Sr Network Engineer

Sr Network Engineer - United Nations, NY

New York, NY - Email me on Indeed: indeed.com/r/6cb2d5573a5953e7

• Over 8 years of experience in networking sector, including hands-on experience in providing network support, installation and analysis for a broad range of LAN/WAN/MAN communication systems.
• Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
• Experience in managing inventory of all network hardware. Management and monitoring by use of SSH, Syslog, SNMP, NTP.
• Strong knowledge on Wireless Standards and Technologies, i.e. Ethernet, WAN, LAN, IEEE […] b, g, n (Wi-Fi) . Cisco Wireless Management system, PCI standards. Very good knowledge on IEEE […] (Bluetooth), Mesh networks, etc.
• Hands on experience in configuring Cisco Catalyst 2960, 3750, 4500, 6500 and Nexus 3000, 5000, 6000, 7000 series switches and Cisco 2600, 2800, 3600, 3800, 7200, 7600 series routers, Load Balancers& Cisco Firewalls.
• Working knowledge of network monitoring/management tools like Wireshark, TCP dump, Cisco Prime, Net Flow, PRGT, Solar Winds.
• Hands on experience in configuring and supporting site-to-site and remote access Cisco, IPsec, VPN solutions using ASA/PIX firewalls, Cisco and VPN client.

• Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether channel, STP, RSTP and MST. Implementation of HSRP, VRRP for Default Gateway Redundancy.
• Moderate knowledge in configuring and troubleshooting Cisco Wireless networks; LWAPP, WLC, WCS, stand-alone apps, roaming, wireless security basis, IEEE […] RF spectrum characteristics.
• Extensive hands-on experience in configuring and troubleshooting Juniper Routers - M, MX, PTX, T & QFX5100 series platforms.
• Experience with juniper Netscreen 520M Firewall and Palo Alto Network firewall.

• Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NAT with the firewalls as per the design.
• In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, IP Subnetting, VLSM, TCP/IP, NAT, DHCP, DNS, FT1 / T1 / FT3 / T3 SONET POS OCX / GigE circuits, Firewalls.
• F5 BIG-IP application load balancing subject matter expert with concentration on layer 7 load balancing using I-Rule scripting in TCL.
• Extensive knowledge of deploying & troubleshooting TCP/IP, Implementing IPv6, Translation from IPv4 to IPv6, Multilayer Switching, UDP, Ethernet, Voice & Data Integration techniques.
• Strong knowledge of TACACS+, RADIUS implementation in Access Control Network.
• Background in network design, including Wide Area Networking (WAN), Local Area Networking (LAN), Multiple Protocol Labeling Switching (MPLS), DS3.
• Experience on Monitoring tools like Wireshark, Solar winds, TCP Dump, Nagios, Open NMS, PRTG, Remedy, OpNet, VMware, Riverbed, SNMPv2, SNMPv3
• Installation, advanced configuration and troubleshooting of Cisco and F5's load balancing devices.
• Expert in configuration of Virtual Local Area Networks (VLANS) using Cisco routers and multi-layer Switches and supporting STP, RSTP, PVST, RPVST along with trouble shooting of inter VLAN routing and VLAN trunking using 802.1q.
• In depth knowledge of MPLS (VPLS, VPWS, L2VPN, L3VPN), LDP, RSVP, IS-IS, OSPF, MP-BGP, VRFs and Multicasting.

