



Vijay Jain
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PROFESSIONAL SUMMARY

- **Over 9 years** of experience in Designing, Implementing and Troubleshooting Service Provider Networks and Enterprise Networks and Network administration, implementation, design and troubleshooting Seeking a challenging and interesting opportunity in computer/network engineering which enables me to maximize my technical and managerial skills.
- Working knowledge of installing, configuring, and maintaining **Cisco Switches (2900, 3500 ,3700 series, 6500 series)**
- Expertise in installing, configuring, and troubleshooting of **Cisco Routers (3800, 3600, 2800, 2600, 1800, 1700, 800)**
- Hands on experience working with **Cisco Nexus 9K, 7K, 5K & 2K Switches**
- Hands on experience working with **Cisco UCS (Unified Computing System), Fabric Interconnect etc.**
- Hands on experience working with **Cisco MDS Switches, SAN, FCoE and FC (Fiber Channel) with zoning configurations.**
- Hands on experience working with **Cisco ACI (Application Centric Infrastructure) configuration and management.**
- Extensive working knowledge on **Meraki Products like Wireless, Switches and MX appliances.**
- Hands on experience of implementing and troubleshooting complex layer 2 technologies such as **VLAN Trunks, VTP Ether channel, STP, RSTP and MST.**
- Protocols working experience/Awareness: **OSPF, EIGRP, RIP, BGP, HSRP, ACL, VTP, NAT/PAT, CDP, SSH, HTTP, HTTPS, NTP, SNMP, ARP, STP (802.1D), SNMP, DNS & DHCP.**
- Work experience on Cisco catalyst **6509** and implemented **VSS** along with **VDC** and **VPC** on Nexus **5548/96, 7009** switches.
- Hands on Knowledge/experience on **F5 load balancers**, its methods, implementation and troubleshooting on **LTMs and Netscaler.**
- Hands on Knowledge/experience on Internal and External **Certificate management.** Worked on **Open SSL** to generate certificate.
- Administration and diagnostics of LAN and WAN with in-depth knowledge of **TCP/IP, NAT, PPP, ISDN** and associates network protocols and services.
- Extensive knowledge in configuring **ACS TACACAS and RADIUS** authentication
- Extensive Knowledge on the implementation of **Cisco ASA 5500 series firewalls.**
- **Working knowledge and experience supporting CRS, ASR9k, 7600, and 6500.**
- Experience in configuring **HSRP/VRRP/GSLB** and redistribution between routing protocols troubleshooting them.
- In-depth knowledge of implementing, configuring and troubleshooting Routing Protocols Static Routing, **EIGRP, OSPF, BGP**
- Extensive experience in Designing, Implementing and Troubleshooting Service Provider Networks and Enterprise Networks.
- Extensive knowledge of deploying and troubleshooting **L2/L3, TCP/IP, Multilayer Switches**
- Hands on expertise in implementation and troubleshooting of protocols such as **STP, RSTP, PVST, HSRP and VRRP.**
- Network management using **Syslog, Packet Sniffers, SNMP** etc.
- Extensive working knowledge in developing test plans, procedures, and testing Various **LAN/WAN** Products and Protocols.
- Good knowledge in configuring Cisco wireless device and Meraki Wireless devices.
- Created and design network layout and documented network system design with detail information using Visio software. Vendor co-ordination for hardware issues and assessment management.
- .Well experienced in troubleshooting and optimizing performance in CISCO based routers and switches.
- Have worked in **NOC** environment for more than 8 years.



- Excellent problem solving and debugging skills with good verbal/written communication and presentation skills.
- L3 Level support in “**Projects & Delivery**” for Routing and switching issues.
- Good knowledge on preparing **Bill of Materials** (e-BoM) for the devices and network related resources.

