers participated in the management and configuration of Cisco ASA, Juniper and Palo Alto Firewalls, ACL’s, and Packet Shaping devices and rules.
* Worked on various network projects involving Cisco Routers- ASR 1000/9000, Switches-Nexus 7K/5K/2K.
* Enhanced level of experience with OSPF, BGP, and TCP/IP
* Strong knowledge on cisco ISE.
* Good knowledge on Cisco RSA.
* Worked extensively on Juniper MX Series Routers and EX series Switches
* Great team player and able to work under pressure 24x7 duty rotation.
* Strong knowledge in HSRP, VRRP redundancy Protocols.
* Strong experience on Juniper SSG series Firewalls and Checkpoint R75, 76 Firewalls
* Experience in Network Management Tools and sniffers like SNMP, HP-Open view, Wireshark and Cisco works to support 24 x 7 Network Operation Center.
* Experience in physical cabling, IP addressing and subnetting with VLSM, configuring and supporting TCP/IP, DNS, installing and configuring proxies.
* Access control server configuration for RADIUS & TACAS+.
* Hands-on experience using Cisco Virtual Switching System (VSS).
* Good knowledge on Bluecoat proxy server SG• Knowledge of advanced technologies like VOIP, H.323, SIP, QOS, Multicasting, MPLS and MPLS-VPN
* Experience with 802.11x wireless technology.
* Experience with Juniper SRX 240 Firewalls
* Ability to Install, Manage & Troubleshoot Large Networks & Systems Administration on Windows & Linux platforms in Development, Lab & Production Environments.
* Provided expensive network troubleshooting, wireless hard wired and multicast.
* Worked on integrating existing Layer 2 and Layer-3 networks with AC.
* Hands-on Experience with CISCO Nexus 9000, Nexus 7000, Nexus 5000, and Nexus 2000 platforms.
* Experience with configuring Nexus 2000 Fabric Extender (FEX), which acts as a remote line card (module) for the Nexus 5000.
* Adept in requirements analysis, network design, installation, configuration, maintenance and administration.
* Upgrade Versa FlexVNF SD- WAN appliance software.
* Tested and worked with software designers to establish a user-friendly environment.
* Enterprise API Adoption, operating across all business units as internal clients to inventory and track    
  existing and future APIs for migration
* Involved in building database Model, APIs and Views utilizing Python, in order to build an interactive web based solution.

**Technical Skills:**

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| --- | --- |
| **Cisco Platforms** | Nexus 7K, 5K, 2K & 1K, Cisco routers (7600,7200, 3900, 3600, 2800, 2600, 2500, 1800 series) & Cisco Catalyst switches (6500, 4900, 3750, 3500, 4500, 2900, 6807 series), |
| **Juniper Platforms** | SRX, MX, EX Series Routers and Switches |
| **Networking Concepts** | Access-lists, Routing, Switching, Subnetting, Designing, CSU/DSU, IPSec, VLAN, VPN, WEP, WAP, MPLS, VoIP, Bluetooth, Wi-Fi |
| **Firewall** | ASA Firewall (5505/5510), Checkpoint, Cisco ASA |
| **Network Tools** | Solar Winds**,** SNMP, Cisco Works, Wireshark |
| **Load Balancers** | Cisco CSM, F5 Networks (Big-IP) |
| **WAN technologies** | Frame Relay, ISDN, ATM, MPLS, leased lines & exposure to PPP, DS1, DS3, OC3, T1 /T3 & SONET |
| **LAN technologies** | Ethernet, Fast Ethernet, Gigabit Ethernet, & 10 Gigabit Ethernet, Port- channel, VLANS, VTP, STP, RSTP, 802.1Q |
| **Security Protocols** | IKE, IPSEC, SSL-VPN |
| **Networking Protocols** | RIP, OSPF, EIGRP, BGP, STP, RSTP, VLANs, VTP, PAGP, LACP, MPLS, HSRP, VRRP, GLBP, TACACS+, Radius, AAA, IPv4 and IPv6 |
| **Operating System** | Windows 7/XP, MAC OS X, Windows Server 2008/2003, Linux, Unix |

