**Harish Reddy G**

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* CCNP Certified with 7 Plus years of experience in Designing, Deploying and Maintaining and configuring LAN, WLAN, WAN and Security Networks
* Experience with configuring Nexus 2000 Fabric Extender (FEX) which acts as a remote line card (module) for the Nexus 5000 and also configured VPC, VDC and ISSU Software Upgrades
* Experience working with Cisco Nexus2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for a datacenter access architecture
* Performed various configurations using the CISCO SDM like configuring VPN, Security Audits, Firewalls, VLANS.
* Hands on experience in troubleshooting and deploying of various IP Routing Protocols EIGRP, RIP v1/2, OSPF, IS-IS & BGP.
* Implemented security policies using ACL, Firewall, IPSec, VPN, AAA Security TACACS+, and Radius on different series of routers.
* Implementation of DHCP, DNS, FTP, TFTP, Frame Relay, MPLS, ATM, ISDN.
* Juniper: EX-2200,EX-4200, EX-4500, MX-480, M Series, SRX210, SRX240.
* Ability to manage all phases of network installation and administration.
* Excellent customer management/resolution, problem solving and debugging skills with good verbal/written communications and presentation skills.
* Well organized, Self starter, Quick learner, Self Motivated, Team player with analytical, technical and communication skills.
* Excellent skills to implement VLANS, private VLANS, Port security, STP and RSTP (802.1W), standard and extended access lists for managing access based security, creating root views for administrative privileges.

**TECHNICAL EXPERTISE:**

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| **Network Equipment:** | **Cisco routers**: 1700, 1800, 2500, 2600, 3200, 3600, 3700, 3800, 4000,  7200, 7600.  **Cisco switches**: 2900 series, 3560, 3750, 4500, 6500, Avaya switches |
| **Network Management** | Network Troubleshooting, Hardware Troubleshooting, Network planning  And Design, Network Administration SSH, Telnet, SNMP, SDM, ICMP,  Cisco Works |
| **Networking Protocols** | RIPv1 & RIPv2, IGRP, EIGRP, OSPF, BGP, TCP/IP, IPSec, UDP, VRRP, HSRP, ATM, MPLS, HTTP, FTP, STP, and RSTP, PIM. |
| **Virtualization** | Packet tracer 5.0, OPNET, Boson Netsim, GNS3. |
| **LAN Technologies** | VLAN, Private VLAN, Spanning Tree, VTP, 802.1Q Trunking, Fast Ethernet, Gigabyte Ethernet, IGMP & IGMP Snooping. |
| **WAN Technologies** | PPP, Frame relay, ISDN, ATM, MPLS, T1/T3 & E1/E3 |
| **Network Security** | ACL, IPSec, VPN, Port-security, AAA, Zone-Based Firewalls, IOS based  Router security firewalls, IDS/IPS |
| **Network Technologies** | MANET, SONET, TDMA, FDMA, CDMA. DSL, POP3 |
| **Operating Systems** | Windows NT, XP, 2000, 2003, Vista and Windows 7, CISCO IOS (11.X, 12. X). |