TECHNICAL SKILLS

Routers	Cisco 7600, 7200, 3800, 3600, 2900, 2800, 2600, ASR 1001
Routing Protocols	OSPF, EIGRP, BGP, RIP v1/v2, MPLS PBR, Route Filtering, Redistribution, Summarization, and Static Routing
Switches	Nexus 2K/5K/7K, Cisco Catalyst 6500, 4500, 3850, 3560, 3750, 2960, Meraki Switches
Switching Protocols	LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels, Transparent Bridging
Multicast Protocols	IGMP, IGMP version 2 and 3, PIM-Sparse and Dense Mode.
LAN technologies	Ethernet, Fast & Gigabit Ethernet, VLANs, VTP, STP, RSTP, 802.1W, Cisco Prime
WAN technologies	Leased lines 128k - 155Mb (PPP / HDLC), Channelized links (T1/DS3/OC3/OC12), Fiber Optic Circuits, ISDN
Load Balancer	F5 Networks (Big-IP) LTM 3900, 4100 and 6400
Network security	Cisco ASA 5540, ACL, IPSEC, F5 Load Balancer, Checkpoint, IPsec VPN, GRE VPN, Meraki MX appliances
Network Management	Solar Winds, HP NNMi, WUG, Wire shark, SNMP
Operating systems	Windows XP/ 7/ 8, Windows Server 2003/ 2008, Mac OS X and Linux
Language skills	Python, Perl
Various Features & Services	IOS and Features, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP, FTP
Applications	MS (Office, Word, Outlook, Excel, PowerPoint, Visio), VMware,

PROFESSIONAL EXPERIENCE

HCL America Inc. FL March 2016– Till Date
Sr. Network Engineer

Responsibilities:

- Involved in configuring and implementing of composite Network models consists of Cisco 7600, 7200, 3800 series routers and Cisco 2950, 3500, 5000, 6500 Series switches.
- Responsible for testing and documenting hosted Routers, switches, cabling, DHCP/ FTP/ TFTP servers and firewalls.
- Networks using routing protocols such as RIP, OSPF, BGP, EIGRP and manipulated routing updates using route-map, distribute list and administrative distance.



- Involved in Switching Technology Administration including creating and managing VLANS's, Port security, Trunking, STP, Inter-VLAN routing, LAN security etc. Deploying Layer 2 security in Server Farms by configuring switch for 802.1x port based authentication.
- Configured OSPF redistribution and authentication with type 3 LSA filtering to prevent LSA flooding.
- Provided redundancy in a multi homed Border Gateway Protocol (BGP) network by tuning AS-path.
- Worked on documentation to create **Visio diagrams** using **MS Visio**.
- Worked on **F5 BIG-IP LTM**, configured profiles, provided and ensured high availability.
- Worked on **F5** load balancers deploying many load balancing techniques with multiple components for efficient performance.
- Troubleshooting issues related to Layer 1/2/3 skills like switching / routing, WAN /Hardware and critical network links by coordinating with the vendor.
- Troubleshooting various network security related issues using Cisco SDM.
- Monitoring links using Solar Winds.
- Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, port aggregation
- Hands on experienced in Telecom/ Datacom testing tools like Spirent
- Experience with **Cisco ASR's, Catalyst 6500 series switches, 2800 series, and 3800 series. 2900 series and 3900 series routers.**
- Configured VPC, FEX and VDC's on **Nexus 5K, 7K**.
- Coordinate with Server, Security, Application teams along with 3rd party vendors to provision and setup third party servers, network devices in Data Center environment.
- **Worked on ASA 5510/5520 firewalls** configuration and Implementation for the network.

