 ****   ****

**Vamshi Krishna**

**972-469-5324 / Vamshi.rsa@gmail.com**

**Professional Summary:**

* Cisco Certified Network Professional with 9 years of experience in networking, which includes expertise in routing, switching, firewall technologies, load balancers, network administration and troubleshooting.
* Experienced working and configuring Cisco routers and L2/L3 Switches and good understanding of IP Sub netting.
* Deep understanding and working knowledge of Network Security concepts like Firewalls, Load Balancers.
* Expertise in installing, configuring, and maintaining Cisco Switches (2960, 3560X, 3750X, 4500-X, 4948, 4510, 6509).
* Expertise in installing, configuring, and troubleshooting of Cisco Routers (ASR1000, ASR6500, ISR3900, 3800, 3600, 2900, 2800, 1800, 800 series).
* Excellent and deep understanding of SSL, TCP/IP.
* Experience in working of Load Balancer F5 LTM, GTM series like 6400, 6800 and 8800.
* Experience in configuring Virtual Local Area Network (VLAN), spanning tree protocol (STP), VLAN Trunking Protocol (VTP), Dynamic Trunking Protocol (DTP), Per VLAN spanning Tree (PVST) and 802.1 x authentications in access layer switches.
* Experience on Firewall technologies including general configuration, risk analysis, security policy, rules creation and modification of Checkpoint R65, R70, R77, Palo Alto and Cisco ASA.
* Configured Palo Alto Networks Firewall models (PA-2k, PA-3k, PA-5k etc.) as well as a centralized management system (Panorama) to manage large scale Firewall deployments.
* Expert Level Knowledge about TCP/IP and OSI models.
* In-depth knowledge of implementing, configuring and troubleshooting Routing Protocols Static Routing, EIGRP, OSPF, BGP.
* Strong Understanding of WAN Optimization technology
* Working knowledge on configuring access lists. Troubleshooting DNS/DHCP issues within the LAN network.
* Expert level knowledge of troubleshooting, implementing, optimizing and testing of static and dynamic routing protocols such as EIGRP, OSPF, BGP, RIP v1/v2 ability to interpret and resolve complex route table problems.
* Experience with designing, deploying and troubleshooting LAN, WAN, Frame-Relay, Ether-channel, IP Routing Protocols - (RIPV2, OSPF, EIGRP & BGP), ACL's, NAT, VLAN, VTP, BPDU, STP, HSRP & GLBP.
* Expertise in IP sub netting and worked on various designing and allocating various classes of IP address to the domain
* Experience with Security designs on next-generation ASA FirePOWER firewalls, endpoint security, Identity Services Engine (ISE), and VPN solutions
* Designed and implemented Cisco Wireless LAN Controller networks with Cisco ACS and ISE identity products.
* Worked on Cisco Trustsec to perform Software defined segmentation on VLANS.
* Experience with Cisco ACI on data center virtualization with Nexus Switches.
* Extensive Knowledge on the implementation of Cisco ASA 5500 series, Palo Alto Firewalls, VPN, Troubleshooting Skills, Log Analysis and Review, Compliance Audit.
* Extensive knowledge of deploying and troubleshooting L2/L3, TCP/IP, Multilayer Switches.
* Good knowledge on various advanced technologies like VOIP, H.323, SIP, QOS, IPv6, Multicasting, and MPLS.
* Experience administrating SDWAN enterprise deployment and implementations of Network and Devices for Network SDWAN environment.
* Worked on SDN applications in Network Defense and management.
* Excellent knowledge of Cisco IOS commands and also practiced on configuring and troubleshooting Cisco devices and good knowledge on Linux Shell Programming.
* Experience on Infoblox DDI, IPAM DNS and DHCP management.
* Good knowledge of various Symmetric and Asymmetric Cryptography concepts like AES, RSA, DES and awareness on various security protocols like SSH, SSL, WPA and WPA2 and authentication services like Kerberos, RADIUS, TACACS.
* Experience in deployment and Management of Bluecoat proxies in forward proxy scenario as well as for security in reverse proxy scenario.
* Exceptional organizational and time management skills and can work in team environment. Strong technical and problem-solving skills.