**Professional Experience**

**CenturyLink, Chicago, IL.**

**April 2016-Present**

**Role: Network Engineer**

**Responsibilities:**

* Troubleshooting problems associated with Layer 1/2/3 skills like shift / routing, WAN Hardware and important network links by coordinative with the ISP.
* Troubleshooting the Juniper SRX100 and a hundred and ten series, Juniper NetScreen routers with Site-Site VPN, and firewalls for Supervalu Retail sites.
* Worked with Juniper's QFX Switches and MX Routers (mainly vMX/960 and vQFX/5100)
* Configured and maintained Core Network Layer 2 / Layer 3 (Juniper SRX, EX, XRE, & QFX)
* Experience working with Juniper devices like EX-2200,EX-4200, EX-4500, MX-480, M Series, SRX650, SRX240 and Juniper J series j230, M 320 and MX960 routers.
* 24x7 on-call step-up support as a part of the safety operations team.
* Working closely with knowledge center management to investigate the information center sites for cabling necessities of assorted network instrumentation.
* Provided application level redundancy and accessibility by deploying F5 load balancers long-term memory.
* Having knowledge Center style expertise, putting in and Configuring Network Devices in a very knowledge Center as well as mend the cables within the Patch Panel. style and enforced network
* Hands-on expertise within the network management of circuits mistreatment TDM and Frame Relay Managing and providing support to numerous project groups with regards to the addition of recent instrumentation like routers switches and firewalls to the DMZs.
* Implementing traffic engineering on high of Associate in Nursing existing Multiprotocol Label shift (MPLS) network mistreatment Frame Relay and Open Shortest Path initial (OSPF).
* Provided redundancy in a very multi homed Border entree Protocol (BGP) network by tunings AS-path
* Handling enterprise outages effectively and driving towards the resolution. Coordination of fault escalations in conjunction with the first high-level technical management of high priority or technically complicated calls.
* Knowledge and skill of 802.11 a/b/g/n LAN normal for wireless Technology.
* Working with capability management on network information measure utilization coverage of the websites WAN link and merchant co-ordination for brand spanking new site turnovers / WAN links.
* Preparing Metrics report description on SLA performance of tickets and method quality report back to analyze team performance & discussion on the advance areas (By monthly).
* Providing coaching to new comers and effectively operating towards a method quality improvement within the Team.
* Configure bequest route map configurations mistreatment the new Cisco IOS XR Routing Protocol Language (RPL).
* Supporting EIGRP and BGP supported the network by partitioning level two & three issues of internal groups & external customers of all locations
* Performing troubleshooting on slow network property problems, routing problems that involves OSPF, BGP and distinctive the foundation reason for the problems.
* Extensive active expertise with complicated routed local area network and WAN networks, routers and switches.
* Hands-on expertise with Ether Channel, Spanning Tree, Trunking, ACLs, Syslog. expertise within the setup of HSRP, Access-Lists, and RIP, EIGRP, and tunnel installations.
* Proficiency in configuration of VLAN setup on varied Cisco Routers and Switches.
* Work allotted tickets to see the purpose of failure and resolve issues remotely utilizing obtainable tools and different Operation Center resources.
* Analyzed and tested network protocols (Ethernet, TCP/IP) mistreatment Wireshark tool.
* Provide step-up support to L1 members of network team.
* Worked with completely different ISP globally for any WAN circuit and BGP routing problems. gap up cases for cerium routers, river bottom optimizer problems.
* Work & intensify issues effectively so as to satisfy client SLA's (service level agreements).
* Perform downside management and root cause analysis for purchasers pro re nata.
* Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.\

Environment: Nexus 2k/5k/7k, Cisco 6500/7500/7200 Routers, Cisco 3550/4500/6500 switches, Juniper SRX100, LAN, WAN, OSPF, RIP, BGP, EIGRP, HSRP, PPP, VPN, Checkpoint, Cisco ASA.

