

Harsha Kumar

Network Engineer - Verizon

Richardson, TX - Email me on Indeed: [indeed.com/r/Harsha-Kumar/ccd9cf8f953e1112](https://www.indeed.com/r/Harsha-Kumar/ccd9cf8f953e1112)

- Experience in Designing, Implementing and Troubleshooting Service Provider Networks, Enterprise Networks and Network administration for around 7 years.
- Expertise in 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)
- Administration and diagnostics of LAN and WAN with in-depth knowledge of TCP/IP, NAT, PPP, ISDN and associated network protocols and services.
- Network management using Syslog, Packet Sniffers, SNMP etc.
- Extensively worked on Cisco Catalyst 6509 and implemented VSS along with VDC and VPC on Nexus 5505, 7009 switches.
- Protocols Awareness: OSPF, EIGRP, RIP, BGP, HSRP, ACL, VTP, NAT/PAT, CDP, SSH, HTTP, HTTPS, NTP, SNMP, ARP, STP (802.1D), SNMP, DNS & DHCP.
- Hands on Knowledge/experience on F5 load balancers, its methods, implementation and troubleshooting on LTM and GTMs.
- Cisco ASA Firewall troubleshooting and policy change requests for new IP segments that either come on line or that may have been altered during various planned network changes on the network.
- Created and designed network layout and documented network system design with detail information using Visio software. Vendor co-ordination for hardware issues and assessment management.
- Extensive Knowledge on the implementation of Cisco ASA 5500 series firewalls.
- Experience in working with Cisco Nexus 7K, 5K & 2K Switches.
- Implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether channel, STP, RSTP and MST.
- Extensive experience in Designing, Implementing and Troubleshooting Service Provider Networks and Enterprise Networks.
- In-depth knowledge of implementing, configuring and troubleshooting Routing Protocols such as Static Routing, EIGRP, OSPF and BGP
- Extensive knowledge of deploying and troubleshooting L2/L3, TCP/IP and Multilayer Switches
- Expertise in implementation and troubleshooting of protocols such as STP, RSTP, PVST, HSRP and VRRP.
- Experience in configuration Voice over IP (VOIP).
- Extensive knowledge in developing test plans, procedures, and testing Various LAN/WAN Products and Protocols.
- Specialize in VoIP traffic analysis and designing VoIP networks for small MSPs.
- Well experienced in troubleshooting and optimizing performance in Cisco based routers and switches. Have worked in NOC environment for more than 5 years.
- Excellent problem solving and debugging skills with good verbal/written communication and presentation skills
- In-depth knowledge and hands-on experience on IP Addressing, Sub netting, VLSM and ARP, reverse & proxy ARP, Ping Concepts.

WORK EXPERIENCE

Network Engineer

Verizon - Richardson, TX - April 2016 to Present

Responsibilities:

- Deployment and decommission of VLANs on core ASR 9K, Nexus 7K, 5K and its downstream devices.
- Performed OSPF, BGP, DHCP Profile, HSRP, IPV6, Bundle Ethernet implementation on ASR 9K redundant pair.
- Worked on MPLS migrations, implemented a backup for the existing WAN connection using site-to-site IP sec VPN tunnels.
- Supported 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
- Worked on Juniper SRX firewall policies
- Created and tested Cisco router and switching operations using OSPF routing protocol, ASA Firewalls, and MPLS switching for stable VPNs.
- Configured Nexus 2000 Fabric Extender (FEX) in the Client Datacenter location which acts as a remote line card (module) for the Nexus 5000.
- Worked on F5 Big IP GTM/LTM appliances to include writing iRules, SSL offload and everyday task of creating WIP and VIPs.
- Worked with BGP attributes such as Weight, Local-Preference, MED and AS-PATH to influence inbound and out bound traffic.
- Involved in Switching Technology Administration including creation and management of VLANs, Port security, Trunking, STP, Inter-Vlan routing and LAN security.
- Used and maintained routing protocols EIGRP, OSPF and BGP on the Routers in the network and also worked on BGP Route Reflectors, Confederations.
- Created Lab setup with 7k and 5K NEXUS switches for application testing.
- Configured RIP, OSPF, EIGRP BGP, MPLS, QOS, ATM and Frame Relay.
- Involved in design and implementation of Data Center Migration, worked on implementation strategies for the expansion of the MPLS VPN networks.
- Used Bluecoat Proxy Server in conjunction with the firewalls to block malware and malicious threats and to provide control access to applications.
- Upgraded Cisco Routers, Switches and Firewall (PIX) IOS using TFTP.
- Updated the HP open view map to reflect changes made to any existing node/object.
- Deployed Cisco ISE in the networks to provide Controlled Access and Security Management.
- Used IPS Tipping point to provide real-time protection and proactive network security.
- Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, Inter-Vlan routing, LAN security.
- Worked on the security levels with RADIUS, TACACS+.
- Monitored network for optimum traffic distribution and load balancing using Solar winds.
- Created scripts to monitor CPU/Memory on various low end routers in the network.
- Upgraded Cisco IOS to the Cisco Switches and routers.
- Configured and worked on troubleshooting for Juniper EX series switches and routers.

