**Sandesh Jung Thapa  
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**Summary**

* Expertise of 6 plus years with rich Computer Networking experience. Solid understanding of Designing, Implementation, Administration, Operational and troubleshooting of enterprise data networks.
* **Troubleshooting LAN, WAN**, Call Manager/Unity connection, Voice mails, calling issue, vm pin, IPT voice issues, get simple, isolate, and escalate isolation.
* Implementing & troubleshooting **Cisco 2900, 3600, 3900, 7200, 7600** series routers, CAT OS **2960, 3560, 3750, 4500, 6500** series switches and **Nexus 2k, 5k, 7k** series switches.
* Implementation of Nexus platform **7k, 5k** series and deploying various advance features like FEX, VPC, VDC & OTV.
* Expert level configuration of Layer 2 technology including **VLANS, Trunking, STP, RSTP, PVST, MST, VTP** in addition to port-security, Uplink fast, Backbone fast, Port fast, BPDU guard & filter and Ether channel including **LACP** & **PAGP** negotiations.
* Extensive Knowledge in **TCP/IP** and **OSI** models.
* Expert level knowledge of Cisco network security (**IDS, ASA 5500 Firewall**), network redundancy (**HSRP, GLBP** and **VRRP**).
* Knowledge in Cisco UCS Virtualization, VMware, HP C7000 Blade Server's.
* Experience in LAN/WAN/WLAN, VOIP/UC systems, voice and data network lines, license and maintenance contracts and audio /Web /Video conferencing platforms.
* Upgraded IOS images on Cisco ASA Firewalls and migrated polices from Cisco ASA to Palo Alto firewalls.
* Security policy review and configuration in Palo Alto and Junipers Firewall in US offices and Datacenter.
* Designed and configured of OSPF, BGP on Juniper Routers and SRX Firewalls.
* Implemented Positive Enforcement Model with the help of Palo Alto Networks.
* 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.
* Failed over Cisco ASA and Palo Alto Firewalls for maintenance and redundancy purposes.
* Good knowledge of Checkpoint Firewalls and hands-on with Palo Alto Firewalls such as 3000 and 5000 series.
* Configuring security policies and procedures using Access Control List (ACL), Route Maps, Offset lists, Prefix Lists.
* Experience in Implementing and troubleshooting OSPF, EIGRP, BGP routing protocols and Policy based routing.
* Experienced in working with Session Initiation Protocol (**SIP**) Trunking for voice over IP (**VoIP**) to facilitate the connection of a Private Branch Exchange (**PBX**) to the Internet.
* Managed inventory of all network hardware, Management and Monitoring by use of **SSH, SYSLOG, SNMP, NTP, NAT, PAT** and dealt with the **DOS** attacks and Flooding attacks.
* VPN implementation and troubleshooting for remote site and External clients.
* Well versed with **AAA** configuration using **TACACS+**&**RADIUS** server.
* Strong troubleshooting skills on Cisco LAN switch environment including WAN infrastructure.
* Worked on **F5 BIG-IP Load balancer LTM/GTM** for application redundancy and high availability.
* Worked on **T1/E1/T3** technologies and different **LAN & WAN** technologies.
* Proficient in using MS Office- Visio, Excel, Word for documentation.
* Excellent inter-personal skills with an ability to work in a team of large members and also with minimum supervision necessary.

**TECHNICAL SKILLS:**

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| **Routers** | Cisco 1900, 2600, 2800, 2900, 3600, 3800, 3900, 7200, 7600 |
| **Switches** | Cisco Catalyst 2960, 3560, 3750, 4500, 6500 & Nexus 2K/5K/7K |
| **Routing** | OSPF, EIGRP, BGP, RIP v1/v2, Route Filtering, Redistribution, Summarization& Static Routing |
| **Switching** | VLAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels, Transparent Bridging |
| **LAN** | Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet |
| **WAN** | PPP, HDLC, Channelized links (E1/T1/E3/T3), Fiber Optic Circuits, Frame Relay, MPLS |
| **Protocol** | IP, TCP, UDP, ICMP, NAT, DHCP, SNMP, IPSEC, SSL, HTTP, SSH, DNS, PAT |
| **Load Balancer** | F5 Networks (Big-IP) LTM 6900 and 3900 |
| **Network Security** | Cisco ASA 5540, ACL, IPSEC |
| **Network Management Tools** | Wireshark, Network analyzer, GNS3, Tera term & Putty |
| **Gateway Redundancy** | HSRP, GLBP, VRRP |
| **AAA Architecture** | TACACS+, RADIUS |
| **Operating System** | Windows, Linux |

