

# Hari Gupta

## Network Engineer - True Value

Texas, VT - Email me on Indeed: [indeed.com/r/Hari-Gupta/5dd064e38238c23f](https://www.indeed.com/r/Hari-Gupta/5dd064e38238c23f)

- Over 7+ years of experience in routing & switching, firewall technologies, system design, Network Planning, Implementation and Configuring, troubleshooting of networking systems.
- Design, configured and support for Cisco Nexus Platforms (Nexus [...])
- Hands on experience on [...] series with different LAYER 2 and Layer 3 line cards namely F2, F3 and M2 & M3
- Had a chance to perform ISSU on Nexus, worked on different versions such as 5.0, 6.2(16), 7.2(1) [...] DX (1)
- Experience configuring VDC, VPC and other nexus features.
- Experience with different Network Management Tools and Sniffers like Wireshark (ethereal), HP-Open view, RSA envision, Net flow, Solar winds, Riverbed, Infoblox and Cisco works to support 24 x 7 Network Operation Centre.
- Worked on the most advanced supervisor in the Nexus 7700 family i.e. Sup2E
- Hands on experience on different Nexus 5000 series such as 56128P, [...] 5672UP
- Hands on experience installing TOR switches
- Experience in configuring VDC, VPC and FCOE, upgrading NX-OS for Nexus Family Switches
- Migration of network devices (Palo Alto, F5, Juniper, Aruba, Riverbed, Routers & switches) from one zone to other. Changing the management IP address.
- Implemented F5 Local Traffic managers (LTM), Global traffic manager (GTM) of series 8900, 6400, 6800, 3400, 5100, 3600 and 3DNS migrated those to GTM
- Experience with convert Cisco ASA VPN rules over to the Palo Alto solution.
- Worked on WAN Optimization devices desired (Cisco, Riverbed, etc.)
- Good understanding of Fabricpath and hand on experience on OTV
- Worked in an environment with Border leaf, Spine and Leaf architecture
- Worked on technologies like MPLS - Multiprotocol Label Switching, Riverbed and CDN
- Maintained redundancy FHRP Cisco on 650TE, NX 7710, NX-7010 router with HSRP
- Working Knowledge of dynamic routing protocols such as EIGRP, OSPF, BGP, MPLS.
- Working Knowledge in IPV4, IPV6, RIP, EIGRP, OSPF, DHCP, DNS, SNMP, RMON, NAT
- Deployed F5 Enterprise manager of 4000 series for the all cluster devices over the network for easier management of configurations like SSL certificates, disable and enable of nodes states.
- Configured switching VSS on 6509e with sup 720 & Quad sup 2T
- Performed IOS upgrades on Catalyst 2900, 3800, 4500, 6500 series switch and 2500, 2600, 3600 series routers
- Performed migration from 6k series to 7k series
- Designed upgraded on Spanning-Tree Protocol and VTP tuning
- In-depth knowledge and hands-on experience on IP Addressing, Sub netting, VLSM and ARP, reverse & proxy ARP and Ping Concepts.
- Implemented data center core redundancy contingency counter measures with HSRP and GBLP
- Proposed upgrades, installed and configured solar wind Log, Event Manager and solar winds Orion modules for network infrastructure monitoring purposes
- Excellent working knowledge of TCP/IP protocol suite and OSI Layers
- Password recovery, upgrading of IOS of Cisco devices.
- Switches ASR/CSR routers and firewalls
- Troubleshooting for Layer 2 LAN technologies including but not limited to Ethernet (Switched, FastE, Gige), Spanning Tree, VLANs, VTP and Trunking (802.1q) and Aruba Wireless Platform
- Experienced with Riverbed Steelhead technologies SHA xx50 to CXA platform, Interceptor, CMC, Cascade
- Configured network performance and troubleshooting iPerf, wire shark, RSPAN/ERSPAN tools

- Checkpoint Firewalls, Firemon, Appneta, VPN, Datacenter, PRTG, Syslogs, Cisco, Nexus, ACS, WAN Optimization, Riverbed Cascade, Riverbed Profiler, Net flow, Planning, Budgeting, Supervising, Setting Standards, Documenting MOP, Managing Multiple Projects.
- Hands on experience on Checkpoint smart dashboard and smart log with R77 Gaia
- Configured Security policies including NAT, PAT, Route-maps and Access Control Lists.
- Experience with Unicast and Multicast protocols like PIM, MSDP, Auto-RP, BSR, IGMP, IGMP Snooping, MLD, MLD snooping etc. is required
- Experience deploying BIG-IP F5LTM Load Balancers for load balancing and traffic management of business application
- Implemented Site-to-Site VPNs between ASA Firewall and Router
- Had knowledge in Router memory & IOS upgrade with SCP
- Experience with Load Balancers for administrating and monitoring global & local traffic.
- Worked as a team lead for couple of months
- Great team player and able to work under pressure.

