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**Sidhu**

**Sr. Network Engineer**

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**PROFESSIONAL SUMMARY:**

* 6 plus 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.
* Design and configuring of OSPF, BGP on Juniper Routers (MX960, MX480) and SRX Firewalls (SRX240, SRX550)
* Comprehensive working knowledge of Cisco ACI, Cloud virtualization, TCP/IP, HTTP, UDP, SSL, BGP, MPLS, LDP, PIM, IGMP protocols.
* Responsible for Check Point and Cisco ASA firewall administration across global networks
* Good experience in configuring and troubleshooting CISCO Nexus switches like 7000, 5000 and 2000 series in Data Center Environment.
* Implemented, Tested and troubleshoot Juniper Firewall to establish VPN network to Datacenter and wireless for local network.
* Experience in working with Cisco Nexus Switches and Virtual Port Channel configuration
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability
* Strong grasp of current and future technologies including TCP/IP, IPv4/v6, RIP, EIGRP, OSPF, BGP, Frame Relay, ACL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS) 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 with Firewall Administration, Rule Analysis, Rule Modification.
* Worked on Load Balancer F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability
* Attend and participate in system-level design meetings in order to address testing issues early in the software development process.
* Utilizing Cisco 5508 wireless controllers and 1131, 1142, 2602, 2702, 3602, 3702 LWAPP access points.
* Designing, configuring, implementing and documenting wireless networks for St. Joseph Health care.
* Experience in configuring and troubleshooting Juniper SSG and Net screen series Firewalls, Palo Alto firewalls, McAfee SIEM, Symantec Endpoint protection.
* 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.
* 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
* Experience developing and maintaining comprehensive system test plans
* Create testing tools and scripts as needed to support system level testing activities.

**CERTIFICATIONS:**

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

**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, juniper SRX, MX, EX Series Routers and Switches. |
| **Routing** | OSPF, EIGRP, BGP, RIP, RIP-2, PBR, Route Filtering, Redistribution, Summarization, Static Routing. |
| **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 Net screen Firewall ISG100, 2000, SSG, SRX. |
| **Load Balancer** | ACE Module, GSS & F5 LTM |
| **LAN Technology** | Workgroup, Domain, HSRP, DNS, DHCP, Static, VLAN, STP, VTP, Ether Channel, Trunks. |
| **WAN technology** | Frame Relay, ISDN, ATM, MPLS, leased lines & exposure to PPP, 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. |
| **Wireless & Wi-Fi** | Cisco wireless access points: AIR-CAP3702, AIR-CAP3602, AIR-CAP3502, AIR-CAP2602, AIR-CAP2702, AIR-LAP1142 and WLC 5508, 2504, 4404 and WLC 4402 wireless LAN controllers  Catalyst 6513, 6509, 4006, 4003, 3750, 3560, 3550, 2950G switches |

**PROFESSIONAL EXPERIENCE**

**T-Mobile , Atlanta GA. Oct 2016 - Till Date**

**Designation: Sr. Network Engineer**

* Responsible for configuration of routers and switches for deployments.
* Responsible for design and implementation of network deployment to remote sites.
* Configuration of DNS records, Infoblox DHCP configurations, Voice Gateway deployments.
* Configured Ether-channels between Core layer and Distribution layer switches using Link Aggregation Control protocol (LACP) and to increase the link speed and provide redundancy for high availability.
* Hands-on experience with Ether Channel, Spanning Tree, Trunking, ACLs, Syslog. Experience in the setup of HSRP, Access-Lists, and RIP, EIGRP, and tunnel installations.
* Utilizing Cisco 5508 wireless controllers and 1131, 1142, 2602, 2702, 3602, 3702 LWAPP access points.
* Deploying the old Access Points (1142 and 1242) and installing the new 3702 access points.
* Has extensive Knowledge on Cisco Wireless LAN Controllers.
* Performing a wireless site survey to implement controller-based wireless network.
* Utilizing Cisco 5500 series controllers and 3702, 3602 and 3502 LWAPP access points.
* Configured static NAT, dynamic NAT, dynamic NAT overloading and experience in TACACS, XTACACS and TACACS+ servers.
* Responsible for Check Point and SRX firewall administration across our global networks.
* Experience with Network Redesign for Company Campus Locations and Moving from 6500 based Data Center to Nexus based Data Center.
* Involved in configuring SSG-140, Cisco ASA firewall and Check point firewall.
* Responsible for everyday tasks related to SRX Firewalls, Space Changes, and Iron Port Proxy Traffic.
* Installation of Palo Alto (Web Application and URL filtering, Threat Prevention, Data Filtering).
* Implementing security policies using Cryptography, ACL, IPsec, VPN, and AAA Security on different series of routers.
* Experience in implementing and configuring F5 Big-IP load balancers 6400-LTM (V9). Designed, installed, and maintained various LAN/WAN technologies and applications connecting remote sites to Corporate headquarters.
* Configured Easy VPN server and SSL VPN to facilitate various employees&#39; access internal servers and resources with access restrictions.
* Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks.
* Responsible for executing the implementation and service around critical corporate network(s) (LAN and WLAN).
* Summarized and presented the test results to project management team every week.