**TECHNICAL CERTIFICATIONS**

* Cisco Certified Network Professional (CCNP)
* Cisco Certified Network Associate Routing and Switching (CCNA)
* AWS Certified Solutions Architect – Associate
* Cisco Certified Entry Networking Technician (CCENT)
* Certified in CompTIA Security+ SY0-401

**TECHNICAL EXPERTISE**

|  |
| --- |
| **Networking Hardware** : Cisco Switches, Cisco Routers, ASA/Pix firewalls. |
| **Routing Protocols** : OSPF, EIGRP, BGP, RIP |
| **LAN Protocols** : Ethernet, TCP/IP, CDP, STP, RSTP, VTP, Fast Ethernet |
| **WAN Protocols** : Frame Relay, PPP, HDLC |
| **Application Protocols** : SNMP, Telnet, SSH, DHCP, DNS, ARP, HTTP, FTP, TFTP |
| **Routers**  : CISCO ISR and CISCO ASR |
| **Switches** : CISCO Catalyst and Nexus |
| **Switching Technologies :** VLANs, Inter VLAN routing and Port Channels, VTP, Spanning |
| Tree Protocols like PVST+, RSTP+ and Multi-Layer Switching. |
| **Network Monitor Tool:** Wire Shark |
| **Load Balancer** : Citrix, F5 Load Balancer |
| **Security/Firewalls** : Cisco ASA, VPN, ACL, Checkpoint R77, Palo Alto |
| **Redundancy Protocols** : HSRP, GLBP, VRRP |
| **Application Layer** : FTP, HTTP, DNS, DHCP, SMTP, SNMP |
| **Tunneling Protocols** : L2TP, IPSec, PPP, MPLS, IEEE 802.1Q |
| **AAA Architecture** : TACACS+, RADIUS, Cisco ACS |
| **Operating Systems** : Cisco IOS commands, Windows (2000, XP, Vista, Windows 7, 8, 10), Linux |
| **Documentation**  : MS Office |