Willing to relocate: Anywhere

Authorized to work in the US for any employer

## WORK EXPERIENCE

### Network Engineer

True Value - Chicago, IL - January 2016 to Present

#### RESPONSIBILITIES:

- Design, implement and gave support for NEXUS(7700 SUP-2E,56128-5000,2248TP-Q)
- Design, build, and implement various solutions on Check Point Firewalls, F5 Load balancers and F5 Global Traffic Managers.
- Create Virtual IP address, Pools and Persistence profiles on F5 LTMs.
- Design and configured OSPF, BGP on Juniper Router and SRX Firewalls
- Design, implement and administer IPv4/IPv6 enterprise network
- Performed IOS upgrades on Catalyst 2900, 3500, 4500 series switch and 2500, 2600, 3600 series routers
- Design and implement campus switch network with Cisco devices such as (Nexus 9000, 7000, 5000, 2000 series) in multi VLANs environment and inter-VLAN routing, HSRP, 802.1q trunk, ether channel
- Configured BPDU Guard, port-fast, uplink fast and other spanning tree features.
- Configured VDC's and implement layer 2 topologies using Fabric path, L2-L3,VRFs,HA,Port Channel and OTV functionality
- Designed and installed Riverbed application acceleration solution
- Storage VDC with FCoE to Nexus 5548UP switch
- Deployed the Riverbed Cascade solution for the network triggering critical devices on the network to send Net flow for a better analysis if any event occurred
- Monitor network activity using riverbed cascade profiler.
- Admin Riverbed Cascade and Riverbed Steelheads - WAN Optimization
- Active/Active FEXs 2232 to NexusUP with NPV/NPIV, Fabric path, FCoE, Port channel, ISL, Trunking, VSANs, VFC, Flogi Registration, pWWN/FCID Zoning functionality and connections of Nexus 5548UP to UCS6248-FI
- Implemented AntiVirus and web filtering on Juniper SRX 240at the web server
- Maintain and troubleshoot switch applications and Network connectivity including DNS, DHCP, LAN and TCP/IP issues
- Performed IOS upgrades on catalyst 2900,3500,4500 series switch and 2500,2600,3600 series routers
- Configured RIP, EIGRP, OSPF and BGP in routers
- Configured MPLS L3 and L2 VPNs for customers

- Configuring and troubleshooting Riverbed, and Cisco PIX and ASA 5500-Series firewalls
- Rack and Stack, Installed and configured new routers and switches
- Used DHCP to automatically assign reusable IP addresses to DHCP clients
- Upgrade IOS, Flash memory and DRAM on core routers and field routers
- Also involved in Cisco ACE configuration and deployment
- Build network documentation which includes accurate site inventory, site network diagrams, logical LAN/WAN diagram, network device list (routers/switches), server information sheets, network administration information document
- Participated in various client projects to continually improve/upgrade network infrastructures
- OS upgrades in Nexus 7010 through ISSU (In service software upgrade).
- configured VPC, VDC and ISSU software upgrade in Nexus 7010
- Support for enterprise environment with distributed call processing
- Created an enterprise dial plan in Cisco Call Manager and Cisco Gateways
- Created and executed the test plans to meet the requirement of the project
- Maintained day to day Operations and configuring FIREWALLS.
- Review monitoring and security risks for our network infrastructure, update security policies using Juniper NSM and Palo Alto firewalls.
- Involve in migration of F5 Local traffic managers of LTM 5100 series to LTM 6800 series.
- Configure & manage around 500+ Network & Security Devices that included Juniper (Netscreen) Firewalls, and F5 BigIP Load balancers.
- Supporting network security devices such as firewalls and proxies with emphasis on remote access technologies such as VPN and Citrix NetScaler
- Coordinating with Vendor regarding Link status and reporting on timely bases to Superiors
- Experience with hardware load balancer administration and support, preferably with F5
- Configured IPSEC VPN access for client to site remote access
- Configuring and troubleshooting DNS and DHCP servers
- Used DHCP to automatically assign reusable IP addresses to DHCP clients
- Configuring and monitoring Routers and Switches.