**CERTIFICATIONS**

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

**Professional Experience:**

**Caterpillar, Deerfield IL Jul 2018 – Present**

**Sr Network Engineer**

**Responsibilities:**

* Configuring Static, IGRP, EIGRP, and OSPF Routing Protocols on Cisco 1600, 2600, 2800, 3600, 7300 series Routers.
* Deep technical troubleshooting on customer SD WAN Edge connect device, Firewall Fortigate and Palo Alto.
* Designed & implemented Fortinet network & third party equipment as per ISP SR (service request) the included Juniper, F5, Cisco Catalyst, Cisco Nexus 7K and higher end FortiGate
* Configured Site to Site IPsec VPN tunnels to peer with different clients and each of client having different specifications of Phase 1 and Phase 2 policies using Cisco ASA 5500 series firewalls.
* Configured Easy VPN server and SSL VPN to facilitate various employees’ access internal servers and resources with access restrictions
* Responsible for entire company network infrastructure that includes Cisco Switches, Routers, Firewalls, Access Points, Servers and PBX.
* Configured VLAN’s, Private VLAN’s.
* Design, and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls
* Subject Matter Expert for juniper Routing, Switching, Security, and VPN Systems
* Implementation of Site-to-Site VPNs over the internet using 3DES, AES/AES-256 with ASA Firewalls
* Configure various LAN switches such as CISCO CAT 2900, 3550, 4500, 6509 switches and Access layer switches such as Cisco 4510, 4948, 4507 switches for VLAN, Fast Ether Channel configuration.
* Designed and Implemented Firewalls, F5Viprion deployments to Front end and DMZ customers
* Measure the application performances across the MPLS cloud through various routing and switching methods.
* Configured inside ACL, outside ACL, inside, outside interfaces.
* Configured NAT and PAT policies.
* Configuration and troubleshooting of EIGRP, OSPF, BGP.
* Configuration and troubleshooting of CSM, integration with ASA devices.
* Experience in migration of VLANS & Configured VLANs with 802.1q tagging, Ether channels, and Spanning tree for creating Access/distribution and core layer switching.
* Installed and configured DNS, DHCP. Responsible for creating and configuring FORWARD LOOKUP ZONE AND REVERSE LOOKUP ZONE
* Redistributed required routes from OSPF in to BGP. OSPF cloud is present in US and is connected to all our customers over Sprint’s Frame Relay backbone
* Managed Plan of Record with PLMs/SE/Sales/Marketing and followed up and monitor product lines of Juniper routing/switching/security portfolio (MX, PTX, EX, SRX)
* Proficient with F5 LTM and Cisco CSM load balancer in-between the servers inside the server farm and DMZ.
* Implementation of Access Lists for allowing/blocking desired traffic.
* Building the VPN tunnel and VPN encryption.
* Mapped, Network Diagrams and physical identification in MS Visio.
* Preformed IOS upgrades on cisco routers and switches
* Monitor performance of network appliances and WAN utilizing using network analyzer like River Bed, Wireshark, Solar Wind.
* Working knowledge on OPNET - NetFlow to produce network management report
* Worked with engineering team to resolve tickets and troubleshoot L3/L2 problems efficiently.
* NetPlannerSystems designs, installs, certifies and maintains customized state-of-the-art structured cabling systems for clients of all sizes in every industry
* Configured Cisco 2800, 3800 routers and 3750, 4500, 6500 switches as part of the implementation plan.
* Proactively monitoring network devices connectivity via Network Management Tools such SNMP, NNMI,Opnet, HP NAS, Netflow.
* Working on documenting new features in Vyatta software router configuration guides, based on specifications and remote subject matter experts.
* Analyze packets using Opnet and Wireshark tools and hands on experience on all software blades of checkpoint firewall.