Involved in Switching Technology Administration including creating and managing VLANS’s, Port security, Trunking, STP, Inter Vlan routing, LAN security etc.

* Implemented with Cisco Layer 3 switches 3750, 4500, 6500 in multi VLAN environment with the use of inter-VLAN routing,
* HSRP, ISL trunk, ether channel.
* Conversions to BGP WAN routing. Which will be to convert WAN routing from OSPF to BGP (OSPF is used for local routing only) which involves new wan links.

**CHG , Boca Raton, Florida Jan 2015 – Sep 2016**

**Designation: Network Security Engineer**

* Implement Cisco Works 2000 device to manage Cisco routers, switches, PIX and ASA firewall, Access Points, Concentrators.
* Worked on Extensively on Cisco Firewalls, Cisco PIX (506E/515E/525) & ASA 5500(5510/5540) Series.
* Integrate VoIP with PSTN and setup voice Gateway ensuring QOS for Cisco based Voice over IP and CDR for voice call Accounting.
* Designed and Implemented Wireless Local Area Networks (WLAN), including development of configurations based upon High-Level Designs and Plan of Record.
* Developed low-level LAN/WAN/WLAN design documentation.
* Involved in troubleshooting of Cisco Telepresence, Cisco Meeting place, etc.
* Administration and diagnostics of LAN and WAN with in-depth knowledge of TCP/IP, NAT, PPP, ISDN and associates network protocols and services.
* Installed and designed four PIX 525 and two ASA 5505 in client areas. Notwithstanding that, arranged two PIX firewall for the Guest access.
* Established IPSEC-VPN tunnels with ASA 5500 series Firewall between some branch offices & headquarters.
* Managed the security infrastructure of the service provider which includes ASA 5585, 5540, 5520, Cisco IPS 4270, Cisco ACS 4.2 & 5.2
* Involved in setup of Cisco 6500 ACE switches.
* Configuring IPSLA screen to track the divers.
* Experience with converting PIX rules over to the Cisco ASA solution.
* Maintain Security policy by monitoring PIX firewalls (515 and 520).
* Used DHCP to automatically assign reusable IP addresses to DHCP clients.
* Experience configuring Virtual Device Context in Nexus 7010.
* Experience configuring BGP VRF, FCoE, FC, PIM in Nexus 9000
* Experience in Configuring, upgrading and verifying the NX-OS operation system.
* Experience in working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a flexible Access Solution for datacenter access architecture.
* Set up and troubleshoot secured wireless access points (WAP) and wireless LAN controller (WLC) for broadband internet.
* 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, and EIGRP for increased efficiency.
* Implementation of HSRP, IPsec, Static Route, IPSEC over GRE, Dynamic directing, DHCP, DNS, FTP, TFTP, RAS.
* Configured Cisco Catalyst Switch 3560.
* Install and manage Cisco Catalyst Switches 3500XL Series, Cisco Catalyst 3560 Series, Cisco 3750, 3600, 2600 routers, etc.
* Migrated Servers from 6500 Platform to Nexus without any application outage.

**Beam Broadband, Hyderabad Nov 2012 – Dec 2013**

**Designation: Network Admin**

**Roles & Responsibilities:**

* Design and execution of establishment and setup of VPN/IVPN, LAN/WAN according to hierarchical prerequisites.
* Worked on dispatching the STM 4 connections on GSR Router 12404 and 12406.
* Troubleshoot of Leased Lines like STM4, DS3, E1 Links, Metro, NLD ILD Services and RF joins.
* Troubleshooting on the gadgets by remote login to focus the RFO (Reason for blackout) and RCA (Root cause investigation) to minimize the outcomes of glitches.
* Equipment Installation/Removal in the NOC.
* 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.
* Configured RSTP, LACP and VTP on Nexus devices.
* 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.
* Performed exchanging innovation organization including VLANs, between VLAN directing, Trunking, STP, RSTP, port total & join transaction.
* Responsibilities additionally incorporate specialized documentation of all overhauls done.

**Redcentric solutions private limited, Hyderabad May 2011 – Oct 2012**

**Designation: Network Admin**

* Prepared Engineering documents and Network diagrams in Microsoft Vision.
* Designed VLAN’s and set up both L2 and L3 logicals 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.
* Managing all hardware equipment and its warranty.
* Ensuring all cable nodes terminated within specification on CAT 5 and CAT 6;
* Clarifying a client’s VMware and Windows Server 2003/2008R2 specifications, understanding their work practices and the nature of their business.
* Supervising the wire management team and cable pullers.
* Implemented cable multi-service operator (MSO) to capture traditional Telco subscribers with IP telephony and provide relevant QOS.
* 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.
* Configure VRRP & GLBP and VLAN Trunking 802.1Q & ISL, STP, Port Security on Catalyst 6500 switches.
* Updated the HP open perspective guide to reflect and changes made to any current hub/object.
* Identifying specialized issues and fixed equipment and programming identified with LANs/ WANs, distinctive sort of workstation (PC/ MAC).