## **Network Engineer**

JP Morgan Chase - Jersey City, NJ - December 2013 to December 2015

### **RESPONSIBILITIES:**

- Experience working with Cisco Nexus 7000 Fabric Extender and Nexus 7010 5000 series to provide a Flexible Access Solution for a datacenter access architecture
- Create testing tools and scripts as needed to support system level testing activities
- Experience developing and maintaining comprehensive system test plans
- Experience in network performance testing
- Designed and implement campus switch network with Cisco Layer switch (3750,4500,6500& Nexus 7000,5000,2000 series) in multi VLANs environment and inter-VLAN routing,HSRP,802.1q trunk, ether channel.
- Security policy review and configuration in Palo Alto and Junipers Firewall in US offices and Datacenter. Designed and configured of OSPF, BGP on Juniper Routers and SRX Firewalls.
- Migration of network devices (F5, Juniper, Aruba, Riverbed, Routers& switches) from one zone to other. Changing the management IP address.
- Performed IOS upgrades on catalyst 2900,3500,4500 series switch and 2500,2600,3600 series routers
- Upgrade IOS,FLASH memory and DRAM on core routers and field routers
- Technical Responsibilities include technical lead/level 3 support which included Cisco WAN Network Core, Distribution, and Access Layer, Bluecoat, F5 load balancer, Riverbed, netbotz, and APC Enterprise Manager, configuration and installation of Cisco routers using standard routing protocols, configuration and installation

of Cisco Catalyst switches supporting Cisco ASA 5500 and Checkpoint firewalls, Cisco IOS upgrades and troubleshooting for various LAN/WAN network infrastructures.

- Responsible for Checkpoint firewall administration across global networks
- Design, implement and gave support for NEXUS (7000 SUP-2, 56128,5548-5000, 2000)
- Experience in Configuring, upgrading and verifying the NX-OS operation system
- Configuring Virtual Chassis for Juniper switches EX-4200,Firewalls SRX-210
- Working with Cisco for opening TAC Case and resolving to project deadlines
- Checking and configuring Cisco 7600 routers at data center for remote sites' issues
- Expertise in physical infrastructure like structured cabling, IP address management, racking, stacking and Data Center concepts
- Experience configuring Virtual Device Context in Nexus 7010
- Substantial lab testing & validation prior to implementation of Nexus 7K, 5K & 2K connecting to blade servers.
- Converting the WAN protocol from OSPF to BGP, and Using OSPF as internal protocol
- Performing troubleshooting on slow network connectivity issues, routing issues involves OSPF, BGP and identifying the root cause of the issues.
- Configured and maintained IPSEC and SSL VPN's on Palo Alto Firewalls.
- Identify, design and implement flexible, responsive, and secure technology services.
- Implemented Positive Enforcement Model with the help of Palo Alto Networks. Innovated with support of 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.
- Monitor network activity using riverbed cascade profiler.
- Experience with configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000
- Implemented security policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS)
- Worked on Router series such as 2800, 2600, 2900, 3600, 3700, 3900, switches such as Cisco 3725, 3560, 3550, 2960, 2950, 4500 & 6500 and Firewalls like Cisco PIX 515, 525 and ASA 5510 in failover mode
- Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4. Configured IP access filter policies
- Knowledge of JUNOS platform and worked with IOS upgrade of Juniper devices
- Coordinating with service providers for WAN link outages
- Hands on experience on up gradation of Cisco IOS & Firmware of different Cisco devices & modules
- Assisted the management of projects using CDW's project management methodology
- Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, 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
- Expertise with Hardware load balancer administration and support, preferably with F5 and Cisco ACE load balancers
- Worked with application team to fully test the new GTM set-up to VIP cut-over.

## **Network Engineer**

Oshkosh Corporation - Oshkosh, WI - April 2011 to November 2013

### **RESPONSIBILITIES:**

- Configured Routing protocols such as OSPF, BGP, static routing and policy based routing
- Worked on upgrading LTM from 9.x to 10.x based on the End of line process.
- Hands on experience on the LTM products like 6800 with 10.x and 3600 with 4.x TMOS versions
- Team member of Configuration of Cisco router with VPN and Configuration of Catalyst switches
- Configuration and troubleshooting link state protocols like OSPF in single area and multiple areas
- Configured HSRP and VLAN trucking 802.1Q, VLAN Routing on Catalyst 6500 switches