• Knowledge on Cisco Wireless LAN Controller (Cisco WLC) 8510, 5508 models for creation of Aps and their convergence.
• Good Experience with VPNs and the associated tunneling technologies (L2TP, MPLS, etc.) Switching, spanning tree and other switching technology as required, Firewalls and associated technologies as required
• 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.
• Extensive Knowledge of voice communications technology and VoIP Protocols.
• Good understanding of Upgrading CUCM, CUC, and Voice Gateways (VG310, VG 320)
• Hands-on experience with CUCM (9.1, 10.5), CUC (9.1, 10.5), and Cisco IOS (12.x - 15.x)
• Experience with scripting or programming languages including Python, SLAX, and NETCONF, and experience with automation frameworks such as Puppet, Chef, Ansible, or others is a plus
• Expertise in Network Management SNMP, Wireshark, Nessus, WhatsupGold, Solar Wind.
• Extensive knowledge in developing test plans, procedures, and testing Various LAN/WAN Products and Protocols.
• Strong experience with SP networks (BGP, IS-IS, MPLS, BFD, L3VPN, L2VPN, VPLS, LAG)
• Configuring and implementing routing protocols including RIP, TCP/IP, RIP v1/v2, OSPF, EIGRP, ISIS and BGP.
• Good knowledge on Network Terminating Equipment (NTE), EMSs, JDSU test sets.
• Performed switching technology administration including VLANs, Inter-VLAN routing, trucking, port aggregation and link negotiation.
• Excellent customer management/resolution, problem solving, debugging skills and capable of quickly learning, effectively analyzing results and implement and delivering solutions as an individual and as part of a team.
Willing to relocate: Anywhere

WORK EXPERIENCE

Sr Network Engineer
United Nations, NY - March 2016 to Present

Responsibilities:
• Installed and tested Cisco router and switching operations using OSPF routing protocol, ASA Firewalls, and MPLS switching for stable VPNs.
• Worked on Heterogeneous networks such as Frame Relay, Ethernet, Fiber, etc.
• Installed EIGRP and OSPF routing protocols on cisco routers.
• Prepared Check Point firewall configurations for conversion to Cisco ASA 5585-series firewalls.
• Primary Network Security Engineer for Fiserv Firewall/VPN Support and Management on Checkpoint (Crossbeam and VSX), PIX, ASA.
• Involved in Configuring and implementing of Composite Network models which consists of Cisco7600, 7200, 3800 series routers.
• Configured Routing protocols such as OSPF, BGP, RIP, static routing and policy based routing.
• Team member of Configuration of Cisco 7206 router with VPN and Configuration of Catalyst switches.
• Configured Nexus 7010 including NX-OS Virtual Port Channels, Nexus port profiles, Nexus Version 4.2 and 5.0, Nexus VPC peer links
• Deployed Cisco Nexus 5K Series to support Virtualization, SAN Infrastructure, and high performance computing environments.
• Implementation and Proactive Monitoring of MPLS (MPLS-VPN), QoS (Layer2 and Layer3) and BGP technology.
• Worked with TACACS+, RADIUS implementation in Access Control Network.
• Commissioned nine SRX 5800 cluster and integrated them into MTS network

• Developed redundant load-balancing design based on four MX 960 and two SRX 5600 using route leaking and policy routing

• Implemented VPLS and worked on Route Reflectors, Route Targets, LDP, L3VPN's, VRF's exclusively.

• Worked on inflobox to automate core network actions across the data center environment.

• Experience in inflobox DNS, DHCP, IPAM (DDI) core network services.

• Developed redundant load-balancing design based on four MX 960 and two SRX 5600 using route leaking and policy routing

• Implementation, Configuration and Support of Checkpoint (NGX R65, R70 and R71), Juniper Firewalls (SRX5400, SRX5600, and SRX5800.

• Configured Wireless Access Points, Controllers using Cisco Prime

• Experience working with market data networks and dealing with clients and deploying network designs

• Designed 10 gigabit networks using Cisco Nexus 7000 series switches, and Cisco 3800 series routers

• Working migration project, upgrading all service provider cisco 7609 circuits including Leased lines 64k - 155Mb (PPP / HDLC), Channelized lines (T1 / T3), Fiber Optic Circuits from OC12 up to OC 48 speed, Frame Relay and ATM to cisco ASR9k router; Layer 2 VPN, etc

• Experience with setting up MPLS Layer 3 VPN cloud in data center and working with BGP WAN towards customer.