**LL GLOBAL, INC. – Atlanta, Georgia.**

**October2015-March2016**

**Role: Network Engineer**

**Responsibilities:**

* Analyzed and designed new network for corporate office.
* Configures Cisco routers (2600, 2811, 3600, and 7200) and switches (2950, 3500, 6500, 4500) for LAN and WAN services.
* Designed and installed new Branch network systems. Resolved network issues, ran test scripts and prepared network documentation.
* Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
* Ensure problems are satisfactorily resolved in a timely manner with focus on providing a high level of support for all customers.
* Providing technical consultancy for better application response using QoS
* Performed RIP, OSPF, BGP EIGRP routing protocol administration.
* Maintained redundancy on Cisco 2600, 2800 and 3600 router with HSRP.
* Configuring NAT for internet access for the LAN.
* Extensively worked on Network management using SSH, Telnet, SNMP, and ICMP.
* Setup TFTP server to maintain CISCO router configurations and CISCO images. And perform network software and hardware upgrades.
* Configuring and maintaining TACACS+/ Raduis servers for AAA authentication and user authorization.
* Implement ACLs and authenticate BGP to ensure higher security level.
* Coordinating with service providers for WAN link outages.
* Working on Cisco 6509 and 4507 series switches for LAN requirements, that includes managing VLANs, Port Security and troubleshooting LAN issues
* Installed and configured DNS and DHCP server.
* Involved in troubleshooting of DHCP and other IP conflict problems.
* Performed password recovery on switches with corrupted IOS images.
* Provide technical support for clients with dial-up internet issues.
* Worked on Network Operations using Ticketing system using Remedy
* Configured OSPF and EIGRP as IGP routing protocols as well as BGP to connect to ISPs.
* Configured Cisco ASA firewall in enterprise network (ASA 5510, 5520, 5550).
* Installed and configured Cisco 2800, 2600, 3800, 7200 series routers and Catalyst 2950, 3500, 4500, 6500 switches from scratch in an Enterprise network.
* Tasks included configuring EIGRP, RIP, OSPF, BGP and static routing, Telnet and SSH sessions, NAT and PAT, VTP modes, domains, and passwords.
* Worked on switching related tasks including implementing VLANS and configuring ISL trunk, 802.1Q, STP, RSTP, and configuration of Ether channel.
* Monitored and maintained network stability and performance by utilizing various network management tools.
* Maintained close communication with clients and management staff when planning, scheduling, and performing upgrades to ensure mission-critical services and connections were not impacted during business hours.
* Resolved high, medium and low priority tickets in timely manner by utilizing Remedy ticket system.
* Prepared engineering documents and network diagrams in Microsoft Visio.

**UPS, Dayton, NJ**

**June 2014 –October2015**

**Network Engineer**

**Responsibilities:**

* Worked with Cisco Layer 3 switches 3750, 4500, 6500; Cisco Nexus 5596 and 7010 in multi VLAN environment with the use of inter-VLAN routing, 802.1Q trunk, ether channel.
* Extensively used TCP/IP tool like TELNET for remote login to routers and SSH for secure login.
* Configuring and Maintaining TACACS+ for AAA.
* Migrated AAA server to ISE 2.0 from legacy ACS servers.
* Managed IP addressing and implemented IP Access Lists.
* Worked extensively on Cisco Firewalls, Checkpoint, Cisco PIX &ASA 5500(5525/5585) Series and Experience with Firewall Administration, Rule Analysis, Rule Modification.
* Certifying items, Substantial lab testing & approval preceding usage of Nexus 9k, 7K, 5K & 2K interfacing with servers.
* Configured HSRP between the two internet Edge routers and running OSPF between the routers for ECMP routing.
* Implemented VOIP solutions using SIP & H.323, also have sound knowledge of Avaya VOIP products.
* Knowledge on Python script for automating VTP configurations on cisco switches.
* Experience with Frame Relay, ATM, ISDN and TCP/IP application protocols such as DNS, WINS, HTTP, DHCP, FTP, and SMTP.
* Maintenance of an SD-WAN network for clients.
* Deployed F5 load balancer LTM/GTM/ APM/ ASM, Wireless Controllers and Wireless Access Points, VMWare NSX, Cisco Catalyst 6509, Cisco NAC.
* Tested WAP, IXIA breaking point and Spirent Axon by running python automation script, splunk software for proper installation.
* Good Experience Cisco's SD-WAN (IWAN) and VPN for Enterprise and MSP networks
* Involved in Switching technology Administration including creating and managing VLANS, Port security, Trunking, RPVST+, Inter-VLAN routing, LAN security etc.
* Troubleshot the TCP/IP networks for outages and performance using Solar winds.
* Configured PVSTP+ for loop prevention and VTP for Inter-VLAN Routing.
* Installed, provisioned VOIP for service with hosted SIP servers and also advanced H.323.
* Implementing QOS policy to prioritize sensitive traffic based on voice traffic.
* Knowledge in Net Scaler Platform for SDN and remote access VPN solutions.
* Set up VSS cluster, ether channel, VLAN Trunking, VTP and inter-VLAN routing on 6506.
* Configures and managed Nexus 2248 and 2400 series of wireless controller.
* Implemented port aggregation & link negotiation using LACP and PAGP.
* Configured site to site VPN technologies using IPSEC.
* Configuring VPN, GRE tunneling, Checkpoint, Frame Relay, ATM, MPLS, IDS/IPS, Splunk proxies for threat management.
* Knowledge on IWAN (Intelligent WAN - Cisco SD-WAN) and VPN (Secure Transport) for enterprise network.
* Python script for automating interface turn-ups and sending email alerts about changes.
* Experience in installation and analysis for a broad range of LAN / WAN communication systems.
* IP addressing and design schemas for a variety of IP Pools using DHCP scope or local IP pools for NAC controls.
* Involved in design, implementation and configuration of HSRP for load balancing on L3 switches on different location of office on the switched Network.
* Design and create dedicated VLANs for Voice and Data with QOS for prioritizing VOICE over the DATA on Catalyst switches and basic VOIP configurations.
* Worked with Routing Protocols of OSPF, and BGP.
* Knowledge on DNS zone migration and DHCP scope migration.
* Worked on F5 BIG-IP LTM 6900, configured profiles, and provided and ensured high availability.
* Analysis of network for preparation of VOIP implementation and provide SIP VOIP solutions on MPLS and Internet based connectivity.
* Installed and Register, upgrade, configure and troubleshoot VOIP phones (7960, 7975, 7970).

