**Shah\_SK**

**Sr.Network Security Engineer**

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**Professional Summary**

* **Around 8 years of experience in the field of Networking** with strong and extensive knowledge of Design, configuration, implementation, operation, and support of Cisco Routers, Switches, and VPN devices.
* **Experience working with Nexus 7010, 5020, 2148, 2248 devices** and converting Cisco 6500 IOS to Cisco Nexus NX-OS in the data center environment.
* Expertise in planning, designing, installing, and configuring of Cisco Catalyst **6500, 3700, 3500, 2900** series switches, Cisco nexus **7000, 2000** series, Cisco 2600, 3600, 3900, 7200, 7600, GSR 1200 series routers and Cisco 4402, 4404, 5508 Wireless LAN Controllers.
* In-depth knowledge and hands-on experience on IP addressing, subnetting, VLSM, ARP, RARP, Ping concepts.
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as **VLAN** Trunks, **VTP**, Ether channel**, STP**.
* Have hands-on experience in setting up **LAN** and troubleshooting related issues. Have **WAN** awareness, assisted in setting up and troubleshooting various **WAN** related issues, including frame relay and **ATM** technologies.
* Extensive knowledge in configuring and troubleshooting of protocols BGP, **EIGRP, OSPF, MPLS, IS-IS**
* Experience of implementing and troubleshooting Switching Technology including **VLAN**s, Port Security, Trunking, **STP**, Inter-**VLAN** Routing, **LAN** security etc.
* Experience in dealing with individuals and enterprise customers. L1 and L2 customer support for network troubleshooting.
* Configured static **NAT**, dynamic **NAT**, inside global address overloading, access-lists.
* Expert knowledge in implementing filters on routes using Standard and Extended access-list.
* Extensive knowledge of OSI and various network protocols **(DNS, DHCP, TCP/IP, FTP, TFTP, UDP, ICMP, IPv4, IPv6, NFS, HTTP, SNMP** etc**.)**
* Experience with **VoIP** and telecom equipment, standards and technologies.
* Negotiate VPN tunnels using IPsec encryption standards and configured and implemented site-to-site VPN, Remote VPN. Experience in designing **MPLSVPN** and QoS for architecture using Cisco multi-layer switches.
* Provided proactive threat defense with **ASA** that stops attacks before they spread through the network.
* Team player and self-starter. Demonstrated the ability to finish tasks within deadlines. Worked and escalated problems effectively to meet customer **SLA**.
* Experience with convert Checkpoint **VPN** rules over to the Cisco **ASA** solution. Migration with both Checkpoint and Cisco **ASA VPN** experience.
* Experience in Configuration of all **Palo Alto Firewall models** such as PA-3k and PA-5k, centralized management system (**Panorama**) to manage large scale firewall deployments.
* Knowledge in configuring **Identity Service Engine** such as AD and LDAP integration, High availability, MAB, Dot1x, Dynamic VLAN, Web Authentication and Profiling.
* Knowledge with **802.11x** wireless technology.
* Network monitoring experience with **Negos,Solarwind,Splunk and App** dynamics.

**Professional Experience**

**Wells Fargo - Tempe, AZ June2016 – Till date**

**Sr. Network Security Engineer**

Responsibilities:

* Involved in completed **LAN, WAN** development including IP address planning, designing, installation, configuration, testing and maintenance.
* Contribute to Network Design, Integration, IP address design and optimization.
* Involved in configuring Cisco routers and switch administration with enterprise level Cisco Routers such as Cisco **ASR1004, 7200** series, **3800** series, **3700** series, **2800** series, and Cisco catalyst series switches like **6500, 3750** and **4500**.
* Technical support of Cisco Nexus switch and Cisco router using different troubleshooting protocol. Managed Cisco router and switches including performing installation, upgrades, configuration and management.
* Handled the network infrastructure of **NOC**/Data Center **LAN/WAN**, migration and configuration of network switches and firewalls. Addressing performance bottlenecks and ensuring maximum network efficiency and uptime.
* Configured site-to-site and remote site **VPN** using Cisco routers to Cisco routers, **ASA** firewall to **ASA** Firewall, Cisco Router to **ASA** Firewall and troubleshoot and modify existing **VPN**.
* Configured **ASA 5500-X** Series firewalls to provide highly secure and high performance connectivity between the site locations
* Configured and modified **ACL** rules (extended ACL) in firewall and router.
* Worked primarily on **F5 LTM**, checkpoint and Palo Alto. Main task is to configure firewall policies, LTM profiles, VIPs, pools, iRules from the scratch on the devices placed in the Data centers.
* Maintain, monitoring, and set up alerts for Solarwinds monitoring for company
* Worked with Palo Alto firewalls **PA5050** using Panorama servers, performing changes to monitor/block/allow the traffic on the firewall and URL filtering.
* Configured **App ID**, **User ID**, and Fault-Tolerance on Palo Alto firewalls.
* Experience in creating **IP-SEC VPN** tunnels between different branch offices.
* Exposure to wildfire advance malware detection using **IPS** feature of Palo Alto.
* Experience working with Bluecoat WAN Accelerator, Bluecoat Packet shaper and Bluecoat Proxy.
* Worked with implementation of Cisco Meraki wireless environments.
* Configuring High availability on Cisco WLC's, adding Access points on Cisco wireless controller.
* Migrated network connections from unsecured connections to secured connections. Such as Internet **VPN** to **MPLS** networks as main connections to the **MPLS** network.
* Experience in configuring and troubleshooting layer 2 protocols, **VLAN, VTP, STP, PPP, LLDP, IEEE 802.11 a/b/h, HSRP, VRRP**
* Experience in configuring and troubleshooting layer 3 protocols, RIP**, OSPF,EIGRP,IPV4, IPV6, IPSEC**
* Configured and troubleshoot of routing protocols such as **OSPF, EIGRP**, and **BGP**.
* Addressed issues related to OSPF, BGP, **VLAN**Trunking, **HSRP** and **GLBP** fail-overs. Troubleshoot **EBGP** and **MPBGP** and worked with the creation of route policies, route maps and various **BGP** attributes.
* Optimized routing using route maps, route redistribution, route filters and fine tuning routing protocol.
* Provisioned and troubleshoot Ethernet services, Gigabit networks and Connectivity issues with WAN circuits connecting branches.
* Designed **VLAN**'s, access lists (ACL), troubleshooting IP addressing issues and updating IOS images and other hardware installations.
* Experienced in troubleshooting **VLAN, STP** (Spanning tree protocol), & Switch Trunk and IP subnetting issues.
* Managed and configured Cisco Switches and Firewalls independently.
* Provided End-User support for troubleshooting of hardware, software and windows operating system related issues, network connectivity issues, remote access setup, VPN connection issues and telephony related problem including VoIP, Call Center.
* Possess excellent verbal and written communication skills and experience developing and maintaining technical procedure and documentation.
* Provided escalation support to L1 members of network team.
* Worked and escalate problems effectively in order to meet customer **SLA**.
* Performed problem management and root case analysis for customers as required.

**Environment**: Trouble shooting

**Safeway - Pleasanton, CA Jan 2015– May2016**

**Network Security Engineer**

Responsibilities:

* Responsible for turning up new sites this includes designing, configuring, and coordinating in turning up the new circuits on Routers and switches.
* Analyzed, configured, and troubleshoot the LAN/WAN networks. Monitored Network traffic and access logs in order to troubleshoot network access issues. Used network analysis tools to monitor and shape traffic for optimum performance.
* Implemented traffic filters using Standard and Extended Access-lists.
* Handled Route-map, Redistribution list, & access-list configurations.
* Designed and configured Local Area Networks consisting of Cisco Catalyst Switches **6509E, 4500s, 3750, 3560** Wired Switches, Wide Area Networks consisting of Cisco Routers 3900s, 2951s, and Wireless LAN Networks using controllers of Cisco 5508s with Cisco APs 3502Es.
* Configured VPC, FEX and VDC's on Nexus 5K.
* Performed Pilot Test on Cisco Nexus Data Center Switches 7000s for compatibility issues, Cisco Carrier Routing System (CRS), Cisco Aggregation Service Routers, and Cisco **12000 GSR**.
* Performed configuration and maintenance of **LAN/WAN** technologies such as Ethernet and Fast Ethernet. Securing the network with access lists applied on interfaces.
* Implemented IP Routing protocols **EIGRP, OSPF, BGP** on Cisco Routers **7600, 3600, 2800**.
* Configured and managed Windows Firewalls, Cisco PIX, and Checkpoint firewalls.
* Worked on software blades of Checkpoint firewall.
* Administering multiple firewall of Juniper/ NetScreen, in a managed distributed environment and Policies between secure zones using NSM (Network Security Manager).
* Installed and Maintained software license agreements: administering patch management and operating system deployment with **SCCM** and **SCOM**.
* Configured and Utilized network monitoring software to ensure network availability to all system users and Communication Manager.
* Implementing, Managing and troubleshooting Aruba ClearPass Appliance along with Designing.
* Deployed F5 Edge Gateways for **SSL**, remote access load balancing. Created templates, **SSL** profiles and network **ACL**s.
* Assisted in design and implementation of load balancing solutions.
* Hands on experience on F5 Load balancers.
* Experience in creating Virtual servers, Pools, nodes, iRules, Persistence, SNATs, and HAon BIG-IP.
* Experience working with high availability and implemented it on F5 load balancer.
* Assisted in PoC design & evaluation for purchasing IP Networking hardware and software for expansion of the circuits.
* Created documentation to record test result as well as identify and escalate issues to proper team.
* Worked on migration of existing **PIX** firewall to **ASA** firewall, **PIX** OS upgrade from 6.3 to 7.0.
* Designed and Implemented **DMZ** for **FTP**, Web and Mail Servers with **CISCO PIX 506, PIX515**.
* Built **VPN** tunnel and **VPN** encryption.
* Involved in Configuration of Access lists (ACL) on **ASA** firewall for the proper network routing for the **B2B** network connectivity.
* To secure configurations of load balancing in **F5, SSL/VPN** connections, troubleshooting **CISCO ASA** firewalls, and related network security measures.

**Environment**: Trouble shooting

**Quest diagnostics - Newark, NJ Feb 2013 - Dec 2014**

**Network Engineer**

Responsibilities:

* Experience working with **Juniper EX-Series** Ethernet Switches.
* Experience configuring and deployment of **ERX310.**
* Experience with Installation on **PIM** modules on **J-Series** routers.
* 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.
* 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.
* Managed fast Layer 3 switched/routed **LAN/WAN** infrastructure as a part of Network team. The **LAN** consisted of Cisco campus model of Cisco **3550** at access layer, Cisco **6513** at distribution/core.
* Configuring **RIP, OSPF** and Static routing on Juniper Routers.
* Configuration and troubleshooting of Cisco catalyst **6509,7613** with supervisor cards.
* Design, implementation and operational support of routing/switching protocols in complex environments including **BGP, OSPF, EIGRP**, Spanning Tree, 802.1q, etc.
* 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**.
* 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.

**Environment**: WAN

**Virtela - Englewood, CO Aug 2011- Jan 2013**

**Network Engineer**

Responsibilities:

* Configure, deploy and maintain underlying network switching and routing hardware and equipment.
* Implementation and maintenance of switching infrastructure including VLAN creation and maintenance.
* Routing protocols (**RIP, EIGRP, OSPF, BGP**) implementation.
* Proficient in setting up & managing **WAN / LAN/ WLAN**& Networking Devices Administration.
* Successfully involved in Design, Configuration, Implementation and Maintenance of Networking Infrastructure.
* IP addresses management (Subnetting/Supernetting).
* Troubleshooting problems pertaining to Performance Tuning, Network Administration, ApplicationConflicts and System Bugs.
* Troubleshooting of routing and switching infrastructure.
* Migration to new Global Network infrastructure. High Bandwidth **MPLS WAN** links, **OSPF** Redistribution to **BGP**, Replaced legacy Layer 2 Network with a fast converging layer 3 network.
* Worked on project that provide enterprise security and remote accessibility. These include functional testing, product deployment and system maintenance.
* Administration of the corporate firewall as well as site to site **VPN** and mobile **VPN** tunnels.
* Configuration and deployment of authentication services that interact with the corporate firewall and **VPN**.