**Professional Experience**

**Depository Trust and Clearing Corporation Dallas, TX** Oct 2016 – Present

**Sr. Network Engineer**

**Responsibilities:**

* Maintaining the Network Infrastructure, Installation, migration and configuration of routers and switches.
* Worked on designing and configuration of Cisco Identity Services Engine (ISE) server in order to migrate services from Cisco Secure Access Control System (ACS) version 4.2, Cisco Network Access Control (NAC) to new Cisco ISE.
* Executing RADIUS pre-deployment tasks like ISE setup, loading templates into Cisco Prime.
* Worked on assessment and the finalization of the detailed designs and provided a design document for the Implementation of Cisco ISE and the Migration of Wireless and TACACs to ISE.
* Configuration and Integration of Cisco Identity Services Engine (ISE) 2.3.
* Configured DMVPN using GRE over IPSEC between multiple routers.
* Administered, installed, configured, maintained, and troubleshooted the Cisco TelePresence Video Communications Server (VCS) and Video Communications Server Expressway (VCSE).
* Troubleshoot and configure infrastructure devices such as(but not limited to): VCS, VCSe, TMS, MCU, etc.
* Designed and implemented numerous multi-generation Cisco WAN solutions including  DMVPN, APIC-EM, BGP.
* Worked on new infrastructure deployments and remediate WLAN issues, Cisco WLAN controllers, switches and routers.
* Working with backend Python automation, CI pipelines, Docker and cloud provisioning/automation.
* Actively involved in each phase of software Development life cycle (SDLC) and experience in Agile Software Methodology.
* Used Survey software Ekahau and AirMagnet Pro and AirMagnet Spectrum Analyzer.
* Documented findings on Visio, Adobe Acrobat and Excel. Surveys are passive, active and predictive for 2.4 and 5 Ghz bands.
* Successfully positioned Cisco Spark use-cases internally and externally to cultivate awareness and advantages.
* Design and implement Cisco ACI fabric networks with Nexus 9000 switches and APIC controller in a VMware environment
* Installation, configuration, deploy VOIP devices & switches.
* Configure the FirePOWER chassis in clustered and then after HA mode to meet the clients ever changing design requirements
* Understand OSPF configuration and authentication settings to migrate routing over to the FirePOWER platform
* Integrate FirePOWER with unsupported up and down stream switches so deep understanding of network concepts were required to driver project success
* Developed the vision, strategy, and experience for Cisco's next-generation Spark media platform, and planned the minimum viable product backlog for continuous delivery.
* Developed the strategy and business plan for migrating customers across the globe to Spark based meeting platform.
* Maintain/update product technical documentation with detailed information about the product functionality, feature description, installation procedure, network configuration, VOIP configuration and troubleshooting techniques.
* Maintaining OSPF, EIGRP, RIP and static routing protocol on CISCO routers.
* Frame Relay, ISDN, PPP, HDLC, Network Troubleshooting using CLI Show commands, PING, Trace route, telnet.
* Support, and operation of the Orion SolarWinds platform: Network Performance Monitor, Network Configuration manager, Server & Application Monitor, NetFlow Traffic Analyzer, IP Address Manager, Web Performance Monitor, and Virtualization Manager.
* Design and Implementation of LAN, VLANs, VTP, Spanning Tree (STP), Trunking and Ether channel.
* Connected and troubleshooted Virtual Servers on Citrix NetScaler and F5 Load Balancer.
* Implemented Network hardware and software using industry policies and standard procedures
* Acts to improve network system reliability by providing ongoing testing, tuning and troubleshooting
* Responsible for troubleshooting of major Networking issues and responsible for Network systems problems as needed 24x7x365
* Developed procedures and processes to deploy new SDWAN solution to over various sites with unique infrastructure, to reduce time per installation.
* Performed Software defined segmentation on Cisco Trustsec to enable VLAN based segmentation.
* Worked on Open Daylight Controller in Trustsec to manage router and firewalls.
* Developed backup procedures and methods to ensure maximum Network systems reliability, restorability and disaster recovery.
* Worked on Bluecoat proxy and Infoblox for security and network management.
* Worked on replacing aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection.
* Setup TFTP server to maintain CISCO router configurations and CISCO images. Worked on network hardware and software upgrades.
* Worked on SDN open flow controller to design and manage network.
* Actively engaging in SDN and NFV and related Open Source initiatives such as OpenStack, Open Daylight,
* Worked with project managers to determine networking requirements and provide the enterprise users with the best solutions to their networking problems from an institutional prospective.

**Environment:** Cisco catalyst 4500/6800 switches and Cisco ISR 2900/3900 /4000 routers, Cisco ASR 9000 router, Cisco ASA5510, Checkpoint R77, Cisco Nexus 7K/5K/3K/2K switches.