**Bluegrass Studios, India.**

**Sep2012- April 2014**

**Role: Network Engineer**

**Responsibilities:**

* Configured Client VPN technologies including Cisco’s VPN client via IPSEC.
* Was responsible for designing and implementation of customer’s network infrastructure.
* Designed, Implemented and configured HSRP on different location of office on the switched Network and Managed the Entire multilayer switched network.
* Experience with Checkpoint Firewall policy provisioning.
* Configured and Maintained the Local Network using 2900, 6500 series Switches and 2800 series Routers. Configured and installed the 3600 series Router.
* Implemented and Maintained Routing Protocols EIGRP and OSPF in the Network. .
* Achieved proficient in Adaptive Security Device Manager (SDM) and used it while performing security audit on routers.
* Created effective network security by migrating from Check Point FW-1 NG to ASA 5510 Firewalls.
* Configured Firewall logging, DMZs and related security policies and monitoring.
* Designed perimeter security policy; Implemented Firewall ACL’s; Allowed access to specified services; Enabled IDS/IPS signatures in Firewall & fine-tuned TCP & UDP.
* Involved in Installing and Configuring a Cisco secure ACS server for AAA authentication (RADIUS/TACACS+).
* Used load balancers ACE and load balancing technique with multiple components for efficient performance and to increase reliability through redundancy.
* Involved in migration from Frame-Relay/ATM network to MPLS-based VPN for customer’s WAN infrastructure.
* Troubleshoot latency and throughput issues on MPLS and Dedicated Internet Access circuits.

**ADP Private Limited, India.**

**August2009- March 2012**

**Role: Network Engineer**

**Responsibilities:**

* Experience in troubleshooting VLAN, STP (Spanning tree protocol), & Switch Trunk and IP subnet issues
* Dealt with NAT configuration and its troubleshooting issues related access lists and DNS/DHCP issues within the LAN network.
* Involved in Configuration of Access lists (ACL) on checkpoint firewall for the proper network routing for the B2B network connectivity.
* Experience in routing protocols like OSPF, BGP, and standby protocols like HSRP and VRRP application in the routers
* Involved in configuration and management of different Layer 2 switching tasks which includes address learning, efficient switching etc.
* Involved in HSRP standby troubleshooting and load balancing protocol GLBP, Port channel management of the network
* Designed VLAN’s, access lists (ACL), troubleshooting IP addressing issues and Updating IOS images and other hardware installations
* Provisioning and troubleshooting Ethernet services, Gigabit networks and Connectivity issues with WAN types (T1, E1, DS3, and Frame relay) data circuit debugging.
* Experience MPLS connectivity using VRF id and have broad knowledge on multi-protocol label switching for (MPLS-VPN) and traffic engineering (MPLS-TE)
* Configured firewall filters, routing instances, policy options, on Juniper m320 an d T640
* Dealt with the escalation problems from Level1, Level 2 & Level 3 for routing, switching and WAN connectivity issues using ticketing system Remedy.