

**Vivek Katanguru**

**Sr. Network Engineer**

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**Summary:**

* Around 7Years of experience in implementing and maintaining enterprise level data networks as Network Engineer
* Experience in Configuration of **Cisco Routers and Catalyst Switches**.
* Extensively worked on Cisco Routers, Switches, Load Balancers & Firewalls
* Experience with convert Checkpoint **VPN** rules over to the Cisco ASA solution. Migration with **Cisco ASA VPN** experience
* Enterprise Routing experience using protocols **RIP**, **EIGRP**, **OSPF** and **BGP**.
* Enterprise Switching with VLANs**, Trunks**, **Spanning Tree**, **Port Spanning** etc.
* Solid knowledge of the **TCP / IPv4 and IPv6 protocol** suite.
* QOS Platforms: **Exinda 1800 series** (current) **&Bluecoat**/Packeteer products.
* Installing and configuring F5 Load balancers and **firewalls with LAN/WAN** configuration
* Configured Security policies including **NAT**, **PAT**, Route-maps and Access Control Lists.
* Experience in WAN technologies like **T1/T3, OC** and **DS3** circuit types.
* Well experienced in configuring gateway redundancy protocols like **HSRP**, **GLBP**and **PPP**.
* Manage deployment and testing of code updates for **wireless systems**, such as **WCS, WiSM, and WLC.**
* Experience with Load Balancers for administrating and monitoring global & local traffic.
* Experience with configuring Nexus **2000 Fabric Extender** (FEX) which acts as a remote line card (module) for the **Nexus 5000**
* Worked on Checkpoint Provider -1/Smart Domain Manager (R75).
* Maintained Checkpoint **R75 firewall policies** and NAT rules
* Good Documentation and ITIL process skills.
* Experience in Network Integration and consolidation.
* Responsible for advanced enterprise wireless **LAN administration and design, meshnetworks,** and **point-to-point and point-to-multipoint topologies**.
* Configuring and Troubleshooting Route Redistribution between **static, RIP, EIGRP OSPF & BGP protocols.**
* Experience in Designing, Implementation and Operations of enterprise data networks as Network Engineer.
* Expertise in physical infrastructure like structured cabling, IP address management, **racking, stacking** and Data Center concepts
* Experience with routing and switching with both major cisco hardware (i.e. 7200s, and 7600s, 6500s, Nexus 7000s), and the new **HP H3C 12500s** series L3 / L2 switching platforms.
* Highly motivated with the ability to work independently or as an integral part of a team and Committed to highest levels of professional.
* Monitored alarm conditions on the network to proactively identify and minimize
* disruptions and impact to end users traversing Carrier Class **MPLS,Ethernet, IP, Frame Relay, ATM, WAN/ LAN** topologies
* Performed network design and architecture using **HR-DSS**, **ERP-OFDM**, and **OFDMtechnologies in WLANS**

**Professional Certifications:**

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

**Technical Skills:**

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| --- | --- |
| **Routing Protocols** | IGRP, EIGRP, OSPF, RIP, IS-IS, BGP, HSRP, STP, VRRP &GLBP |
| **Cisco &Cisco & another vendor equipment** | Nexus7K,5K,2K&1K,Ciscorouters (7200,3800,3600,2800,2600,2500,1800series)&CiscoCatalystswitches(6500,4900,3750,3500,4500, 2900 series). |
| **Networking Technologies** | LAN/WAN Architecture, TCP/IP, Frame Relay, VPN, VLAN, VTP, NAT, PAT, STP, RSTP, PVST, MSTP |
| **Infrastructure services** | DHCP, DNS, SMTP, FTP, TFTP |
| **Security & VPN** | Check Point Firewalls NG, NGX, NG R55, NGX 60, NGX R65, R70, R75, R76 with 4k,11kand 21k appliances, Cisco PIX/ASA Firewall (525/535), ASA 5505, 5510, 5512-X Firewall, Juniper firewall NS50, SSG 550M, SSG520M, ISG 1000, ISG 200, Nokia IP 390, 560, 690, 1280, 2450. |
| **AAA Architecture** | TACACS+, RADIUS, Cisco ACS |
| **WAN technologies &SONET** | Frame Relay, ISDN, ATM, MPLS, leased lines exposure to PPP, DS1, DS3, OC3, T1 /T3 |
| **Network Management** | SNMP, Cisco Works, Wireshark |
| **Monitoring Tools** | Solar winds, HP open view, Orion, CA spectrum |
| **Wireless access points** | Cisco 8500,5700, 3850, Cisco Aironet 3700 |
| **Platforms** | Cisco IOS-XR, Cisco Cat OS, Cisco IOS (11.x, 12.x), PIX, IOS(6.x, 7.x), CAT-OS UNIX, LINUX, Windows XP, NT,2000, 2003 |
| **Programming Languages** | C, C++, HTML, Perl, SQL |
| **Ticketing tool** | REMEDYBMC, Service now and HP –Service Center/Service Manager |