**Environment:** Cisco2948/3560/4500/3560/3750/3550/3500/2960 6500 switches and Cisco 3640/1200/7200/3845/3600/2800 routers, Cisco ASA 500, Checkpoint, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP

**Norwegian Cruise Lines, Miami, FL Oct 2016 – Jun 2018**

**Sr Network Engineer**

**Responsibilities:**

* Maintain and track the status of device supplied to the client.
* Coordinating with JTAC for faulty part replacement and configuring standby device to support customer with minimal downtime.
* Implemented Juniper firewall &switches.
* Installation & Maintenance of Juniper switches routers &firewalls.
* Implementing and maintaining WAN/LAN and WLAN networks in different diagrams
* Implemented various EX, SRX & J series Juniper devices.
* Involved in troubleshooting L3VPN issues and updating Junos images, UTM Anti-virus and IDP.
* Identified opportunities for implementation of network best practices, particularly F5 load balancer implementations.
* Monitor performance of network appliances and WAN utilizing using network analyzer like Wireshark.
* Study of migration of the old WAF infrastructure from DenyAll to F5 BIG IP ASM technologies.
* Responsible to providing support for IT infrastructure in the laboratory. Surveillance activities for physical and virtual switches. Openflow, 802.1x and MAC authentication test.
* Deployed BIG IP Enterprise manager to cluster all the F5 LTM, GTM, ASA, Netscreen devices for easier management and common configurations.
* Involved in migration of F5 Local traffic managers of LTM 5100 series to LTM 6800 series for higher.
* BigIP ASM Positive and Negative Policy Reinforcement, iRule, Full proxy for HTTP, Server Performance Anomaly Detection.
* Design and integration of Juniper SSG series firewalls, SA VPN Appliances, J series Routers, and EX series switches.
* Created and resolved Checkpoint, Palo Alto Customer Orders, and Request Orders.
* Configuration of Fabric path and connectivity between Nexus 7K and Nexus 5K.
* Palo Alto/Checkpoint Firewall troubleshooting and policy change requests for new IP segments that either come on line or that may have been altered during various planned network changes on the network.
* Tracking and installation of requirements & development by working with client and related teams to implement changes.
* Installed high availability Big IP F5 LTM and GTM load balancers to provide uninterrupted service to customers.
* Design roles and groups using AWS Identity and Access Management (AWS).
* Setup and maintain federal enterprise HP Aruba wireless networks.
* Configured ACI Policies, Tenants, Bridge Domain, Private Networks, Contracts and Filters
* Successfully Upgraded Aruba Airwave from AMP FIPS version 8.0.10 to FIPS Version 8.2.4.2
* Worked on PAN firewall for allows network administrators to configure and enforce firewall policies.
* Created on the PAN firewall to allow the controller to send data to the PAN firewall.
* Migration Strategy: implementing a client-friendly, prioritized approach to migration tasks to empower    
  teams with self-service onboarding, API proxy development, and a clear roadmap to production

