

NETWORK ENGINEER

Professional Summary

Around 6 years of experience in Networking and Security, including hands-on experience in providing network support, installation and analysis for a broad range of LAN / WAN/MAN communication systems. *Extensive knowledge of deploying & troubleshooting TCP/IP, Implementing IPv6, Translation from IPv4 to IPv6, Multilayer Switching, UDP, Ethernet, Voice & Data Integration techniques.

Core Qualifications

- Network Hardware:
- Cisco Routers (1900, 2800, 2900, 3800, 7200 and 7600)
- Switches (3560, 3750, 4500, 4900 & 6500)
- Nexus Hardware (2k 3k 5k 6k 7k 9k)
- Routing: Static Routes, RIP, EIGRP, OSPF & BGP
- Switching: VLANs, Dot1Q, VTP, STP, RSTP, VLAN Maps, HSRP, VRRP, GLBP, CEF, DCEF, Port Security
- Protocols: IPv4, IPv6, TCP, UDP, ICMP, DNS, DHCP, SNMP, SYSLOG
- VPN Technologies: IPSEC, SSL
- 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
- Networking Concepts : Access-lists, Routing, Switching, Subnetting, Designing, CSU/DSU, IPsec, VLAN, VPN and Wireless Technology
- Security Protocols : IKE, IPSEC, SSL-VPN, SSH
- Operating System : Windows 7/XP, Windows Server 2012/2008, Linux, Unix
- Languages: Python, C, shell scripting, Visual Basic to create macros in Microsoft Excel, CLI (Cisco Line Interface)

Experience

Network Engineer Oct 2012 to Current

Zayo Group 1/4 Allentown , PA

- 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 router.
- Design and configuring of OSPF, BGP on Juniper Routers (MX960, MX480) and SRX Firewalls(SRX240, SRX550).
- Experience manually testing, configuring and troubleshooting OSPF, EIGRP, BGP, VLAN's, VPC, Trunking, VTP, STP, PVST, RSTP, HSRP, 802.1q, and Ether-channels.
- Experience securing and managing remote access using various VPN technologies like IPSec, SSL, and GRE.
- Working knowledge of network monitoring/management tools like Wireshark, Cisco Prime, Net Flow.
- Involved in the configuration and maintenance of IPSec Site-Site VPN.
- Background in network design, including Wide Area Networking (WAN), Local Area Networking (LAN), Multiple Protocol Labeling Switching (MPLS), DS3.
- Reviewing all changes to network configuration for technical accuracy and provide solutions to Multi-Protocol Network problems.
- Involved in designing and commissioning WAN infrastructure for redundancy in case of link failure.
- Responsible for technical evaluation, troubleshooting, overall project management, problem solving and turn-up of the service with the ISP.
- Configuring and implementing routing protocols including RIP, TCP/IP, RIP v1/v2, OSPF, EIGRP, ISIS and BGP.
- Strong interpersonal, organizational communication, customer service & presentation skills.
- Performed professional level documentation using Visio diagrams.
- Working on a "Sprint Network Vision" project as a team member of Samsung TAC BH.
- Analyze and troubleshoot issues related to T1s, Fiber, Cisco ASR 9000 and CSR MWR 2941 series routers.
- Monitoring backhaul performance and make recommendation for possible service improvement using tools Cisco ANA and Cisco Prime management for wireless Cell site Router (CSR2941) and the Cisco's IP Aggregated router (ASR9010).
- Manually tested and configured Static, IGRP, EIGRP, RIP and OSPF Routing Protocols and performed Power on Self-Test (POST) on Cisco ASR9010 Routers.
- Implemented, configured BGP WAN routing, converting OSPF routes to BGP (OSPF in local routing).
- Implementing and managing traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).
- Complete understanding of IPv4 and IPv6 addressing schemes in each market and troubleshoot any issues related to sub-netting like duplicate IP's for 2 different sites etc.
- Responsible for all routing, switching, VPN, network security, Virtual Port Channels (vPCs) and server load balancing.
- Expert level knowledge in troubleshooting Network Connectivity issues in Local Area Networks (LAN) using Packet Capturing Methods (Wire Shark).
- Superior troubleshooting and technical support abilities with migrations and network connectivity.
- Used Wireshark to Capture and analyze SIP/SDP, RTP, TCP, VPC, UDP, IP Packets.
- Work on Web based protocols FTP, HTTP, TFTP, RTP, TELNET, SSH.
- Troubleshooting network performance issues, end user connectivity and working closely with technology suppliers and ISP carriers.
- Executed scripts using Xshell/Secure CRT and developed Method of Procedures for commissioning network elements as well as for software and firmware upgrades.
- Involved in installation and Commissioning of access network elements such as Base Stations Transceiver System(BTS), Base Station Controllers(BSC), eNodeBs, MSCs and Element Management System (EMS) servers operating on Linux.
- Work on LTE protocol stack MAC, RLC, S1AP, SCTP and MME, S-GW, P-GW, PCRF, HSS.

