 **Swetha**

**Sr. Network Engineer**

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**PROFESSIONAL SUMMARY:**

* 7 years of Experience in Designing, Deployment and Operations of complex enterprise and service provider networks. Adept in managing service functions & streamlining the working standards operating system for project rollout, design and development of Telecom solutions.
* Strong grasp of current and future technologies including **TCP/IP, IPv4/v6, RIP, EIGRP, OSPF, BGP, Frame Relay, ACL, VPN, Wireless LAN and configuration of VLANS.**
* Steered efforts for providing presentation and seminar to the customers for in-house projects to introduce about the projects Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, and Route Maps.
* Experience in **layer-3 Routing and layer-2 Switching**. Dealt with **Nexus** models like **9K, 7K, 5K, 2K series**, Cisco router models like 7200, 3800, 3600, 2800, 2600, 2500, 1800 series and Cisco catalyst 6500, 4500, 3750, 3500, 2900 series switches.
* Configuring and managing an IP video monitoring and security control system that used media-on-demand technologies. Servers decommission, Server modification and upgrade, Hardware support, backup-streaming solutions.
* Migration from **Cisco firewalls** to **Palo Alto firewalls** platforms PA 4000 and PA 500 and PA- 200 firewalls.
* Successfully installed Palo Alto PA 3060 firewalls to protect **Data Center** and provided L3 support for routers/switches/firewalls.
* Implemented firewall rules in Palo Alto firewalls using Panorama for one of the environment.
* Understanding the **JUNOS** platform and worked with IOS upgrade of Juniper devices.
* Managed the security infrastructure of the service provider which includes ASA 5585, 5540, 5520, 5505.
* Effectively managed process according to **ITIL** framework standards implemented in the organization.
* Experience writing Linux shell scripts.
* Experience in network performance testing. Administration and Maintenance in multi-vendor platform environments (**Cisco, Juniper, Checkpoint, F5, Palo Alto**)
* Experience with Firewall Administration, Rule Analysis, Rule Modification.
* Built stable, productive and profitable operations within highly technical environment.
* Configuring virtual chassis for **Juniper switches EX- 4300, firewalls NS 5200**
* Good knowledge in configuration of **Voice VLAN’s (VOIP),** prioritizing the voice traffic over the data traffic.
* Worked on Load Balancer F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability
* Working knowledge of frame relay, MPLS services, OSPF, BGP and EIGRP routing protocols, NAT’ing, sub-netting, also including **DNS, WINS, LDAP, DHCP, http, HTML, HTTPS, TCP/IP, UDP, SNMP, OSPF, RIP, IPSEC**, PPTP, VLAN, STP (Spanning tree Protocol), RTSP & Multicasting protocols
* Highly motivated with the ability to work independently or as an integral part of a team.
* Enterprise Switching with **VLANs, Trunks, Spanning Tree**, Port Spanning etc.
* Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with Cisco ASA VPN experience.
* Enterprise experience with **Nexus** models like 7K, 5K, 2K series.
* Experience in configuring VDC, VPC and FCOE, upgrading **NX-OS** for Nexus Family Switches.
* Hands on experience on **Juniper EX switches** which includes EX2200, EX2500, EX3200 and EX4200 and QFX5100.
* Moderate knowledge in configuring and troubleshooting Cisco Wireless Networks: LWAPP, WLC, WCS, Standalone APs, Roaming, Wireless Security Basics, IEEE 802.11 a/b/g/n/ac, RF spectrum characteristics.
* Hands-on experience with installing and managing IT services such as Active directory, **site replication, DNS, SSH, DHCP, DNS, NAT** and VMware.
* Working knowledge with monitoring tools like **Solar Winds** & network packet capture tools like **Wire-shark**.

