**Sr. Network Engineer**

**PROFESSIONAL SUMMARY**

* 10+ years of experience in networking, installing, configuring and maintaining network devices.
* Implementing IP addressing schemes, LAN/WAN protocols, IP Services, to meet network requirements in different environments.
* Hands on experience in configuring Cisco Catalyst 2**960, 3750, 4500, 6500 and Nexus 3000, 5000, 6000, 7000** series switches and Cisco **2600, 2800, 3600, 3800, 7200, 7600** series routers.
* Extensively worked on Cisco catalyst **6509** and implemented **VSS** along with **VDC** and **VPC** on Nexus **5505**, **7009** switches.
* Comprehensive expertise in the implementation of optimization, analysis, troubleshooting and documentation of **LAN/WAN** networking systems.
* Expertise 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.
* Implemented redundancy with **HSRP, VRRP, GLBP, EtherChanneltechnology (LACP, PAgP)** etc.
* Proficiently implemented traffic filters using **Standard and Extended access-lists, Distribute-Lists, Route Maps** and route manipulation using **Offset-list**.
* Hands on experience in deployment of **GRE tunneling, SSL, Site-Site IPSEC VPN** and **DMVPN.**
* Managed inventory of all network hardware, Management and Monitoring by use of **SSH, Syslog, SNMP, NTP**.
* Expertise in OSI layer model/TCP/IP.
* Extensive knowledge and experience of routing and switching protocols RIP, OSPF**,** EIGRP, BGP and VLAN.
* Good Knowledge in troubleshooting issues on NAT**.**
* Working knowledge on configuring access lists. Troubleshooting DNS/DHCP issues within the LAN network.
* Expertise in IP subnetting and worked on various designing and allocating various classes of IP address to the domain
* Extensive hands-on experience in working with complex routed LAN and WAN networks, and preparing technical documentation.
* Involved in troubleshooting network traffic and its diagnosis using tools like ping, traceroute, WireShark, TCPdump and Linux operating system servers.
* Sound knowledge of Routing and Switching concepts and MPLS design.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4, MPLS
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design.
* Experience configuring Virtual Device Context in Nexus 7010
* Have knowledge on various advanced technologies like VOIP, SIP, QOS, IPv6, Multicasting, and MPL
* 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.
* Configured and deployed QOS and defined class of service (COS) WRED and WFQ for bandwidth management.
* Primary responsibility is to design and deploy various network security & High Availability products lick Cisco ASA other security products
* Responsible for CheckPoint and Cisco ASA firewall administration across global networks.

**TECHNICAL SKILLS**

|  |  |  |
| --- | --- | --- |
| **Cisco Routers** | **:** | 2600, 2900, 3600, 3800, 7200 and 7600 |
| **Cisco L2 & L3 Switches** | **:** | 2900, 3560, 3750, 4500, 4900, 6500, Nexus 5K/7K |
| **LAN Technologies** | **:** | Ethernet, Fast Ethernet, and Gigabit Ethernet, SMTP, VLAN, Inter-VLAN Routing, VTP, STP, RSTP, Light weight access point, WLC. |
| **WAN Technologies** | **:** | Frame Relay, PPP, HDLC, (E1/T1/E3T3), DS3, OC192. |
| **Network Security** | **:** | Cisco ASA, ACL, IPSEC, Juniper SRX. |
| **OS products/Services** | **:** | DNS, DHCP, Windows (2000/2003/2008, XP), UNIX, LINUX. |
| **Routing Protocols** | **:** | IP v1/v2, OSPF, EIGRP, BGP, PBR, Route Filtering, Redistribution, Summarization, and Static Routing. |
| **Gateway Load Balancing** | **:** | HSRP, VRRP, GLBP |
| **Various Features / Services** | **:** | IOS and Features, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP and FTP. |
| **Network Management Tools** | **:** | Wireshark, Netflow Analyzer, Cisco Works, Ethereal, SNMP, HP open view, Ethereal. |
| **Security Server Protocols** | **:** | TACACS+, RADIUS |
| **Facilities** | **:** | DS0, DS1, DS3, OCX, T1/T3 |
| **Load Balancers** | **:** | Cisco CSM, F5 Networks (Big-IP) LTM 8900, Cisco ACE 4710. |
| **Operating Systems** | **:** | Windows (98, ME, 2000, XP, Server 2003/2008, Vista, Windows 7), Linux |
| **Firewall & Security** | **:** | Checkpoint, Cisco ASA, Palo Alto |