• Involved in Configuring and implementing of Composite Network models consists of Cisco7600, 7200, 3800 series and Cisco 2950, 3500, 5500, 6500 Series switches.

• Responsible for Network Support Cisco ASA 5500 firewalls.

• Responsible for voice technology operations based on Cisco VoIP solutions with specific expertise in several areas including Cisco Call Manager, Unity voicemail, Windows Servers, Linux servers and router/switching/ gateway telephony technologies

• Managed the network devices (Routers, Switches, Cisco ACS, Cisco ISE, Cisco Access Points, Wireless Controllers) and maintained the inventory of the devices in the network using Cisco Prime

• Analyzed and tested network protocols (Ethernet, TCP/IP) using Wireshark tool.

• Experience using diagnostic security and networking tools such as NMAP, Wireshark etc.

• Utilize Wireshark, NMAP and Command Line Prompts daily.

• Troubleshoot traffic passing managed firewalls via logs and packet captures

• Involved in a project for a re-design of the LAN network (Cisco Catalyst 2960 and Nexus 5000 switches) and the virtualization of some systems

• Troubleshoot MPLS and BGP connectivity issues between SAP sites and various ISP providers.

• Working with vendors such as Cisco to address any configuration issues.

• Prior Experience with the Following Juniper Platforms is ideal: MX, EX, QFX and SRX and Junos Space.

• Worked with Juniper Net Screen 500/5200 and Juniper SRX 650/3600.

• Implemented VPLS and worked on Route Reflectors, Route Targets, LDP, L3VPN's, VRF's exclusively.

• Installed and tested Cisco router and switching operations using OSPF routing protocol, ASA Firewalls, and MPLS switching for stable VPNs.

• Worked a little on scripting languages like Python and Perl.

• Experience working with BGP, OSPF protocols in MPLS Cloud, deploying VPN Tunnels using IPsec encryption standards and configuring and implementing site-to-site VPN, Remote VPN.

• Worked with Python scripting for network automation in the organization.

• Worked on Heterogeneous networks such as Frame Relay, Ethernet, Fiber, etc.

• Deployed VPLS for DCI for spanning the VLANs across the datacenters to provide support for low latency and critical applications.

• Assist in layer 2 issues with the senior engineer as well as monitor the status of the network with Solarwinds for the LAN/WAN and Cisco Prime for the wireless APs.

• Prepared Check Point firewall configurations for conversion to Cisco ASA 5585-series firewalls.

• Created policies and procedures for CUCM, CUC and Automated Attendant MACD (move, add and changes)

• Primary Network Security Engineer for Fiserv Firewall/VPN Support and Management on Checkpoint (Crossbeam and VSX), PIX, ASA
• Redesigned Internet connectivity infrastructure for meeting bandwidth requirements.
• Worked on Juniper MX 480, MX960, worked as a tier 3 technical support engineer for all Juniper ScreenOS and JunOS-based SRX
• Configuring Voice Gateways (VG-224, VG-310), SIP Trunks and other Voice related devices
• Configured HSRP and VLAN trucking 802.1Q, VLAN Routing on Catalyst 6500 switches.
• Optimized performance of the WAN network consisting of Cisco 3550/4500/6500 switches by configuring VLANs.
• Experience with hardware load balancer administration and support, preferably with F5 and Cisco ACE load balancers.
• Experience in configuring Load balancers and Riverbed WAN optimizers.
• Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
• Monitored and analyzed Intrusion Detection Systems (IDS) & Intrusion Prevention System (IPS) to identify security issues for remediation.
• Configuration and troubleshooting of Cisco switches 2000, 3000, 6500, 7004, 7009, 7700 Series.
• Hands-on experience in the network management of circuits using TDM and Frame Relay network, performing configuration and provisioning management, fault management and performance monitoring

Environment: Cisco 7600/7200/3800 series routers, Cisco 2000/3000/6500/7004/7009/7700 Series switches, VLAN, Trunking, ASA, VPLS, Checkpoint, Frame Relay, MPLS, PIX, OSPF, VPN, SIP, WAN, UCCX (7.1), Firewalls, NMAP, WireShark, Juniper, Infoblox, TACACS, TACACS+, Python, Cisco, EIGRP, BGP, virtualization