**CERTIFICATIONS:**

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

**TECHNICAL SKILLS:**

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| **Operating Systems** | Cisco IOS, Windows NT 4.0 (Desktop/Server), Windows 2000/2003/2008 Server, Windows XP/Windows 7/8, LINUX, UNIX, MS Exchange server, Solaris, Active Directory. |
| **Equipment’s (Switches Routers)** | Cisco routers (7600, 7200, 3900, 3600, 2800, 2600,2500, 1800 series) & Cisco Catalyst switches (6500, 4900, 3750, 3500, 4500, 2900 series, UCS- C, UCS-D, UCS-M, CUCM, juniper SRX, MX, EX Series Routers and Switches. |
| **Routing** | OSPF, EIGRP, BGP, RIP, RIP-2, PBR, Route Filtering, Redistribution, Summarization, Static Routing, IS-IS, ICMP, FTP, SMTP, HTTP/HTTPS |
| **Switching** | VLAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing &Multi-Layer Switching, Multicast operations, Layer 3 Switches, Ether channels, Transparent Bridging. |
| **Firewalls** | ASA 5500 series, checkpoint, Juniper Netscreen Firewall ISG100, 2000, SSG, SRX. |
| **Load Balancer** | ACE Module,F5 Networks (Big-IP) LTM 8900 and 6400, GTM, Cisco CSM, APM. |
| **LAN Technology** | Workgroup, Domain, HSRP, DNS, DHCP, Static, VLAN, STP, VTP, Ether Channel, Trunks, Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet. |
| **WAN technology** | Frame Relay, ISDN, ATM, MPLS, leased lines & exposure to PPP, HDLC, Channelized links (T1/T3), Fiber Optic Circuits, DS1, DS3, OC3, T1 /T3 & SONET. |
| **Various Features &Services** | HSRP, VRRP, GLBP, NAT, SNMP, SYSLOG, NTP, CDP, DNS, TFTP, FTP, IOS and Features, Management. Wireshark, IXIA chariot, Packet Sniffer, Packet Analyzer and Solar Winds Breaking Point, TCP Dump, Python. |
| **AAA Architecture:** | TACACS+, RADIUS, Cisco ACS. |
| **Network Security:** | Cisco ASA 5540, ACL, IPSEC, F5 Load Balancer, Checkpoint, Blue Coat, Palo Alto, SCADA, Process Control Domain(PCD) |
| **Wireless & Wi-Fi** | Canopy Wireless Device (point to point/point to multipoint), DLink Wireless (point to point), DLink Access Point, CISCO 1200 series Access Point, and Linksys Wireless/Wi-Fi Router. |
| **Monitoring Tools** | Cacti, Riverbed |

**PROFESSIONAL EXPERIENCE:**

**California Public Employees' Retirement System (CalPERS), Sacramento, CA February 2018 - Present**

**Role: Sr. Network Engineer**

**Roles & Responsibilities:**

* Configured routers and switches, also designed and implemented security policies using ACL on ASA firewall.
* Performed migration of switches.
* Involved in implementation of Security Tagging and configuration of wireless controllers.
* Coordinating with IT application teams, troubleshooting the applications on F5 LTM.
* Maintained site network diagrams and documented and updated network topology diagrams using Microsoft Visio.
* Perform Operational and Maintenance for DHCP on Infoblox.
* Experience in Cisco Routing and Switching, Network Security with strong Cisco hardware/software experiences with Routers: Cisco 2600, 2800, 3600, 7200, ASR Series and Catalyst Switches: 4500, 6500, Nexus 7k, 5K and 2K Fabric Extenders.
* Configuring TACACS+ and RADIUS for Cisco ASA.
* Responsible for service request tickets in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
* DNS Updates/Removal/New add via Infoblox DNS appliance.
* Involved in management and troubleshooting of TCP/IP LAN and WAN network systems (VPN and wireless).
* Configured Security policies including NAT, VPN's and Access Control Lists.
* Carried out Route-redistribution between different routing protocols like BGP, EIGRP for increased efficiency.
* Assigning of IP addressing. DHCP, Subnets and NAT.
* Managing, Add/Remove devices on ISE.