- Effectively provide training assistance and technical support to Sprint/Ericsson Managed Services on the live CDMA (3G) & LTE (4G) network.
- Troubleshoot severity 1/2/3/4 issues that arise with backhaul, RAN and Core network.
- On-Call support for various projects and dealt with support cases with TAC-BH teams.
- Monitoring Tools: Wireshark, Remedy, Cisco ANA, Cisco CCP, FTP and TFTP Servers, Secure CRT, XShell and Teraterm.

NOC engineer Mar 2012 to Sep 2012

Shutterfly, Inc. 1/4 Hamilton, MT

- Replaced core Dell switch with a Cisco 4500 series.
- Moved user network segment to new IP scheme using new VLANs.
- Prepared network connectivity for moving Call Center to new location.
- Configured DHCP on network switches.
- Built separate wireless SSIDs associated with VLANs.
- Modified wireless MAC filter for new laptops.
- Performed load balancing and application level redundancy by deploying F5 BIG-IP LTM 3900.
- Responsible for network routers, switches, and firewalls across multiple Data Centers.
- Support networking needs for 2000+ users in multiple offices, Call Centers, and remote users.
- Configure and support Site-to-Site and Remote Access VPN on Cisco router and firewalls.
- Configure and support NATs, access-lists, and routing on Cisco routers, and layer 2 and layer 3 switches.
- Configure and manage Data and Voice VLANs and access interfaces on Cisco layer 2 and layer 3 switches.
- Upgraded IOS images on network devices.
- Connected switches using trunk links and EtherChannel.

Education

Master of Science, Electrical Engineering Wireless comm/Networking Dec 2011 University of Texas 1/4 City, State, USA Electrical Engineering Wireless comm/Networking

Bachelor of Engineering, Electronics and Communication June 2009 Charotar Institute of Technology - Gujarat University 1/4 City, State, India Electronics and Communication

Willing to relocate.

Skills

3G, ATM, BGP, BSC, BTS, C, Call Center, CLI, Cisco router, Cisco, Cisco Routers, interpersonal, Hardware, CRT, CSU, customer service, Dell, Designing, DHCP, documentation, DNS, DSU, EIGRP, Ethernet, Fast Ethernet, Firewalls, Frame Relay, FTP, HTTP, ISP, IP, ISDN, ISIS, Local Area Networking, Local Area Networks, LAN, laptops, Linux, MAC, macros, managing, market, Access, Microsoft Excel, 2000, 2k 3, Windows 7/XP, NATs, network design, Network Hardware, network security, Network, Networking, Operating System, organizational, OSPF, Open Shortest Path First, PPP, presentation skills, Prime, problem solving, project management, Protocols, Python, RIP v, RIP, Router, Routers, Routing, scheme, SSH, Servers, scripts, shell scripting, SNMP, SONET, SSL, Switches, switch, T1, TCP/IP, technical support, TELNET, Troubleshoot, Troubleshooting, Unix, upgrades, VPN, Visio, Vision, Visual Basic, WAN, Windows Server

Additional Information

- Visa sponsorship required *Willing to relocate.