Network Engineer
Lowes - Raleigh, NC - February 2015 to March 2016

Responsibilities:
• Worked in Configuration and extension of VLAN from one network segment to other segment between different vendor switches (Cisco, Juniper)
• Provided Technical support in terms of upgrading, improving and expanding the network.
• Providing technical security proposals, detailed RFP responses, security presentation, installing and configuring ASA firewalls, VPN networks and redesigning customer security architectures.
• Project to migrate/re-design 700+ customer connections (MPLS & Frame) out of retired
• Data center to new Juniper M120.
• Handled and organized all migrations, adds and changes related to infrastructure.
• Implement, and maintain Local/Wide Area Network over 13 branches.
• Configured RIP, OSPF and Static routing on Juniper M and MX series Routers.
• Configuration of NAT.
• Design and implement Catalyst/ASA Firewall Service Module for various LAN's.
• Innovated with support of Palo Alto for remote and mobile users and for analyzing files for malware in a separate (cloud-based) process that does not impact stream processing.
• Key contributions include troubleshooting of complex LAN/WAN infrastructure that include routing protocols EIGRP, OSPF & BGP.
• Implemented VPLS and worked on Route Reflectors, Route Targets, LDP, L3VPN's, VRF's exclusively.
• Perform hardware and software diagnostics, fault isolation and coordinate repairs and/or replacement of faulty equipment.
• Configured Client VPN technologies including Cisco's VPN client via IPSEC.

• Support design and planning of Juniper MX, EX, QFX network routing products within the Customer infrastructure.
• Configure switch VLANs and inter-switch communication. Build and setup network Laboratory.
• Configuring VLAN, Spanning tree, VSTP, SNMP on EX series switches
• Design and configuring of OSPF, BGP on Juniper Routers (MX960, MX480) and SRX Firewalls (SRX240, SRX550)
• Subcontracted to perform a migration from multiple Cisco Catalyst 6500's equipped with PIX Firewall Services Modules to Juniper SRX 5600's.
• Responsible for oversight of the engineering, maintenance, modification, construction of ISP/OSP fiber-optic plant and Wireless networks
• Actively involved in troubleshooting on network problems with Wireshark, identifying and fixing problems.
• Time to time upgrade network connectivity between branch office and regional office with multiple link paths and routers running HSRP, EIGRP in unequal cost load balancing to build resilient network.
• Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
• Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
• Deployment of Cisco 6500 switches in standalone and VSS modes with SSO and NSF
• Converted company's phone system from Avaya to CUCM 8.6 and later to CUCM 10.0.
• Supporting EIGRP, OSPF and BGP based network by resolving level 1 &2 problems of internal Sites.
• Providing daily network support for Global wide area network consisting of MPLS, VPN and point-to point site.
• Experience working on Cisco ASR 9001 & ASR 1006.
• Troubleshooting issues (CUCM/Unity/UCCX/ Analog GW/SIP/ SCCP/ H.323)
• Collaborative hybrid cloud solutions development based on Cisco UCS technologies
• Experience working with Network management software NSM.
• Design and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls.
• Implementing and Maintaining Network Management tools (Fluke Network, Nortel ENMS, JFFNMS, SNMP, MRTG, and NMIS)
• Monitoring and management of Cisco UCS C-series server.
• Configured network using routing protocols such as ISIS, RIP, OSPF, BGP and troubleshooting L2/L3 issues.
• Configuring ACL to allow only authorized users to access the servers.
• Maintain effective communications with vendors, peers and clients in resolution of trouble-tickets, equipment
• Return Material Authorizations, and support requests.
• Troubleshoot Hardware, Cisco IOS, install and configure Cisco routers and switches.
• Participated in on call support in troubleshooting the configuration and installation issues.
• Installation, Maintenance, Troubleshooting Local and Wide Areas Network by using ISDN, Frame relay, DDR, NAT, DHCP and TCP/IP.