**Union Bank, Sacramento, CA June 2016 – Jan 2018**

**Role: Sr. Network Engineer**

**Roles & Responsibilities:**

* Responsible for designing and implementation of network and Security infrastructure.
* Reviewing, analyzing, approving and executing all changes in the network. All Configurations of Cisco Routers and Switches. Participated in a rotating 24x7 support schedule for the Network Operation Center.
* Designed, validated and implemented LAN, WLAN & WAN solution to client’s needs.
* Focused on working with Cisco Channel partners to build practices around Cisco ACI
* Juniper Contrail SDN deployment assistance to the senior engineering team
* Cisco’s Application Centric Infrastructure (ACI) implementation (Nexus 9K, APIC).
* Use and maintain routing protocols OSPF and BGP on the Routers in the network & also worked on BGP Route Reflectors, Confederations.
* Configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 7000. Configuring VDC & VPC in Nexus 9k, 7k, 5k and 2k.
* Experience working with BGP attributes such as Weight, Local-Preference, MED and AS-PATH to influence inbound and out bound traffic.
* Carried out Route-redistribution between different routing protocols like OSPF, BGP, EIGRP for increased efficiency.
* Juniper Contrail SDN solution provisioning in test labs.
* Provided technical support for Cisco’s Application Centric Infrastructure (ACI), APIC technologies.
* Involved in load balancing web-based application traffic using Big IPs F5 LTM and GTM.
* Deploying and decommission of VLANs on core ASR 9K, Nexus 7K, 5K and its downstream devices.
* Performed OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on ASR 9K redundant pair.
* Set up VSS cluster, ether channel, VLAN trunking, VTP and inter-VLAN routing on 6506.
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP and MST.
* Configuring Cisco switches including Nexus9K, Nexus7K, Nexus5K and Nexus2K (FEX), C6500,4900,3750, 3560,3550,2960,2950 and C500 switches.
* Coordinating with IT application teams, troubleshooting the applications on F5 LTM.
* Application Load Balancing with F5BigIPLTM and GTM devices, Cisco ACE, and Cisco CSS appliances.
* Setting up of iRules to support cyber security requirements, application behavior etc.
* Coordinate with application teams, firewall team and network team to migrate the application from old
* DMZ to New DMZ on F5 load balancers.
* Good knowledge on juniper SRX240, SRX220 and SRX550 series Firewalls.
* Knowledge of commercial enterprise-level tools and products to provide network services, including: firewalls, IPS/IDS, DNS, DHCP, web security, TACACS+, VPN.
* Troubleshooting of complex LAN/WAN infrastructure, including routing protocols EIGRP, OSPF & BGP.
* Involved in creating load balancing implementation plans and configurations, deployment of F5 load balancers.
* Responsible for migrating Cisco ACE load balancers to F5 load balancers and general troubleshooting of the F5 load balancers.
* Configured RSTP, MST and used VTP with 802.1q trunk encapsulation. Provided port binding and port security wherever required. Provided router redundancy through HSRP.
* Participated in data center upgrade from Cisco IOS platforms to NX-OS platforms.