**Johnson & Johnson, Devon, PA** Sept 2015 – Sept 2016

**Network Engineer**

**Responsibilities:**

* Configuring and troubleshooting of routing protocols such as OSPF and EIGRP for effective communication on Cisco 3900, 3800 series routers.
* Worked on configuration, deployment and administration of Checkpoint firewalls versions R77.0, R75.46.
* Configuring switch ports, access & trunk links, static routes, load balancing, updating IOS etc.
* Updating access-list, IPS filters NATs/ security rules, on Palo Alto firewall.
* Supported Cisco ISE (802.1x/NAC) on access switches and AnyConnect VPN
* Designed and configured Cisco ISE for EAP-TLS 802.1X, BYOD and sponsored guest services
* Staging datacenters for Cisco ACI SDN implementation
* Administered, installed, configured, maintained, and troubleshooted the Cisco TelePresence Video Communications Server (VCS).
* Architected and implemented Cisco ACI in datacenters
* New infrastructure deployments and remediate WLAN issues, Cisco WLAN controllers, switches and routers.
* Developed the strategy and business plan for migrating customers across the globe to Spark based meeting platform.
* Review the FirePOWER management server configuration and offer recommendations based on prior experience.
* Cisco SparkAdoption Specialist driving Daily Active Users (DAU's) & establishing reference customers for the assigned vertical/operation/country.
* Used Survey software Ekahau and AirMagnet Pro and AirMagnet Spectrum Analyzer.
* Integrated the necessary functionalities to monitor corporate nodes and the quality of services using Orion Solarwinds Network Management System to ensure system are complaint with service specifications.
* Worked on SANS SIFT Network Forensic Toolkit to analyze incidents and intrusion detection.
* Investigated various intrusions and forensic analysis on systems using SANS SIFT toolkit.
* Working knowledge of VSS, VPC, LACP, PAgP, VRFs, IPSEC/GRE SSL VPNs, VLANs, QoS, and VIP
* Working knowledge of Nexus, Cisco IOS, and Cisco 6500,4500,4900,3700 series catalyst switches, ASRs 9010/9922 routers.
* Design, deploy and maintain enterprise telecommunications equipment.
* Assisted the sales team with customer meetings, system designs and programming of Avaya PBX systems.
* Completing work order tasks for commissioning /de-commissioning devices on the network
* Configured of Access List ACL (Std, Ext, and Named) to allow users all over the company to access different applications and blocking others.
* Worked on Cisco Trustsec 5.0 platform.
* Performed Software defined segmentation on Cisco Trustsec to enable VLAN based segmentation and shared group policies on Cisco ISE.
* Worked on Open Daylight Controller in Trustsec to manage router and firewalls.
* Dealt with NAT configuration and its troubleshooting issues related access lists and DNS/DHCP issues within the LAN network. Troubleshoot and resolve issues
* Coordinated with senior engineers in BGP routing policies and designs
* Configured DMVPN using GRE over IPSEC between multiple routers
* Monitoring Network infrastructure using SNMP tools
* Designed DMVPN solution for many large customers. Both as MPLS failover and primary WAN solution.
* Configured and managed updated Cisco Network Systems with routers for MPLS Client VPN, Site-to-Site VPN and Dynamic VPM (DMVPN).
* Design and implements DMVPN connection migrated home office users to DMVPN
* Provide new or alternative methods to support the constantly changing environment
* Analyze and provide reports to management about capacity planning and trend analysis
* Maintain and monitor all infrastructure hardware.
* Extensive knowledge in implementing and configuring F5 Big-IP LTM 3900, and 6900 Load balancers.
* Worked on Bluecoat proxy and Infoblox for security and network management.
* Documentation and creating policies and baseline configurations.
* Worked on SDN open flow controller to design and manage network.
* Understanding of SDN/NFV ecosystem SDN controller, ONF, ETSI NFV, Open daylight, Open stack.
* Provide high-level support across departmental boundaries
* Installing and configuring VPNs for the clients (site to site)

**Environment:** Cisco 3750/3850/4500-X/6500 Catalyst switches and Cisco 7600/ASR9K (9010/9922) routers, Cisco 2900/1900 ISR routers and datacenter switches, Palo Alto, F5 LTM, GTM, Bluecoat Proxy, SANS SIFT. Avaya SAL 2.0, gateways G430 and G450, Checkpoint R75