Environment: Cisco 3640 / 1200 / 7200 / 3845 / 3600 / 2800 / 2600 / 3500 / 7613 Routers, Cisco 3750 / 3550 / 3500 / 2960 / 4500 / 6500 Switches, LAN, WAN, EIGRP, OSPF, RIP, BGP, F5 Load Balancer, VTP, DNS, VLAN, HSRP, HTP, IPV4, Nexus 5K, 7K, LTM, GTM

Network Engineer
EMC   -   Santa Clara, CA - October 2013 to January 2015

Responsibilities:
• Designed and implemented Cisco VoIP infrastructure for a large enterprise and multi-unit office environment. Met aggressive schedule to ensure a Multi-office reconfiguration project which was successfully delivered
• Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support

• Supporting EIGRP and BGP based PwC network by resolving level 2 &3 problems of internal teams & external customers of all locations.
• Upgrade Cisco Routers, Switches and Firewall (PIX) IOS using TFTP
• Updated the HP open view map to reflect and changes made to any existing node/object.
• Handled SRST and implemented and configured the Gateways, Voice Gateways.
• Studied and analyzed client requirements to provide solutions for network design, configuration, administration, and security.
• Configuring HSRP between the 3845 router pairs for Gateway redundancy for the client desktops.
• Configuring STP for switching loop prevention and VLANs for data and voice along with Configuring port security for users connecting to the switches.
• Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
• Modified internal infrastructure by adding switches to support server farms and added servers to existing DMZ environments to support new and existing application platforms.
• Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, Inter-Vlan routing, LAN security.
• Working directly with the ISP to support the network in case of any backbone failure.
• Worked on the security levels with RADIUS, TACACS+.
• Experience in the configuration of Virtual Chassis for Juniper switches EX 4200, Firewalls SRX-210, SRX-220, SRX-550
• Completed service requests (i.e. - IP readdressing, bandwidth upgrades, IOS/platform upgrades, etc.)
• Identify, design and implement flexible, responsive, and secure technology services
• Configured and tested the SIP trunking production environment. Implemented this new solution globally
• In depth knowledge of cisco ASR 9k, MPLS, IS-IS, OSPF, MP-BGP, VRFs and Multicasting.
• Experienced with Juniper: EX 2200, EX 4200, EX 4500, MX-480 and M Series, SRX210 and SRX240.
• Configured switches with port security and 802.1x for enhancing customer's security.
• Implementing and troubleshooting firewall rules in Juniper SRX 5400, 550, 5600 Checkpoint R77.20 Gaia and VSX as per the business requirements
• Monitored network for optimum traffic distribution and load balancing using Solar winds.
• Validate existing infrastructure and recommend new network designs.
• Created scripts to monitor CPU/Memory on various low end routers in the network.
• Experience on Multicast in a campus network by using IGMP and CGMP on Catalyst switches
• Installed and maintained local printer as well as network printers.
• Handled installation of Windows NT Server and Windows NT Workstations.
• Handled Tech Support as it relates to LAN & WAN systems

Environment: Net Flow, TACACS, EIGRP, RIP, OSPF, BGP, VPN, MPLS, CSM, SUP720, Ether Channels, Cisco 7200/3845/3600/2800 routers, Fluke and Sniffer, VPLS, M Series, SRX210 and SRX240), Juniper Firewall (SRX-210, SRX-220, SRX-550), Cisco 6509/ 3750/3550/3500/2950 switches, Checkpoint firewalls (SPLAT)

Network Engineer
C4i Technologies - Hyderabad, ANDHRA PRADESH, IN - June 2010 to September 2013

Responsibilities:
• Performed IOS upgrades on Catalyst 1900, 2900, 3500 series switches and 2500, 2600, 3600 series routers.
• Responsible for maintenance and utilization of VLANs, Spanning-tree, HSRP, VTP of the switched multi-layer backbone with catalyst switches.
• Actively participated in upgrading fast Ethernet, Layer 3 switched/routed LAN infrastructure from Cisco 3640 to Cisco 2811 ISR routers and switches at access level to 2950, 3550.