**PROFESSIONAL EXPERIENCE**

**Citi Bank, Warren, NJ Jul 2014 to Till Date**

**Sr. Network Engineer**

**Key Responsibilities:**

* Configuring **Static, IGRP, EIGRP, and OSPF** Routing Protocols on Cisco **1600, 2600, 2800, 3600, 7300** series Routers.
* 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.**
* 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** configuratio**n.**
* 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.
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500.
* Experience in migration of VLANS.
* Implementation of Access Lists for allowing/blocking desired traffic.
* Configuring VLANs/routing/NATing with the firewalls as per the network design.
* Configured EBGP load balancing and Ensured stability of BGP peering interfaces
* Worked on Route-Reflectors to troubleshoot BGP issues related to customer route prefixes also route filtering using Route-maps.
* Provided proactive threat defense with ASA that stops attacks before they spread through the network.
* Designed and implemented DMZ for Web servers, Mail servers & FTP Servers using Cisco ASA5500 Firewalls.
* Worked extensively on Cisco ASA 5500(5510/5540) Series, experience with convert PIX rules over to the Cisco ASA solution.
* Worked on migration of existing PIX firewall to ASA firewall, PIX OS upgrade from 6.3 to 7.0.
* Design and Implement DMZ for FTP, Web and Mail Servers with CISCO PIX 506, PIX515
* Worked extensively on Cisco ASA 5500(5510/5540) Series, experience with convert PIX rules over to the Cisco ASA solution.
* Building the VPN tunnel and VPN encryption.
* Mapped, Network Diagrams and physical identification in MS Visio.
* Updated documentation as necessary.
* Preformed IOS upgrades on cisco routers and switches.
* Worked with engineering team to resolve tickets and troubleshoot L3/L2 problems efficiently.
* Configured Cisco 2800, 3800 routers and 3750, 4500, 6500 switches as part of the implementation plan.
* Propose network redesign based on client hardware guidelines, network policies and individual site’s unique characteristics.

**Environment:**Cisco2948/3560/4500/3560/3750/3550/3500/2960 6500 switches Cisco 3640/1200/7200/3845/3600/2800 routers, Cisco Nexus 7K/5K/2K, Cisco ASA 500, Checkpoint, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP

**LAUSD, Los Angeles, CA July 2013 to June 2014**

**Sr. Network Engineer**

**Key Responsibilities:**

* Troubleshooting the TCP/IP networks for connectivity, outages and slow network issues and recommended appropriate and cost-effective solutions for the congestion.
* Network consists of Heavy Cisco equipment such as:
* Cisco 3560 2950 2924 switches,Cisco 6509 6513 5500 series Layer 3 switches, Cisco 3825 3640 7200 series routers, Cisco Pix firewall 500 series and Wireless Access points Cisco 1230.
* Worked on **F5 BIG-IP LTM 8900,** configured profiles, provided and ensured high availability.
* Worked on **F5** and **CSM** load balancers deploying many load balancing techniques with multiple components for efficient performance.
* Lead Engineer for Network refresh project for Multinational insurance company. Providing remote assistance for replacing exiting switches with new Cisco switches.
* Configuring routing protocols OSPF, EIGRP, RIP, MPBGP, LDP and BGPV4
* Configuring HSRP between VLANs, Configuring Ether-Channels, Port Channel on 6500 catalyst
* Build Logical design and Implementation of Wireless Solution
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 and Radware for the corporate applications and their availability
* Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with both Checkpoint and Cisco ASA VPN experience
* Responsible for Cisco ASA firewall administration across our global networks
* Experience with migration Hybrid based Cisco CatOS and Native Cisco IOS on 6500 switches.
* Configured various BGP attributes such as Local Preference, MED, Extended Communities, Route-Reflector clusters, Route-maps and route policy implementation.
* 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.
* Converting CatOS to Cisco IOS Config Conversion on distribution layer switches
* Configured various Router interfaces like ATM interface, T3 & Channelized T1 interfaces
* Configuring and troubleshooting CISCO catalyst 6509, 7609, 7613 with Supervisor cards, Cisco 3640, Cisco GSR 12416,21418(with PRP and RPR processors)
* Excellent **Troubleshooting Skills** and Customer Centric approach.
* Worked on Firewall Administration, Rule Analysis, and Rule Modification.
* Configuring and implementing F5 BIG-IP, LTM, GTM load balancers to maintain global and local traffic
* Hands on experience with Nexus Switches 2K, 5K and 7K.
* Responsible for Check Point and Cisco ASA firewall administration across global.
* Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with both Checkpoint and Cisco ASA VPN experience.

**Environment:** Cisco 3560/2950/2924/6509/6513/5500 switches, Cisco 3825/3640/7200 routers, VPN, BGP, OSPF, RIP, EIGRP, F5 BIG-IP, LTM, GTM, Nexus Switches 2K/5K/7K, VLAN, VTP, Checkpoint.