**Talen Energy, Allentown, PA** Jan 2013 – Aug 2015

**Network Engineer**

**Responsibilities:**

* Worked as part of the team to manage enterprise network infrastructure as a Tier-3 Support Engineer.
* Designed and configured Juniper routers and SRX firewalls with OSPF and BGP.
* Provide necessary troubleshooting to ensure uninterrupted Cisco Audio or Video operations
* Configured HSRP, VLAN Trunking 802.1Q, VLAN routing on Cisco Catalyst 3550/4500/6500 Switches.
* Experience in configuring Trunk groups, Ether-Channels, STP for creating and Maintaining Access/Distribution and Core layer switching architecture.
* Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools.
* Successfully installed Palo Alto PA 3060 firewalls to protects Data Center and provided L3 support for routers/switches/firewalls
* Troubleshoot and configure infrastructure devices such as(but not limited to): VCS, VCSe, TMS, MCU, etc.
* Implemented Zone Based Firewalling and Security Rules on the Palo Alto Firewall
* Configuring Cisco 2900/3500 switches with STP, RSTP, and RPVST to avoid loops.
* Hands-on experience in configuring VPC, VDC and ISSU Software upgrades on Cisco Nexus 7010.
* Configuring Static NAT, Dynamic NAT, and PAT overload.
* Configured Air Magnet Survey Pro, Ekahau WLAN Site Surveyor, Wi-Spy Spectrum Analyser, Cisco Packet Tracer and other tools are used to plan for future 802.11 coverage and report current coverage issues.
* Design and Configure Checkpoint and Cisco ASA Firewall policies.
* Implementing and Managing Checkpoint (Splat, GAIA) Firewalls.
* Configuring of Checkpoint Security gateway & management server.
* Worked on Checkpoint Firewalls Clusters of both High-Availability and Load-Sharing
* Assisting the certification teams in configuring LAN/WAN technologies such as Ethernet, Fast Ethernet, Gigabit Ethernet.
* Comprehensive working knowledge of switches, switching technology, LAN/WAN security, LAN/WAN design, capacity planning, server technology, LAN/WAN troubleshooting, Voice over IP (including T1, DS3, OC-3, routing protocols, TACACS, RADIUS).
* Experience in configuring HSRP, GLBP on Cisco Catalyst switches.
* Administer and support Juniper Firewalls Using NSM (NetScreen and ISG firewalls).
* Support routing protocols including BGP and OSPF routing, HSRP, Load
* Balancing/Failover configurations, GRE Tunnel Configurations, VRF configuration and support on the routers.
* Configured Cisco VPN Concentrator 3060 for VPN Tunnel with Cisco VPN hardware/software client and PIX/ASA firewall.
* Experience in configuring Cisco ASA Firewalls 5540/5550/5585 using CLI, Cisco CSM, and ASDM for day to day maintenance.
* Configuring and implementing Security/NAT rules on Cisco ASA 7.x,8.x/PIX firewalls.
* Maintaining F5 load balancers. Expertise in Managing F5 Big IP GTM/LTM appliances adding virtual IPs, nodes, pools and health monitoring.
* Actively used Bluecoat proxy SG and Infoblox DDI.
* Worked on SDN open flow controller to design and manage network.
* Understanding of SDN/NFV ecosystem SDN controller, ONF, ETSI NFV, Open daylight, Open stack.
* Problem solving support for issues affecting B2B, Internet and VPN, Routing, traffic and log analysis.
* Experience in providing production support for network issues, firewall related issues, access issues.

**Environment:** Cisco ISR 1800/1900 Routers, Cisco ASR 900/920 series routers, Cisco catalyst 3650/3750/3850 Switches, Nexus 5k/2k switches, Worked on various routing protocols like RIP, OSPF, BGP, EIGRP. LAN, WAN, CISCO ASA 5540, 5550, HSRP, VRRP, GLBP, VLAN, Qos, Wireshark, Palo Alto3060, Checkpoint R71.