Environment: Cisco 3750/3850/3500/2960 switches and Cisco 3640/7200/3845/3600/2800 routers, Cisco ASA5510, Checkpoint, Palo Alto, Cisco Nexus 7K/5K, 2248/3560/5020/6509, ASA, LAN, OSPF, BGP, RIP, EIGRP.

Network Engineer

Panasonic - Atlanta, GA - August 2014 to February 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 worked on troubleshooting of HSRP, BGP, OSPF, EIGRP, MPLS WAN, QoS and Route Maps.
- Configured and maintained Cisco 7200, 4400, 5000 and 6500 platforms.
- Worked on troubleshoot connectivity issues involving VLAN's, OSPF, QoS etc.
- Maintained core switches, creating VLAN's and configuring VTP.
- Designed IP Addressing schemes, VLAN tables and Switch port assignments, Trunking and Ether-channel implementation.
- Gained hands on experience with VLSM, STP, VTP, VLAN Trunking.
- Worked in the data center environment involved with the migration of the MPLS servers.
- Deployed nexus 5k and 7k switches in a datacenter
- Installed and worked on of set up Cisco routers and switches according to deployment plans.
- Applied access lists and NAT configurations based on implementation guidelines.
- 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 on Change management, monitoring network performance with network tools.
- Worked on IP Distribution for existing devices and new devices as they were added.
- Performed maintenance on equipment as necessary, performing device upgrades, modification of configurations, password changes and diagnostic testing.
- Deployed a large-scale HSRP solution to improve the uptime of collocation customers, in an event where a core router became unreachable.
- Configured RIP, OSPF, EIGRP and Static routing on Juniper Routers.
- Worked with vendors and Engineering team to test new hardware and procedures.
- Prepared and maintained documentation using MS Visio.
- Worked with other team members in testing of the network architecture.
- Implemented, configured redundancy protocols HSRP, VRRP, GLBP for Default Gateway Redundancy.
- Performed network monitoring, providing analysis using various tools like Wireshark, Solarwinds etc.
- Responsible for Cisco ASA firewall administration, Rule Analysis, Rule Modification.
- Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500.
- Responsible is to design and deploy various network security & High Availability products like Checkpoint, Cisco ASA other security products
- Installed various network hardware including concentrators, bridges, and hubs to establish communication connections with remote locations.

Environment: Cisco4400/7200/3900/7600 Routers, Cisco3750/3850/6500/3560 Switches. RIP, OSPF, BGP, EIGRP, LAN, WAN, CISCO ASA 5500, HSRP, VRRP, GLBP, VLAN, QoS, Wireshark, Solarwinds.

Network Engineer

Cigna Healthcare - Visalia, CA - December 2013 to January 2014

Responsibilities:

- Optimized performance of the WAN network consisting of Cisco 3550/4500/6500 switches by configuring VLANs.
- Coordinated efforts with Engineer's to ensure all network devices conformed to defined network standards.
- Configured various Routing protocols such as RIP, OSPF, EIGRP, static routing.
- Maintained Core Switches, creating VLANs and configuring VTP.
- Optimized performance of the network consisting of Cisco 3550/4500/6500 switches by configuring VLANs.
- Performed redistribution with OSPF, EIGRP to enable communication with backbone.
- Troubleshooting of Cisco 2900, 3900, 6500, 7500, 7200 Series routers.
- Configured static NAT, dynamic NAT, dynamic NAT overloading.