**Professional Summary:**

**Network Engineer**

**Molina Healthcare - Long Beach, CA July 2016 to Present**

**Responsibilities:**

* Installed and configured 6509 Cisco Catalyst Switch, creating VLANs and assigning ports to the VLAN, configuration of routing protocols such as OSPF, EIGRP and RIP.
* Facilitates and supports the architecture and implementation of the VA Network Operations Center's VoIP system.
* Configuration and maintenance of Palo Alto Firewalls.
* Creation of Standard Operating Procedures for VoIP applications and instructs users on the VoIP phones and desktop agent.
* Upgraded the IOS on the 6500 switch and saved the old system configuration and running-configuration.
* Worked on Configuring and troubleshooting routing protocols like OSPF, BGP and EIGRP on Cisco routers
* Configured EIGRP, RIP, OSPF, BGP and static routing, MPLS WAN connectivity, Frame relay Wan Connectivity and Telnet and SSHv2 sessions.
* Integrated Informacast into Call Manager and setup VMware InformaCast server and linked altogether to the digital public-address system.
* Configured user Voice Mail Profiles in Cisco Unity Connection and users profile Phone Control.
* Configured and installed Juniper and Avaya switches and routers
* Performed Troubleshooting, upgrades, and administered multiple vendor systems platform and maintaining system applications.
* Configured, upgraded, monitored a verity of products using several software platforms for Alcatel, Avaya, ADVA, Ciena, Cisco, Fujitsu and Juniper.
* Successfully upgraded End of Life (EOL) Citrix Netscalers 9010 to 8005, 12000 to 11515, F5 LTMs 3400, 6800 to Citrix Netscaler 8005 and EOL Citrix GSLBs 7500, 9500 to 8005 without any severity 1/2 outages spanning 160 countries.
* Manage, update, and support Avaya IQ, AES, Aura Msg, Wallboard, CAM w/ One-X Agent, and System Manager.
* Channel Banks, Servers and Routers, and LAN/WAN also Voice Mail Systems, Symposium, (Star Talk, Meridian Mail, Key Voice, Call Pilot, Amanda, Octel, Audix, and other Systems)
* Implemented WAN network technologies like MPLS and Frame Relay, switching technologies like STP, switch and VLAN security on L2 and L3 layer switches.
* Provided BGP routing protocols for implementing multi-homing connection between two ISP's and provided traffic flow to certain areas.
* Provided monitoring, management, event correlation and administrative support for the Ameriprise corporate voice and data network.
* Provided installation and initial user configuration of NEXUS 7K switches at the Data Center and providing IP addressing and different user session priorities on the switch.
* Carried out Route-redistribution between different routing protocols like OSPF, BGP, EIGRP for increased efficiency.
* Provided an IP Addressing scheme using VLSM and maintained VLAN table, and implemented DHCP server for assigning IP address to various connecting devices.
* Worked on Wireless LAN connectivity issues.
* Enhanced network performance by Migrating configurations between Integrated Services Routers (ISR) G2 Routers.
* Discontinuation of Nortel 61C Telephony and migrating to Avaya (Aura) IPT PABX (GW450, CM6.2 s8800, AES6.2) and contact center (AAEP, WFO, CMS).
* Installs, configures and maintains Juniper EX series switches and SRX, MX, and M series routers
* Implemented Port Security - MAC limiting, DHCP Snooping and IP source guard on EX series switches to make the network invulnerable to attacks
* Reduced the number of managed devices from 120 to 15 by implementing Virtual Chassis technology using Juniper EX4200 switches.
* Deployment of enterprise firewalls (Palo Alto network, Cisco ASA, Checkpoint) in production environment.
* Complete upgrade of U.S. Robust modem to ShopperTrak TS600 modem at Payless store
* Improved labor scheduling efficiency by Installing Orbit 5 Retail IP System to count pedestrians/shoppers foot traffic at Payless store
* Installed Point of Sales (POS) Workstations and joined them to the network at Wal-Mart
* Installed Cisco ESW 540 Switch using Cisco Configuration System software to accommodate network devices such as IP Phones.
* Implemented Static NAT and PAT for internet users
* Designed and Implemented DMZ for FTP, Web and Mail Servers with CISCO PIX 525 and PIX515E
* Configured NAT and PAT on the Cisco PIX Firewalls for the Internal Systems
* Extended support and troubleshooting for the field technicians at the remote sites.
* Supported remote location with site-to-site VPN, Remote access VPN such as IPSEC.