**Ultimate Software, Weston, FL Jan 2015 – Sep 2016**

**Network Engineer**

**Responsibilities:**

* Actively participated and completed many projects based on MPLS VPN, Internet Solutions for corporate customers Backbone.
* Involved in service inventory, Order management and Order activation design of Cisco Prime Fulfillment product.
* Actively participated Implementation and customization of customer network.
* Hands on experience working on Cisco 7600, 12K, ASR routers & Juniper MX series and Juniper BRAS.
* Provide advanced technical implementation and support for Cisco and Microsoft Unified Communication Video and Audio collaboration infrastructure including planning, installing, administering, recoverability.
* Worked on applications-HP NA, HP NNM, Cisco Prime, Beyond Compare, SecureCRT, Putty to name a few.
* Currently working on wireless upgrade project for Allegheny Health network and their EPIC roll out.
* Designing, Provisioning and Installation of the Customer Sites in Oracle IPSA for MPLS Backbone.
* Verifying IPv4/IPv6 Addressing Architecture.
* End to end provisioning of DS3, OCn, and GigE circuits.
* Verifying Dynamic Host Configuration Protocol for IPv6 (DHCPv6) and DNSv6 options.
* Worked on applications Cisco Prime, WCS, WLAN Controller and NCM. HP Network Node Manager (NNM) and Network Automation (NA). HP ESMS Service Manager trouble ticketing system.
* Performed wireless network design, site surveys, as well as Troubleshooting and repairing any issues that occurred on site.
* Project managed the DS3 ordering process for 4G reducing cycle times by 45%. Established the design specifications for DS3, OCn, and GigE circuits in NRM.
* Global responsibility for service management of Instant Messaging and the voice and video integration of same.
* Provide support, design and implementation services to Wheat Systems clients with Cisco IP Telephony environments. Working with several versions of Communications manager, Unity, and Unity connections.
* Installation and repair of voice, HSI, data, DS3, T1, 5E Switch, sonnet, umc1000, calix, and Adtran etc
* Managing proxy server for branches and head office for internet access through Bluecoat Proxy SG600 for URL Filtering, traffic acceleration and visibility reporting with Bluecoat reporter.
* Configuration and troubleshooting of many link types i.e. SONET Controllers for sub E1/T1, E3/T3 and POS controllers for STM1 links.
* DNS Zone administration for 13 countries across EU for COLT customers.
* Implementation and testing of ISDN BRI/PRI circuits.
* Meraki Installation: Remote installation of Cisco Merakis at client locations.
* Cisco Meraki Configuration: Meraki Network creation and configuration - Location, Tags, DHCP, Wired/Wireless setup, Firewall, etc.
* Use serviceNow platform to create and solve tickets about user's issues on WebEx.
* Migrated Vlans from ASA (perimeter firewalls) to FWSM’s for better security management
* designing and implementing Edge Border Control for the enterprise by installing Session Border Controllers (SBC) and Cisco Unified Border Elements (CUBE).
* Responsible to troubleshoot the connectivity between CPE router and the COLT's edge router (SAR).
* Worked closely with RIR(Regional Internet Registry) to procure PI(Provider Independent) and PA
* Responsible for troubleshooting complex networking issues in service provider MPLS & internet
* Aggregately) IP addresses and AS numbers for COLT and customers.
* Working on Ansible for Deployment on UNIX Platform (RedHat and CentOS); installing and configuring Jenkins and Ansible
* Set up DNS Reverse Delegation according to RIPE rules in RIPE Database.

**Tata Consultancy Services, India Apr 2013 – Dec 2014**

**Network Engineer**

**Responsibilities:**

* Configured Cisco Routers for OSPF, RIP, IGRP RIPv2, EIGRP, Static and default route.
* Performed troubleshooting, while maintaining trouble ticket tracking, following internal/external escalation procedures and customer notifications.
* Tested multicast protocols like PIM-SM, MSDP, IGMP, IGMP-Snooping in IPTV    
  solution.
* Supporting Development team for the access to corporate network and outside world. Providing access to specific IP, Port filter and port access.
* Installed and repaired DS1, Fiber, Sonet Rings, DS3 and all other high speed circuits
* Configured the Cisco router as IP Firewall and for NATting.Switching (Ethernet) related tasks included implementing VLANS and configuring ISL trunk on Fast-Ethernet channel between switches.
* Installing new equipment to RADIUS and worked with MPLS-VPN and TACACS configurations.
* Installing and maintaining local as well as network printers.
* Validating existing infrastructure and suggesting new network designs.
* Monitor performance of network and servers to identify potential problems and bottleneck.
* Real time monitoring and network management using Cisco Works LMS.
* Monitoring Memory/CPU on various low-end routers in a network.
* Configuring routers and send it to Technical Consultants for new site activations and gives online support at the time of activation.
* Worked on online diagnostic tests like ASIC register check run while bootup, line module online insertion and removal and system reset with Cisco Catalyst 9000
* Provided technical support on hardware and software related issues to remote production sites.
* Performed administrative support for RIP, OSPF routing protocol.
* Worked on cisco 9k, bootup diagnostics run during bootup, health-monitoring tests run in the background.
* basic installation of power equipment, power cable lacing, DS3 cable installation, T1-DS1 installation, testing, and wirewrapping, Titan 3500 and Titan 5500 installation, fiber optic cable runs and termination, building cable rack and fiber trough, DS1 and Fiber tester, assisted in power cuts.
* Managed Escalations for DS1/T1 Maintenance Call Centers region wide.
* Maintained redundancy on Cisco 2600, 2800 and 3600 9000 router with HSRP.

**Education**

Degree: Bachelor in information technology

University: Sardar Patel University, INDIA

Year: 2012