**Solar Turbines, San Diego, CA Oct 2009 to June 2013**

**Sr. Network Engineer**

**Key Responsibilities:**

* Configured IP RIP, PPP, BGP and OSPF routing.
* Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4. Configured IP access filter policies. Cisco CLI, Cisco works, Network Security, Network Analysis Tools
* Experience with Checkpoint Firewall policy provisioning.
* Identify, design and implement flexible, responsive, and secure technology services.
* Experience with Firewall Administration, Rule Analysis, Rule Modification.
* Troubleshoot traffic passing managed firewalls via logs and packet captures.
* Configured and resolved various OSPF issues in an OSPF multi area environment.
* Worked with telecom vendors in regards to network fault isolation.
* Hands-on experience with WAN (ATM/Frame Relay), Routers, Switches, TCP/IP, Routing Protocols (BGP/OSPF), and IP addressing.
* Installed different software on the systems. Install and managing network devices including Hubs, Switches.
* Layer 2 switching technology architecture, implementation and operations including L2 and L3 switching and related functionality. This includes the use of VLANS, STP, VTP and their functions as they relate to networking infrastructure requirements including internal and external treatment, configuration and security.
* Configuration and troubleshooting of Cisco catalyst 6509, 7613 with supervisor cards.
* Estimated Project costs and created documentation for project funding approvals.
* Managed various teams involved in site surveys, cabling specifications, Network equipment installation and configuration.
* Planned resources and presented project status to higher management.
* Deployed 7613 as PE and CE router and configured and troubleshooted the Edge Routers.
* Excellent troubleshooting knowledge on T1, T3, OC-3 and OC-12.
* Created and delivered internal trainings for BGP.
* Configured egress and ingress queues for ISP facing routers using CBWFQ.
* Generating RCA (Root Cause Analysis) for critical issues of layer1/layer2/layer3 problems.
* Ability to analyze, configure and troubleshoot networks.
* 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

**Environment:** Netflow, TACACS, EIGRP, RIP, OSPF, BGP, VPN, MPLS, CSM, SUP720, Ether Channels, Cisco 7200/3845/3600/2800 routers, Fluke and Sniffer, Cisco 6509/ 3750/3550/3500/2950 switches, Checkpoint firewalls(SPLAT).

**Torrent Power, Gujarat, India Oct 2007 to Sep 2009**

**Network Engineer**

**Key Responsibilities:**

* Connected switches using trunk links and Ether Channel.
* Responsible for maintenance and utilization of VLANs, Spanning-tree, HSRP, VTP of the switched multi-layer backbone with catalyst switches.
* 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
* Used Network Monitoring tool to manage, monitor and troubleshoot the network.
* Configured Cisco IOS Feature Set, NAT and Simple Network Management Protocol (SNMP) for Network Security implementation.
* Provided Level 1 Support for Broadband Connection to Virgin Media customer
* Worked as a Technical Support Executive under Virgin Media.
* Received inbound calls of technical nature, independently resolved customer complaints, concerns and inquiries regarding their Internet connection.
* Set up Home Network and provided troubleshooting and full support on virgin- media security Software (PC-guard).
* Troubleshoot a wide range of technical support issues and connectivity problems such as authentication, connection speed, e-mail configuration, and loss of synchronization.
* Experience in new employee mentoring, training and coaching.

**Chandra Net Pvt Ltd, Gujarat, India Jun 2008 to Sep 2009**

**Jr Network Engineer**

**Key Responsibilities:**

* Involved setting up the **TFTP server for backing up the IOS images** and configuration files of Cisco Routers and Switches and troubleshooting the file servers.
* Responsible for network evaluations, troubleshooting a variety of network problems, and implementing various software and hardware upgrades efficient performance.
* Troubleshoot Cisco hardware: Inspected devices, Read device LEDs, loose connections, cards, dirty devices, interior IOS upgrade, switch configuration usage of Visual Switch Manager, switch port configuration, port monitoring. Watch over Flooding Control/Network port.
* Designed IP addressing schemes, VLAN’s, subnetting and Trunking to meet requirements.
* Preformed installation, cabling and cable testing.
* Setup Access list and configured Firewall.
* Designed and implemented IT security policies and networked backup systems.
* Documented and maintained technical diagrams, documented logical and physical topology, and other IT procedures.
* Reviewed, approved, procured various IT hardware and software products to fulfill strategic and operational needs of various departments.
* Worked with management and various departments to develop procedures and troubleshoot problems as they arose.

**EDUCATION**

* Bachelors of technology in Electrical Engineering