**Environment**: Data center

**Genpact - Hyderabad, India Sep2009 – July 2011**

**Network Engineer**

Responsibilities:

* Responsible for installation and maintenance of new network connection for the customers.
* Configured all the required devices and equipment for remote vendors at various sites and plants.
* In-depth expertise in the implementation of analysis, optimization, troubleshooting and documentation of **LAN/WAN** networking systems.
* Follow process and procedures for change & configuration management.
* Supported nationwide **LAN** infrastructure consisting of Cisco **4510** and catalyst **6513**.
* Deployed the switches in high availability configuration with **HSRP**.
* Maintained redundancy on Cisco **2600, 2800**, and **3600** routers with **HSRP**.
* Worked on Cisco Layer 2 switches (spanning tree, VLAN).
* Performed troubleshooting, while maintaining trouble ticket tracking, following internal/external escalation procedure and customer notifications.
* Configured Cisco Routers for **RIP, IGRP, RIPv2, EIGRP**, Static and default route.
* Configured the Cisco router as IP Firewall and for NATting.
* Knowledge of IP traffic flow, sniffing, capturing and monitoring of live traffic streams using Wireshark.
* Worked on the security levels with **RADIUS, TACACS+**.
* Responsible for service request tickets generated by the helpdesk in all phrases such as troubleshooting, maintenance, upgrade, patches and fixes with all around technical support.
* Responsible for daily administration of Windows servers including creation/deletion of new user accounts, print services, and backups.

**Environment**: L2,L3

**CERTIFICATION**

CCNA: Cisco Certified Network Associate (R&S) –MAY 2009

CCNP:Cisco Certified Network Professional(R&S) - JAN 2012

**EDUCATION**

Andhra University, India

Bachelor of technology in computer science (2009)

**TECHNICAL SKILLS:**

Networking Technologies LAN/WAN Architecture, TCP/IP, Frame Relay, VPN, VLAN, L2VPN, VTP, NAT, PAT, STP, RSTP, PVST, MSTP

Networking Hardware Cisco Switches, Cisco Routers, Pix firewalls

Routing Protocols OSPF, IGRP, EIGRP, RIP, MPLS, IS-IS, BGP, Multicasting

Security Technologies PAP, CHAP, Cisco PIX

Network Monitoring Cisco Works 2000, Wire Shark

Operating Systems Windows 7, Vista, XP, 2000, LINUX, Cisco IOS, IOS XR

Network Simulators GNS3, Packet Tracer

Routers CISCO 2600, […] Juniper M & T Series, Cisco CRS-1, CRS -3, GSR

Management Tools SNMP, Syslog, Sniffer and Wire shark

Switches CISCO 2900, […] Nexus 7k,5k,2k,1k

Programming Languages

C, C++, VB Script, Power Shell, ITIL v3 - Service Strategy, Service Design, Service Transition, Service Operation, Continual Service Improvement

Simulation Tools Qualnet Developer, OPNET IT GURU, OPNET Modeler, Cadence, Fire-eye.

Web Technologies HTML, XHTML, JAVA SCRIPT, CSS

Firewalls Checkpoint 4000 series, Palo Alto Firewall 3k and 5K, juniper net screen […], Juniper SRX […] Pix […] […]

Load Balancer Cisco CSS, F5 Networks (Big-IP)

Network Security Knowledge of Firewall, ASA, Cisco FWSM/PIX/ASDM, IPSec, Nokia Checkpoint NG, IPS/IDS(Snor), IPS 4260, Juniper SRX & VPN

Juniper E series, J series and M series. MX960, M10i, T1600, T640