• Configuring/Troubleshoot issues with the following types of routers Cisco (7200, 6500, 4500, 1700, 2600 and 3500 Series), to include: bridging, switching, routing, Ethernet, NAT, and DHCP, as well as assisting with customer LAN, MAN, router/firewalls.
• Implemented and configured routing protocols like EIGRP, OSPF and BGP.
• Connected switches using trunk links and Ether Channel
• Assisted in network engineering efforts consistent with the infrastructure of an Internet Service Provider and Support of such network services. Helped in designing and implementation of VLAN for the new users
• Used Network Monitoring tool to manage, monitor and troubleshoot the network.
• Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture.
• Configured Cisco IOS Feature Set, NAT and Simple Network Management Protocol (SNMP) for Network Security implementation.
• Implemented redundant Load balancing technique with Internet applications for switches and routers.
• Support Network Technicians as they require training & support for problem resolution including performing diagnostics, & configuring network devices

Environment: Cisco 7200/3845/3600/2800 routers, Routing Protocols EIGRP, OSPF, BGP including VPN, MPLS and Ether Channels

Network Engineer II

Info Edge Solutions - Hyderabad, ANDHRA PRADESH, IN - June 2008 to May 2010

Responsibilities:
• Designed and implemented site-to-site DMVPN-MGRE tunnel with OSPF routing protocol.
• Configured an IPSEC tunnel with static routing protocol for eight remote VPN sites.
• Extensively Installed, Configured and performed troubleshooting of Cisco Routers (ISR4331, 4431)
• In-depth experience in the entire working of Cisco Catalyst 3850, 3750 and 2960.
• Team-member of the NOC and was meticulously involved in troubleshooting LAN/WAN issues.
• Prime Respondent for service request tickets in Remedy generated by the helpdesk in every aspect of technical support such as troubleshooting, maintenance, upgrades, patches and fixes.
• Setup and Management of Infoblox DNS IPAM for Microsoft DNS/DHCP and Inflobox grid manager to manage DNS forward and reverse Lookup Zones.
• Responsible for drafting, managing and installing Cisco firewalls policies from the ASDM.

Environment: Cisco Catalyst Switches (3850, 3750, 2960), Cisco Routers (ISR4331, 4431), Remedy, Inflobox, Cisco
Firewalls.

SKILLS

Catalyst (9 years), Cisco (9 years), DHCP (7 years), LAN (9 years), OSPF (9 years)

ADDITIONAL INFORMATION

Technical Skills:

Routers: Cisco 7600, 3800, 3600, 2900, 2800, 2600, 1800, 4400, ASR 9K, Adtran 908e, 3430, 4430
Routing: OSPF, EIGRP, BGP, RIP v1/v2, PBR, Route Filtering, Redistribution, Summarization, and Static Routing.
Switches: Nexus 2K/5K/7K, 9K Cisco Catalyst 2900, 3500, 3700, 6500, 4500, 3850, 3560, 3750, 2960

Switching: LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels, Transparent Bridging.

Network Security: Cisco ASA 5540, ACL, IPSEC, F5 Load Balancer, Checkpoint, Palo Alto

Load Balancer: F5 Networks (Big-IP) LTM 8900 and 6400.

LAN: Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet

WAN: PPP, HDLC, Channelized links (T1/T3), Fiber Optic Circuits, Frame Relay, VOIP

Gateway Redundancy: HSRP and GLBP

WAN Optimizer Riverbed Steelhead Appliance

DHCP and DNS Infoblox

Various Features & Services: IOS and Features, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP, FTP.

AAA Architecture: TACACS+, RADIUS, Cisco ACS.

Network Management: Wireshark, SNMP, Solarwinds