**Environment:** Cisco 2600, 2800, 3600, 3800, and 7200 series routers, Cisco 2950, 3550, 3560, 6509 Catalyst Switches, ASA 5510 firewall, Juniper SRX240, Juniper EX4200, ESW Switch, VMware, PIX 525, PIX 515E, U.S. Robust modem, ShopperTrak TS600 modem, Fujitsu POS, Orbit5 Camera

**Network Engineer**

**T-Mobile - Richardson, TX May 2014 to June 2016**

**Responsibilities:**

* Network design of gigabit Ethernet that includes Cisco nexus 7000 series switches environment, configuration and implementation of NGX firewall and Cisco 3600 series routers.
* Upgraded load balancers from Radware to F5 BigIPv9 load balancer to improved functionality, reliability and scalability in the system.
* Managed the F5 BigIP GTM/LTM appliances to include writing iRules, SSL offload and everyday task of creating WIP and VIPs.
* Involved in configuration of access-control lists on juniper and Palo Alto firewalls for proper network routing and B2B connectivity.
* Configured and implemented routing protocols such as RIP, OSPF and Static routing on Juniper M and MX series Routers.
* Move AV Scanning Software for Vmware servers to prevent Processor Storming issues. Est. 3,200 virtual servers.
* US Telephony Trunking and International Calling CRP ~90K USD.
* Mobile Telephony Cost Reduction Implementing CIPC for International traveler CRP ~70K USD.
* Upgrade and Virtualization of Nogales Plant Call Manager telephony systems.
* Relocated several LTM, Net scalers and GSLB from One DC to other DC in internal and DMZ environments.
* Configuring STP for switching loop prevention and VLANs for data and voice along with Configuring port security for users connecting to the switches.
* Configured Virtual Chassis for Juniper switches EX-4200, Firewalls SRX-210
* Performs service and installation of Nortel phone system with Cisco VoIP digital system.
* Creation of Standard Operating Procedures for VoIP applications and conducts group user training on the VoIP phones and desktop agent
* Expertise knowledge on Cisco Layer 3 switches.
* Designed and configured OSPF, BGP on Juniper Routers and SRX Firewalls
* Managed routing protocols of EIGRP, OSPF and BGP at the customer location.
* Designed and Implemented network design using TCP/IP.
* Worked on FTP, HTTP, DNS, DHCP servers in windows server-client environment with resource allocation to desired Virtual LANs of network.
* Worked on Palo Alto Firewalls including PA 5000 and PA 3000 series.
* Worked in management of DNS for DMZ/External servers manually.
* Monitored Network transmission using Cisco Works 2000 and Wireshark.
* Configured and implemented VPN Tunnels using IPSec encryption standards.
* Worked on troubleshoot, maintenance of Juniper switches and SRX Firewalls.
* Upgraded NX-OS to version 6.1 on the cisco Nexus 7010.
* Worked on HSRP/VRRP for load balancing.
* Worked on Installation, configuration and troubleshoot of Cisco wireless network, Wireless LAN controllers.
* Worked on Data, VoIP, security as well as wireless installations and technologies
* Worked on Management, Installation, configuring and troubleshooting of Proxy, DHCP, DNS, RAS, VPN and Linux servers.
* Supported nationwide LAN infrastructure consisting of Cisco 4510 and catalyst 6513
* Worked on Datasource and Multi-Datasource setup to support application needs through WLST automation.

**Environment:** CISCO 7200/3845/3600/2800 routers, Fluke and Sniffer, CISCO 6509/ 3750/ 3550/ 3500/ 2950 switches, Checkpoint firewalls(SPLAT), Net flow, VMware, TACACS, EIGRP, RIP, OSPF, Palo Alto Firewalls PA5000, BGP, VPN, MPLS, CSM, SUP720.

**Network Engineer**

**Citigroup - Regent Campus, Irving, TX Jan 2012 to Apr 2014**

**Responsibilities:**

* Responsible for implementing, engineering & level 2 support of existing network technologies / services & integration of new network technologies / services.
* Building large scale Network environment using routing protocols like OSPF, EIGRP, and BGP.
* Configuring route redistribution between EIGRP and OSPF.
* Involved in Network Designing, Routing, DNS, IP Subnetting, TCP/IP protocol.
* Performing Route Filtering and Route Manipulation by applying distribute-lists, route-maps & offset lists.
* Diagnose MPLS protocol problems including VRF and COS issues to full resolution.
* Providing Layer-3 redundancy by implementing HSRP in the network.
* Hands-on experience in implementation and troubleshooting of BGP version 4, OSPF, IPV4 and Ethernet Protocols.
* Managing various VLANs, IP addressing for various subnets, VLAN Trunking between various access-switches.
* Used Load Balancers F5 Big-IP6900 and 3900between the servers inside the Network and in the Server Farm.
* Performance fine tuning and maintaining customer network devices to provide high availability for the applications, proper bandwidth utilization and to avoid network congestion.
* Configuring Standard and Extended Access Control Lists (ACLs) and Firewalls.
* Designing and Implementing VPN and remote access support.
* Pro-active Monitoring and Alerting of client's network for any alarms.
* Testing and validating new solutions in lab before deploying them to customers.

**Environment:** CISCO 3750/3550/3500/2960 switches and CISCO 12000/7200/3845/3600 routers, CISCO ASA5510, Checkpoint. Juniper firewalls 5GT, 208, SSG 5, 140, 550, 550M, NSM, IDS/IPS, Vulnerability Assessment tools like Nessus, Red Hat, Solaris, Juniper VPN's, SSL.