**Professional Experience:**

**McDonald’s Corporation, Oakbrook, IL Sep 2016 – Till Date**

**Sr.Network Engineer**

**Responsibilities:**

* Dealt with creating VIP(virtual servers), pools, nodes and applying I Rules for the virtual servers like cookie persistency, redirection of the URL
* Worked on Extensively on Cisco Firewalls**, Cisco PIX** (506E/515E/525/) &**ASA 5500**(5510/5540) Series.
* Experience working with Cisco **Nexus 2148 Fabric Extender** and **Nexus 7010 5000 series** to provide a Flexible Access Solution for a datacenter access architecture
* Working with Cisco for opening TAC Case and resolving to project deadlines.
* Modified internal infrastructure by adding switches to support server farms and added servers to existing DMZ environments to support new and existing application platforms.
* Design, develop, and document comprehensive test plans for all products.
* Perform network tasks to troubleshoot issues which are causing live network connectivity
* **Performed trending** and optimization **with MRTG software** to ensure proper flow and use of **bandwidth**
* Work with third party vendors to solve internet connectivity issues to different corporate locations
* Troubleshoot guest Wi-Fi issues at stores at multi-location.
* Perform tests on BGP connectivity and troubleshoot the issue
* Troubleshooting and installing of **CRS, ISR, GSR, ASR9000** and Nexus devices.
* Work on MPLS with troubleshooting, updates, solutions to issues
* Dual stack IPv6 implementation to Global Datacenters and WAN endpoints to meet the needs of our customers’ development requirements and testing.
* Checkpoint Level3 operations support with hardware operations - fixed all problems **& RMA's**, taking any escalations that dealt with the equipment and its connection: interfaces, VLAN's, routes, etc.
* Possess in-depth technical knowledge and experience on **Frame Relay.**
* Operating Cisco 7600, Cisco 6500, Cisco 4503, Cisco 3750, Cisco ASA, Juniper NSM, Juniper ISG1000, Juniper IDP and Bluecoat SG cashing and web filtering
* Responsible for Checkpoint and **Cisco ASA firewall** administration across global networks
* Designed and implemented **DMZ for Web servers,** Mail servers & FTP Servers using Cisco ASA5500 Firewalls.Configuration of **ACL on Cisco routers** and **switches** for corporate sites
* Implemented term servers, broadband circuits, T1 lines for different corporate locations
* Troubleshoot OSPF based network by resolving level 2 of customers with different locations
* Perform wireless administration and troubleshooting for the corporate wireless
* Real-time Monitoring the enterprise Network for different alerts
* Coordinating with service provider for BGP issues, internet connectivity at corporate stores
* Configuring **AdministratingCisco ACS5.3** for **Dot1x RADIUS** authentication for Wireless users **and TACACS for Device Administration**.
* Solve Broadband circuit issues on various locations
* Install and Maintain routers and switches for different locations
* Experience working with **OTV**&**FCOE** on the nexus between the datacenters
* Working on Cisco 2900 series devices for configuration and testing
* Provide Store support for technician on site to resolve internet connectivity issues
* Prepared documents and network diagram on **Microsoft Visio**.
* Worked with implementation team on several issues and come up with suitable solutions
* **Integrating ACS** with external identity stores such as **Windows AD RSA SecurID.**
* Data centers routing and switching shop comprise of Cisco 6500 / 4500, 7200 and 7609 routers, Nexus 7000 switch, **HP H3C 9500s** and **12500s,** and **HP Procures**.
* Configure and test Cisco 2900 series routers, switches and test them for OSPF, BGP and **MPLS technologyinfrastructure**.