### CVS Caremark, Woonsocket, RI Oct 2014 - May 2016

### Role: Network Security Engineer /F5 Engineer

**Responsibilities:**

* Designed and deployed networks using dynamic routing protocol (EIGRP, OSPF and BGP).
* Designed WAN structure to prevent single point of failure in case of link failure.
* Experience with configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000.
* Designed and Implemented Cisco Nexus Platform, Cisco UCS & HP Virtual Connect Flex1.
* Installation and configuration Cisco router IOS 12.x, CatOS 12.x, Nexus NX-OS 6.x.
* Quality of service QOS and class of service COS implementations for business-critical applications and prioritize traffic for voice and other critical applications.
* Maintaining & Troubleshooting Cisco Wireless Access points.
* Set up HSRP, VLAN trunking 802.1Q, ether channel, VTP and inter-VLAN routing using MSFC on catalyst 6509 and 6513 switches.
* Experience with convert Palo Alto VPN rules over to the Cisco ASA solution. Migration with both Palo Alto and Cisco ASA VPN experience.
* Design and implement Cisco ACI fabric networks with Nexus 9000 switches and APIC controller in a VMware environment using Cisco network and data center routers/switches Nexus 9000, 7000, 5000, 2000
* Provide design and SDN/NFV networking support using Open-Stack, Juniper Contrail and Big Switch Networks
* Worked on Cisco Catalyst 6500, Nexus 5000 & 7000 and Cisco 4948, 7200 series Routers as well as ASR 9k.
* Assisted in the design and completion of a new remote site build along with implementation of Cisco 3845 circuit routers, Cisco catalyst 6500 and 3750 switches.
* Upgrade Cisco 6500, 3750, 2960s, Nexus 5000, Nexus 2000, Nexus 7000 switch IOS software
* Use and maintain routing protocols OSPF and BGP on the Routers in the network & also worked on BGP Route Reflectors, Confederations.
* Used Python programming and language to develop a working and efficient network within the company
* Involved in arranging ASA firewall, checkpoint firewall.
* Working on IP/MPLS with layer 3 VPN, layer 2 VPN, ISIS, OSPF, BGP and traffic Engineering.
* Troubleshooting CORE and CE BGP & MPLS issues.
* Maintenance and Troubleshooting of BGP/IP MPLS network.
* Involved in configuration and usage of Data Center Migration, chipped away at execution techniques for the development of the MPLS VPN systems.
* Created dynamic access policies on the ASA’s for the offshore vendors to be able to VPN in and access the resources they needed for their testing purposes.
* Upgraded the code on multiple ASA’s from 8.2 to 8.4 which required a very great deal of configuration changes especially due to the change of syntax for building NAT’s on 8.4
* Certifying items, Substantial lab testing & approval preceding usage of Nexus 7K, 5K & 2K interfacing with sharpened steel servers.
* Integrated Cisco ACI into existing network infrastructures to help automate network operations.
* Primary responsibility is to design and deploy various network security & High Availability products like Palo Alto, Cisco ASA other security products
* Installed various network hardware including concentrators, bridges, and hubs to establish communication connections with remote locations.
* In depth knowledge with network monitoring and performance tools such as SolarWinds and Wireshark.
* Build and maintain Visio documentation database of network topology.
* Worked with Cisco Layer 3 switches 3560, 3750, 4500, 6500; Cisco Nexus 5000 and 7000 in multi VLAN environment with the use of inter-VLAN routing, 802.1Q trunk, ether channel.
* Configured and designed LAN networks with Access layer switches such as Cisco 4510, 4948, 4507 switches.
* Basic and advance F5 load balancer configurations, including migrating configurations from Cisco ACE to F5 and general troubleshooting of the F5 load balancers.
* Configured EIGRP, RIP, OSPF, BGP and static routing, MPLS WAN connectivity, Frame relay Wan Connectivity and Telnet and SSHv2 sessions.
* Implemented Static NAT and PAT for internet users.
* Configured & maintained IPSEC Site-to-Site VPN.
* Designed and Implemented DMZ for FTP, Web and Mail Servers with CISCO PIX525 and PIX515E.
* Juniper Networks Service Provider Routing and Switching.
* Involved in Network Access Management, operational management and engineering support of Cisco 5500-5585 series ASAs, All PIX and FWSM models.

**AT&T, Oregon City, OR Nov 2013 - Sep 2014**

**Designation: Network Engineer**

**Roles & Responsibilities:**

* Worked on dispatching the STM 4 connections on GSR Router 12404 and 12406.
* Network Cabling, dressing, naming and investigating different system drops on location.
* Troubleshoot of Leased Lines like STM4, DS3, E1 Links, Metro, NLD ILD Services and RF joins.
* Design and execution of establishment and setup of VPN/IVPN, LAN/WAN according to hierarchical prerequisites.
* Responsible for Capacity arranging, Contingency arranging & fiasco recuperation.
* Maintaining Checkpoint security policies including NAT, VPN and Secure Remote access
* Configuring IPSEC VPN (Site-Site to Remote Access) on SRX series firewalls.
* Maintained Corporate Firewalls & Analysis of firewall logs using various tools. Configured and troubleshooting of HSRP on Cisco routers.
* Network consists of Heavy Cisco equipment’s such as Cisco 2500, 2600, 3640, 3945, 7200 series Routers, Cisco 6500, 4500, 3560, 2950, 2924 Switches, Cisco Pix firewall 500 series and Wireless Access points Cisco 1230.
* Involved in New Branch Network Systems. Resolved Network Issues, Ran Test Scripts and Prepared Network Documentation.
* Maintenance and Troubleshooting of LAN connectivity problems using Ping, Trace route.
* Experience in deploying EIGRP/BGP redistribution and the changing the metrics for the primary and backup
* Worked on Riverbed devices for WAN bandwidth Optimization in the data centers for the sensitive
* Involved in Troubleshooting of DHCP and other IP conflict problems.
* Performed Switching Technology Administration including VLANs, inter-VLAN Routing, Trunking, STP, RSTP and Port Aggregation & Link Negotiation.
* Deployed a large-scale HSRP solution to improve the uptime of collocation customers, in the event a core router became unreachable.
* Configured RSTP, LACP and VTP on Nexus devices.
* Performed RIP & OSPF Routing Protocol Administration.
* Monitored performance of Network and Servers to identify potential problems and bottleneck.
* Worked on 4500 Catalyst switches for the purpose of LAN requirement and for troubleshooting LAN issues
* Experience on a mesh 6500 and 5500 series routes and switches to support the core trading system. Involved
* Involved in designing and applying QOS and policy MAP QOS to WAN to 2800 series routers for all the
* branches
* Involved in Troubleshooting IP Addressing Issues and Updating IOS Images using TFTP.
* Maintenance & Monitoring Base station base.
* Commissioning of New Links By facilitating with BSO.
* Ensure standard Router and Switch Configurations are kept up.
* Worked on Network Operations utilizing Ticketing framework utilizing SIFY TAC.
* Monitoring the NMS framework for diverse Network Alerts.