- Optimized performance of the WAN network consisting of Cisco 3550/4500/6500 switches by configuring VLANs
- Support virtual server request and build automation effort in the VIP creation space
- Work with application team to fully test the new GTM setup prior to VIP cut-over
- Support for enterprise environment with distributed call processing
- Created an enterprise dial plan in Cisco Call Manager and Cisco Gateways
- Design and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls
- Configuring RIP, OSPF and Static routing on Juniper M and MX series Routers
- Dealt with F5 GTM solutions, including WideIP and Pool Load Balancing Methods, probes and monitors to ensure that the day-to-day Security Operations runs smooth.
- Configuring VLAN, Spanning tree, VSTP, SNMP on EX series switches
- Configured VLANs with 802.1q tagging. Configured Trunk groups, ether channels, and Spanning tree for creating Access/distribution and core layer switching architecture
- Hands-on work in Inter-VLAN routing, redistribution, access-lists and dynamic NAT
- Configured IT LAN/WAN elements and held responsibility of maintaining and monitoring network performance
- Provided Tier1 technical support assisted users facing network problems
- Performed Network Migration from RIP to OSPF and EIGRP.
- Performing network monitoring, providing analysis using various tools like Wireshark and Solar winds.
- Provided Network infrastructure support to routing and switching equipment's
- To secure configurations of load balancing in F5, SSL/VPN connections, Troubleshooting CISCO ASA firewalls, and related network security measures.
- Redistributed routing protocols and Frame-Relay configurations
- Troubleshoot and solve network systems issues involving Cisco switches, Aruba wireless intrusion detection systems, VSAT
- Wireless rollout: responsible for deploying 1500 Aruba Wireless Access Points to different sites.

## **Network Administrator**

AIM Specialty Health - Deerfield, IL - June 2010 to March 2011

### **RESPONSIBILITIES:**

- Studied and analyzed client requirements to provide solutions for network design, configuration, administration, and security
- Monitor performance of network and servers to identify potential problems and bottlenecks
- Installing & configuring firewalls like Checkpoint NG & NGX.
- Installing and configuring the VPN's for the clients (site to site) using IPsec and GRE.
- Assisted in troubleshooting LAN connectivity and hardware issues in the network
- Involved in troubleshooting IP addressing issues and Updating IOS images using TFTP
- Involved in configuring and implementing Cisco 3750,2620 and 1900series routers and Cisco 2950,3925 switches
- Configured IPSEC VPN access for client to site remote access
- Configuring and troubleshooting DNS and DHCP servers
- Used DHCP to automatically assign reusable IP addresses to DHCP clients
- Configuring and monitoring Routers and Switches
- Dealt with F5's load balancing products in managing the key role issues.
- Dealt with NAT configuration and troubleshooting issues related access lists and DNS/DHCP issues within the LAN network.
- Support for fault diagnosis & rectification of LAN & WAN networks
- Performed scheduled virus checks and updates on all upgraded servers

- Tasks included network layer configuration of IP addressing using FLSM, VLSM for all applications and servers in company environment<sup>1</sup>
- Interacted with support services to reduce the downtime on leased lines
- Used TFTP server to backup Cisco configuration files
- Troubleshoot problems on day to day basis; provide solutions to fix the problems
- Monitor the operability and reliability of the network.
- Maintenance and Troubleshooting of connectivity problems using Ping, Trace route.
- Managed IP address space using subnets and variable length subnet masks (VLSM).
- Worked on ticketing issues which include documentation and providing support other teams in any network related issues.

## SKILLS

BGP (6 years), Cisco (7 years), EIGRP (6 years), LAN (7 years), security (7 years)

## ADDITIONAL INFORMATION

### TECHNICAL SKILLS:

Routing Protocols: RIP, OSPF, EIGRP, IS-IS, BGP

Routers: CISCO 1800, 2600, 2800, 3600, 3800, 7200

Switches: CISCO 2900, 3500, 4500, 5000, 6500, Nexus 2000, 5000 & 7000, 7700VPC, VDC, OTV, FABRIC PATH

LAN Technologies: Ethernet, TCP/IP, CDP, STP, RSTP, VTP, IGMP, 802.1x, VLAN, Inter-V-LAN

WAN Technologies: Frame-relay, PPP, HDLC, ISDN, ATM, MPLS, SES, Channel & Leased lines

Application Protocols: DHCP, DNS, SMTP, POP3, FTP, TFTP

Network Managements: SNMP, SSH, TELNET, ICMP

N/W Protocol: Sniffer Wire Shark

Wireless: [...] WLAN Controllers, Cisco, Aruba access points

Security: CHECKPOINT, APPLICATION R77.20 and R77.30

Application Layer: FTP, HTTP, DNS, DHCP, SMTP, SNMP

Tunneling Protocols: L2TP, IPsec, PPPoE, GRE, MPLS, IEEE 802.1Q

Load Balancers: F5 GTM, F5 [...] Series, F5 Networks (Big-IP), IKEV2

Languages/Tools: C, C++, VBScript, Visual Studio 2008, MATLAB, Dreamweaver, Spirent

Operating Systems: [...] MS DOS, UNIX, LINUX