**Environment:** Cisco 2948/3560/4500/3560/3750/3550/3500/2960 6500 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers, Cisco **Nexus** 7K/5K, Cisco ASA5510, Checkpoint,**Aruba Controllers** 6000, 3600, 3400,650: windows server 2003/2008: F5 BIGIP LTM

**Lowes Inc., Mooresville, NC May 2015 – Aug 2016**

**Network Engineer**

**Responsibilities:**

* Manage DNS servers, responsible for developing and implementing a plan to move DNS off of Cisco GSS devices and onto McAfee Firewalls as well as implementation of DNSSEC
* Experience working with Cisco **Nexus 2148 Fabric Extender** and **Nexus 5000 series** to provide a Flexible Access Solution for a datacenter access architecture
* Perform Wireless Administration and troubleshooting for the corporate Wireless infrastructure.
* Involved in troubleshooting of **DHCP** and other **IP conflict problems**.
* Performed switching technology administration including **VLANs**, **inter-VLAN** routing, **Truncking**, **STP**, RSTP, port aggregation & link negotiation.
* Configuration of Access List ACL (STD, Ext, Named) to allow users all over the company to access different applications, Internet and compliance to the security policy and standards.
* Responsible for Checkpoint and Cisco ASA firewall administration across global networks
* Familiar with Cisco firewalls **PIX 515, ASA 5500** series and Check Point Firewalls
* Coordinating with service providers for WAN link outages.
* Checking and configuring Cisco 7600 routers at data center for remote sites’ issues.
* Working on Cisco 6500 and4500 switches for LAN requirements that include managing VLANs, Port Security and troubleshooting LAN issues.
* Utilize Cisco **GSS** and **Citrix Net scalar** to manage services
* Replaced aging Checkpoint firewall architecture with new next generation Palo Alto appliances serving as firewalls and URL and application inspection.
* Worked with application team to understand their requirements and come up with the best load balancing options.
* Configuring, Monitoring and **Troubleshooting Cisco's PIX firewall, ASA 5500 security** appliance**, Cisco 4200 IPS appliance**
* Designed and installed new Branch network systems. Resolved network issues, ran test scripts and prepared network documentation.
* Performed Network Operations by health monitoring using **NMS**, Issue and Incident resolution using ticketing system and workflow software
* Monitoring the **NMS system** for different Network Alerts.
* Ensure problems are satisfactorily resolved in a timely manner with focus on providing a high level of support for all customers.
* Performed trending and optimization with **MRTG software** to ensure proper flow and use of **bandwidth**
* Experience with configuring **Nexus 2000 Fabric Extender (FEX)** which acts as a remote line card (module) for the **Nexus 5000**
* Integrate and Implement various internal Network Projects. Did designing and project co-ordination with multiple stake holders and vendors.

**Environment:** Cisco 3750/3550/3500/2960 switches and Cisco 3640/12000 /7200/3845/3600/2800 routers, Cisco ASA5510, Checkpoint, Aruba Controllers 6000, 3600, 3400,650, Cisco Nexus 7K/5K, 2248/3560/5020/6509.