**Beam Broadband, Hyderabad Aug 2012 - July 2013**

**Role: Network Admin**

**Roles & Responsibilities:**

* Prepared Engineering documents and Network diagrams in Microsoft Vision.
* Designed VLAN’s and set up both L2 and L3 logical to have it communicate to the Enterprise network.
* Scheduled preventive maintenance for fire-protection systems, including new protocols. Utilize MS Windows, Word, and Excel for reporting/documenting process.
* Juniper: EX-2200, EX-4200, EX-4500, MX-480, M Series, SRX210, SRX240
* Delivered Departmental Efficiency through advanced engineering, technical support, and documentation procedures.
* Implemented cable multi-service operator (MSO) to capture traditional Telco subscribers with IP telephony and provide relevant QOS.
* Configured EIGRP, BGP, and MPLS.
* Implemented new ultra-secure networks in multiple data centers that included Cisco 6500 s, Juniper security devices, and F5 Big IP’s.
* Implement QOS for Voice, Video against DATA by Ip Precedence and DSCP.
* Implemented Load Balancing between Cisco L3 Switch by HSRP and GLBP.
* Involved in L2/L3 Switching Technology Administration including making and overseeing VLANs, Port security, Trunking, STP, Inter-Vlan directing, LAN security.
* Developed and presented LAN/WAN/WLAN network engineering design packages.
* Responsible for administration appeal tickets produced by the helpdesk in all stages, for example, investigating, support, updates, patches and fixes with all around specialized backing.
* Worked on authorizing and decommissioning of the MPLS circuits for different field business locales.
* Completed administration demands (i.e. – IP readdressing, data transmission overhauls, IOS/stage redesigns, and so forth).
* Supporting EIGRP and BGP based PwC arrange by determining level 2 &3 issues of inner groups & outside clients of all areas.
* Providing day by day system help for national wide region system comprising of MPLS, VPN and point-to point site.
* Configuring HSRP between the 3845 Router sets for Gateway repetition for the customer desktops.
* Configure VRRP & GLBP and VLAN Trunking 802.1Q & ISL, STP, Port Security on Catalyst 6500 switches.
* Prepared and maintained documentation using MS Visio.

**ICICI Bank, Hyderabad May 2011 - July 2012**

**Role: Network Support Engineer**

**Responsibilities:**

* Worked as part of a team for Cisco Product Support. Troubleshooting by providing relevant knowledge base articles and other information.
* Network solutions for complex networks for VAR (Value added resellers) users of Cisco.
* Configured & maintained LAN, WAN, VPN, WLAN, and Firewalls on Cisco Routers for end users.
* Configuring MPLS, VPN (IPSEC, GRE) in VPN concentrators and QOS in integrated networks (Data, Voice, and Video).
* Installed and configured of Juniper J-Series (J2350) and M-Series (M10) routers.
* Installed and configured the ACE and CSM for firewall/Server Load balancing for Cisco Catalyst switches.
* 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.
* Apache Web Server & MRTG, BIND DNS Server configuration and optimization over UNIX and Active directory implementation of Windows 2003 Server.
* Configured & Maintained Cisco 2600, 2800, 3200 series routers including IOS upgrades.
* Prompt technical support to customers on routers and switches.
* Remote management of large networks.

**Education Details:**

* Master’s in Electrical Engineering Wright State University, Dayton, OH.
* Bachelor’s in Electronics and Communication Engineering- Osmania University, HYD, India.