Environment: Cisco 7600/7200/3800 routers, Cisco 2950/3500/5000/6500 switches, ASA Firewall 5510/5520, OSPF, BGP, EIGRP, RIP, VLAN, LAN, WAN, VPN, F5 BIG-IP LTM, Nexus 5K/7K/2K,

HCL Technology-India
Sr. Network Engineer

July 2010– March 2016

Responsibilities:

- Responsible for implementing, supporting, and maintaining 24x7 network services.
- Coordinated efforts with Engineer's to ensure all network devices conformed to defined network standards.
- Configured and troubleshooting HSRP, BGP, OSPF, EIGRP, MPLS WAN, QoS and Route Maps.
- Troubleshoot connectivity issues involving VLAN's, OSPF, QoS etc.
- Support, monitor and manage the IP network.
- Maintained core switches, creating VLAN's and configuring VTP.
- Gained hands on experience with VLSM, STP, VTP, VLAN Trunking.
- Managed and developed network projects designed to strengthen network continuity and deploy security elements in an attempt to meet and exceed contract requirements, including system analysis and troubleshooting.
- Worked with other team members in testing of the network architecture.
- Implemented, configured redundancy protocols HSRP, VRRP, GLBP for Default Gateway Redundancy.
- Implementing, configuring, and troubleshooting various routing protocols like RIP, EIGRP, OSPF and BGP.
- Experience in migration of VLANs and also involved in lab designing.
- Primary responsibility is to design and deploy various network security & High Availability products like Checkpoint, **Cisco ASA** other security products
- Worked on Change management, monitoring network performance with network tools.
- Worked with vendors and Engineering team to test new hardware and procedures.
- Prepared and maintained documentation using MS Visio.
- Installed and set up Cisco routers and switches according to deployment plans.
- Applied access lists and NAT configurations based on implementation guidelines.
- Route configuration and point code checks for System Technician and Network Technician.
- Participated in quality system implementation project.



- Performing network monitoring, providing analysis using various tools like Wireshark, Solarwinds etc.
- Assisting the installation and configuration of Cisco Prime within our environment.
- Responsible for Cisco ASA firewall administration, Rule Analysis, Rule Modification.
- Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500.
- Installed various network hardware including concentrators, bridges, and hubs to establish communication connections with remote locations.

Religare Technova IT Services LTD- India
Network Engineer

Dec 2007 – July 2010

Responsibilities:

- Involved in troubleshooting of **DNS, DHCP and other IP** conflict problems.
- Used various scanning and sniffing tools like Wire-shark.
- Hands on Experience working with security issue like applying ACL's, configuring NAT and VPN.
- Configured BGP for CE to PE route advertisement inside the lab environment.
- Spearheaded meetings & discussions with team members regarding network optimization and regarding BGP issues.
- Provide Tier1 technical support; assist users facing network problems. Perform advanced troubleshooting, diagnostics and provide tier/level-1 solutions to network failures.
- Network Migration from RIP to OSPF and EIGRP.
- Network infrastructure support to routing and switching equipment.
- Design the layout for cable installations.
- Involved in design and deploying various network security & High availability products like Cisco ASA and other security products.
- Troubleshoot and resolved dynamic routing, Ethernet switching and host connectivity issues in a window and network environment..
- Develop, plan and maintain documentation necessary for operation in support of LAN to WAN connectivity
- Configured **2600, 2900** and **3600** routers with **RIP** and **EIGRP**.
- Implemented **VTP** and Trunking protocols (like **802.1q** and **ISL**) on **cat 3560, 3750** and **4500** switches.
- Configuration of **Access List ACL** (Std., Ext, Named) to allow users all over the company to access different applications and blocking others.
- Configured **STP** for loop prevention and **VTP for Inter-VLAN** Routing.
- Providing Network and Security Architecture and Operations support services for **Windows 2008 based web, application and database servers**.
- Troubleshoot TCP/IP problems; troubleshoot connectivity issues in multi-protocol Ethernet, Environment.

CERTIFICATIONS

- **Cisco Certified Internetwork Expert- Data Center (CCIE-DC)**
- **Cisco Certified Networking Professional(CCNF)**
- **Cisco Certified Network Associate (CCNA)**
- **Checkpoint Certified Security Administrator(CCSA)**
- **Certified Meraki Network Operator (CMNO)**

EDUCATION

Bachelor of Commerce (B.COM)

Rajasthan University (India)