**Novartis Pharmaceuticals, Parsippany, NJ Oct 2013 – Apr 2015**

**Network Engineer**

**Responsibilities:**

* Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches, fixes, and all around technical support.
* Maintain & prepare Network drawings of all major Data Centers & operational sites.
* Responsible for maintaining/configuring/updating network equipment including McAfee Firewalls,**Cisco GSS**, Routers, Switches, **MDS SAN Switches**, Load Balancers**, PIX**, and **ACS devices**
* Deployment and configuration of **F5 BIG IP** and **Cisco ACE load balancer**
* Configured R servers, Server Farms, Policy Maps, Class maps on ACE 4710
* Network cabling, dressing, labeling and troubleshooting network drops onsite.
* Configured Security Policies including NAT, PAT, **AAA, ACL’s** Standard Access Lists, Distribute-Lists, Route-Maps, **VPN Concentrators**, **IPS/IDS, (PIX, ASA) firewalls.**
* Supporting OSPF based network by resolving level 2 problems of internal teams & external customers of all locations.
* Provided technical support for full setup, debugged the problems of OSPF, switching and HSRP.
* Debugged and resolved problems for serial links**, Channelized T1 controllers**, **PRI controllers**
* Configuration of Fabric path and connectivity between **Nexus 5K** and **Nexus 7k**
* Experience with Checkpoint Firewall policy provisioning
* Router memory &**IOS upgrade** with **TFTP**
* Configured and debugged policy based routing for special traffic, route filtering with route maps, route redistribution.
* Configure **VLAN Trunking 802.1Q**, Support Security on Catalyst 6500 switches.
* Install and maintain routers and switches in various network configurations supported VLANs, and advanced ACL.
* Manage Network IP Address for PWC Infrastructure and update internal and external DNS.
* Working on Network support &implementation related internal projects.

**Environment:** Net Flow,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)

**3Edge Solutions, IndiaAug 2011 – Sep 2013**

**Network Support Engineer**

**Responsibilities:**

* Managed the IP address space using subnets and variable length subnet masks (VLSM).
* Involved in troubleshooting IP addressing issues and Updating IOS images using TFTP.
* Worked along with the team in ticketing issues.
* Assisted with various duties that will arise including: implementation, configuration, management, rules definition, problem solving, design advice, troubleshooting, updating, maintenance, etc.
* Maintenance and Troubleshooting of LAN connectivity problems using Ping, Trace route.
* Studied and analyzed client requirements to provide solutions for network design, configuration, administration, and security.
* Experience with **configuringBGP, OSPF on 7609 routers**.
* Assisted in troubleshooting LAN & WAN connectivity and hardware issues in the network of 10000 hosts.
* Maintained redundancy on Cisco 2600, 2800 and **3600 routers** with **HSRP.**
* Monitor performance of network and servers to identify potential problems
* Load balanced the HTTP traffic by installing the F5 load balancer and the ACE load balancer+
* Responsibilities also include technical documentation of all upgrades done. Attending meetings and technical discussions related to current project.
* Prepared engineering documents and network diagrams in Microsoft Visio.

**Environment:**Cisco 7200/3845/3600/2800 routers, TACACS, EIGRP, RIP, OSPF, BGP, VPN, Ether Channels, Fluke and Sniffer.

**Crisp System, India May 2010 – July 2011**

**Network Support Engineer**

**Responsibilities:**

* Configuring and troubleshooting routing issues related to protocols like RIP, OSPF, and BGP.
* Managing and Working with IPSEC tunnels, LAN to LAN VPN implementations.
* Maintaining and providing Level 2 and Level 3 technical supports for all network related issues and providing the requirements of the customer by interacting with the customer on daily basis via email and phone.
* Responsible for managing and configuring Layer 2 and layer 3 devices for customer’s network.
* Prompt support for Remote Access Users.
* Maintaining Network Integrity on LAN and WAN Networks.
* Settings of the networking devices (Cisco Router, switches) co-coordinating with the system/Network administrator during any major changes and implementation.
* Upgrades and backups of Cisco router configuration files to a TFTP server
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems. Implementation of name resolution using WINS & DNS in TCP/IP environment.

**Environment:**Cisco 2600/2800/3600 routers, RIP, OSPF, BGP, EIGRP, VTP, WAP, VLSM, FLSM and Switches.

**EDUCATION & CERTIFICATIONS:**

* Bachelors in Pharmaceutical Sciences from Kakatiya University, India.