- Worked on Cisco IOS backup to a TFTP server and Upgraded and restored a Cisco IOS from TFTP server.
- In-depth expertise in the implementation, optimization, troubleshooting and documentation of LAN/WAN networking systems.
- Responsible for designing, implementing and troubleshooting temporary infrastructures for Live Webcasting Events
- Involved in F5 BIG IP LTM administration, familiar with enterprise level traffic managers like 6800, 3600, 1600,3400 series
- Involved in updating the VIP's for pools and pool members, updating iRules for the URL created in the new DNS entry
- Upgraded Cisco Routers and Switches IOS using TFTP
- Created dedicated VLANs for Voice & Data with QOS for prioritizing VOICE over DATA
- Installed and managed overall administration of LAN, WAN, systems involving design of network layouts, configuration and maintenance, Commissioning Routers & Switches, firewalls, IPS and ensuring maximum uptime during site deployment to VoIP.
- 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.
- Knowledge on VOIP protocols like H.323, RTP, SIP and good understanding about VOIP devices.
- Worked on Packet capturing, troubleshooting on network problems with Wireshark, identifying and fixing problems
- Implemented and configured of F5 Big-IP LTM-6400 load balancers

Environment: Cisco3550/4500/6500switches, Cisco 2900/3900/6500/7500/7200 routers, F5 Load Balancer, ASA, VOIP, IP Phone, OSPF, BGP, RIP, EIGRP, LAN, WAN, CISCO IOS.

Network Engineer

Avani Tech Solution Pvt Ltd - Hyderabad, ANDHRA PRADESH, IN - March 2010 to November 2013

Responsibilities:

- Worked on migration of RIP V2 to OSPF, BGP routing protocols.
 - Configured EIGRP for Lab Environment.
 - Implemented ISL and 802.1Q for communicating through VTP.
 - Worked with Client teams to find out requirements for their Network Requirements.
 - Designed solutions for frozen requirements using Cisco Routers and Switches.
 - Deployed the network infrastructure to meet the requirements.
 - Created VLAN and Inter- Vlan routing with Multilayer Switching.
 - Worked on documenting and Log analyzing the Cisco ASA 5500 series firewall
 - Monitored performance of network and servers to identify potential problems and bottleneck.
 - Performed administrative support for RIP, OSPF routing protocol.
 - Maintained redundancy on Cisco 2600, 2800 and 3600 routers with HSRP.
 - Worked on network management using Cisco Works LMS.
 - Provided technical support on hardware and software related issues to remote production sites.
 - Responsible for LAN and internet connection file and print server.
 - Maintained and installed new internet connections for customers.
 - Installed Windows NT Server and Windows NT Workstations.
 - Co-ordinated the Tech Support as it relates to LAN & WAN systems
 - Assisted in network engineering efforts for consistence of infrastructure of an Internet Service Provider.
- Experience in designing and implementation of VLAN for new users.
- Actively participated in upgrading fast Ethernet, Layer 3 switched/routed LAN infrastructure from Cisco 3640 to Cisco 2811 ISR routers and switches at access level to 2950, 3550

- Responsible for creating and maintaining diagrams and documentation of network systems

Environment: Cisco 2600/2800/3600 routers, CISCO ASA 5500, BGP, OSPF, EIGRP, RIP V2, LAN, WAN, ISL, 802.1Q

VTP, VLAN, LMS, NT SERVERS AND WORKSTATIONS, CISCO 2811SR.

EDUCATION

B. Tech in Electronics and communication in Electronics and communication

Jawaharlal Nehru Technological University - Hyderabad, ANDHRA PRADESH, IN

May 2010

SKILLS

BGP (6 years), Cisco (6 years), EIGRP (6 years), LAN (6 years), OSPF (6 years)

ADDITIONAL INFORMATION

SKILLS

Routers: Cisco 7600, 7200, 3800, 3600, 2900, 2800, 2600, 1800, 1700

Routing Protocols: OSPF, EIGRP, BGP, RIP v1/v2, PBR, Route Filtering, Redistribution, Summarization, and Static Routing.

Switches: Nexus 2K/5K/7K, Cisco Catalyst 2900, 3500, 3700, 6500, 4500, 3850, 3560, 3750, 2960

Switching Protocols: LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi- Layer Switch, Ether channels, Transparent Bridging

Network Security: Cisco ASA [...] ACL, IPSEC, F5 Load Balancer, Checkpoint, IOS Firewall features, Palo Alto, DMZ Setup, NAT/PAT

Load Balancer: F5 Networks (Big-IP) LTM 8900 and 6400

LAN: Ethernet (IEEE 802.3), Fast Ethernet, Gigabit Ethernet

WAN: PPP, HDLC, Channelized links (T1/T3), Fiber Optic Circuits, Frame Relay, VOIP

Gateway Redundancy: HSRP and GLBP

WAN Optimizer: Riverbed Steelhead Appliance

DHCP and DNS: Infoblox, IP-Soft

Various Features and Services: IOS and Features, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP, FTP

AAA Architecture: TACACS+, RADIUS, Cisco ACS

Network Monitoring Tools: Wireshark, SNMP, Solarwinds, TCP dump