**Elite Core Technologies Pvt Ltd, Hyderabad, India** Feb 2012 – Dec 2012

**Network Engineer**

**Responsibilities:**

* Responsible for setting up the infrastructure environment with majority of Cisco & Palo Alto appliances apart from various other equipment.
* Efficiently using the Service Now tool for generation of tickets, assigning severity to incidents, following up with incident status and troubleshooting incidents.
* Handling software, patch updates and antivirus across the enterprise.
* Implementing and Managing Checkpoint (Splat, GAIA) Firewalls.
* Configuring of Checkpoint Security gateway & management server.
* Analyze, troubleshoot, identify and resolve problems with customer/partner video networks
* Assist customers/partners with new installs and deployments and being a source of reference to aid them in their efforts to get their video network online
* Troubleshoot and configure infrastructure devices such as(but not limited to): VCS, VCSe, TMS, MCU, etc.
* Experience working in Datacenter environment, configuration changes as per the needs of company.
* Manage project task to migrate from Cisco ASA firewalls to Check Point firewalls
* Monitoring the network performance, diagnose network failures and connectivity issues using Wireshark.
* Creating and maintaining user accounts, passwords, profiles, home directories, setting file permissions.
* Document network and telephony hardware and software configurations, versioning and hardware.
* Troubleshooting of routing protocols, which include RIP, BGP, EIGRP, and OSPF.
* Implementing and maintaining standard access-lists and extended access list as per User’s security level.
* Providing tech support for complex WAN and LAN networks.
* Maintaining F5 load balancers. Expertise in Managing F5 Big IP GTM/LTM appliances adding virtual IPs, nodes, pools and health monitoring.
* Actively used Bluecoat proxy SG and Infoblox DDI.
* Operational support and troubleshooting production issues across the environment.
* Facilitate and coordinate with vendors, suppliers, and IT teams in resolution of network and systems faults or upgrades under the supervision of senior staff.
* Worked on SDN open flow controller to design and manage network.
* Understanding of SDN/NFV ecosystem SDN controller, ONF, ETSI NFV, Open daylight, Open stack.
* Designing and establishing redistribution of RIP and EIGRP into OSPF.
* Defining and implementing route-maps, access-lists for resolving redistribution issues.
* Performing system administration tasks including backups and file restores, account
* Installation and deletion, workstation, Server installation, and operating system upgrades.

**Environment:**  Cisco catalyst 2900/2960 switches and Cisco ISR 1800/1900 and ASR 900 routers, Cisco ASA5508, Checkpoint R75 firewall, Cisco Nexus 1K/2K, 5648/5624 switches.

**Value Point Systems, Hyderabad, India** June 2009- Jan 2012

**Jr. Network Engineer**

**Responsibilities:**

* Configuring and troubleshooting multi-customer ISP network environment.
* Involved in network monitoring, alarm notification and acknowledgement.
* Implementing new/changing existing data networks for various projects as per the requirement.
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems.
* Responsible for reporting day to day operations of all associated hubs, routers, bridges, gateways and related equipment.
* Worked on Infoblox to update the DNS host and to perform DHCP and IP Address management.
* Configured BGP for CE to PE route advertisement inside the lab environment
* Monitoring the network, troubleshooting network problems, implementing changes, communicating and working closely with vendors, customers, system administrators.
* Spearheaded meetings & discussions with team members regarding network optimization and regarding BGP issues.
* Configuring all the required devices and equipment for remote vendors at various sites and plants.
* Installing new equipment to RADIUS and worked with MPLS-VPN and TACACS configurations.
* Installing and maintaining local as well as network printers.
* Validating existing infrastructure and suggesting new network designs.
* Responsible for LAN and internet connection file and print server.
* 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.
* Maintained and installed new internet connections for customers.
* Handled Tech Support as it relates to LAN & WAN systems.
* Handled installation of Windows NT Server and Windows NT Workstations.
* Implementing and managing traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).
* Configured Cisco 1231 Access points with 5959 and 4941 antennas (802.11/a/g).
* Maintained and installed new internet connections for customers.
* Used various scanning and sniffing tools like Wire-shark.

**Environment:** TCP/IP networks, Cisco ISR router 800, 1000, VLAN, VTP, STP, Trunks H/W, DSL, T1 Lines LAN, WAN, Cisco catalyst switch 2900.