Mani Garapati  

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224-423-5258

**PROFESSIONAL SUMMARY :**

* Visionary and result oriented, technically sophisticated and a seasoned Network Consultant with over 8+ years of professional and hands-on experience in network Planning, Designing, Implementation, Operation and Optimization.
* CCNA Certified Professional with experience in routing and switching technologies, system design, troubleshooting of complex network systems including high-end routers: ASR1K, ASR9K, 2600, 2800, 3600, 7200, 12000 Series Routers, and Catalyst 4500, 6500, and 7600 switches.
* Extensively worked on Cisco Routers, Switches, Load Balancers and Firewalls.
* Expertise in physical infrastructure like structured cabling, IP address management, racking, stacking and Data center concepts.
* In-depth knowledge and hands-on experience on IP Addressing, Sub netting, VLSM and ARP, reverse & proxy ARP, Ping Concepts.
* Worked on different ticket related issues using different ticketing system.
* Configuring and administration of Checkpoint firewall and creating access rules for network traffic.
* Understanding the JUNOS platform and worked IOS upgrade of Juniper devices.
* Enterprise routing experience using protocols such as Static, RIP, EIGRP, OSPF and BGP.
* Implemented Site-to-Site VPNs over GRE tunnel on ASA Firewall.
* Extensively worked on implementing and troubleshooting complex layer 2 technologies such as VLAN, Trunk, VTP, STP, RSTP, MST and Ether channel.
* Experience with Sourcefire Next Generation Network Security.
* Configured of IPSEC VPN tunnels for site to site & remote access connectivity.
* Implementing the Cisco wireless security solution with (WPA2, WEP) for making the wireless users secure.
* Experience with F5 load balancers - LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
* Hands on experience on network hardware and technologies including bridges, hubs, Ethernet, frame relay, wireless, etc.
* Expertise in level 3 support for Cisco LAN/WAN/WLAN infrastructure, Riverbed WAN Optimization services, and NetScaler Load Balancer's in the global footprint.
* Familiar with Cisco firewalls PIX 515, ASA 5500 series, knowledge of Juniper and Check Point Firewalls.
* Strong hands on experience in Nexus models like 7K, 5K, 2K and 9K series.
* Strong hands on Cisco router models like 7200, 3800, 3600, 2800, 2600, 2500, 1800 series and Cisco catalyst 6500, 4500, 3750, 3500, 2900 series switches.
* Experienced on different network monitoring and administrative tools like HP node manager, Cacti, Netflow, NetScout, splunk and Wireshark.
* Configured Security policies including NAT, PAT, Route-maps, Prefix/distribution list and Access Control Lists.
* Experience in monitoring and analyzing the load balancing of network traffic using Wireshark and Solar Winds.
* Well experienced in configuring gateway redundancy protocols like HSRP, GLBP, and VRRP.
* Highly motivated with the ability to work independently or as an integral part of a team and Committed to highest levels of professional
* Installed, configured and administered Palo Alto firewalls.

**TECHNICAL SKILLS :**

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| --- | --- |
| **Routers:** | * Cisco 7600, 7200, 3800, 3600, 2900, 2800, 2600, 1800, 1700 |
| **Routing:** | * OSPF, EIGRP, BGP, RIP v1/v2, PBR, Route Filtering, Redistribution, Summarization, and Static Routing. |
| **Switches:** | * Nexus 2K/5K/7K, 9K, Cisco Catalyst 2900, 3500, 3700, 6500, 4500, 3850, 3560, 3750, 2960. |
| **Switching:** | * LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing &Multi-Layer Switch, Etherchannels, Transparent Bridging. |
| **Network Security:** | * Cisco ASA 5540, ACL, IPSEC, F5 Load Balancer, Checkpoint. |
| **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. |
| **Various Features &Services:** | * IOS and Features, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP, FTP. |
| **AAA Architecture:** | * TACACS+, RADIUS, Cisco ACS. |
| **Network Management:** | * Wireshark, SNMP, Solarwinds. |

**PROFESSIONAL EXPERIENCE :**

**Cybersoft Technologies, Houston, TX Aug 2016 – Present**

***Network Engineer***

**Responsibilities:**

* Leading key network projects and actively involved in daily maintenance, network design, performance enhancement and troubleshooting on the network containing hundreds of switches, routers, firewalls, VPN switches, Wi-Fi and load balancers, which serve more than 2000 end users with 24/7 operation.
* Evaluated circuit design and performed configuration of L2/L3 VPN services over MPLS platform for leased line customers.
* Applied configuration for VRF for multiple routing instances to co-exist and work simultaneously over MPLS.
* Worked on different ticket related issues on Remedy ticketing system.
* Provided technical assistance for LAN/WAN management & troubleshooting and complex customer issues using Network monitoring tool’s such as Solar winds.
* Design, Implement & troubleshooting of Juniper switches, routers and Firewalls.
* Design and configuration of Firewall rules on Cisco Routers and SRX.
* Migration of Palo Alto firewalls from ASA.
* Configuring IPSEC VPN (Site-Site to Remote Access) on ASA firewalls.
* Manage a very large DNS environment using Lucent QIP and manual management of DNS for DMZ/External servers
* Experience with setting up MPLS Layer 3 VPN cloud in data center and also working with BGP   
  WAN towards customer.
* Identified software vulnerabilities and network vulnerabilities in customer networks, made suitable ASA firewall, ISE and IPS.
* Installed Solarwinds Network Performance Monitor with traffic analysis, application & virtualization management, configuration management.
* Configure multi-state MPLS network, providing Metro-Ethernet for VPLS (mesh), Direct Internet   
  Access, Host Voice Services (Voice over IP), Wireless and P2P Service.
* User admin on the firewalls, adding and deleting users as Admin users come and go.
* Maintained redundancy on Cisco 2600, 2800 & 3600 series router, cisco catalyst switch 6500, 4500 and Nexus 5K, Nexus 7K, Nexus 9K switch with HSRP.
* Responsible for the secure development lifecycle environment form NX-OS to Application Centric Infrastructure (ACI) in Data center, implemented in the lab environment.
* Used Cisco ACI Fabric which is based on Cisco Nexus 9000 series switches and Cisco Application Virtual Switch (AVS).
* Experience in working with Cisco Nexus 7K series switches for data center.
* Performed automation using python as a scripting language in Linux environment.
* Migration to virtual servers in F5 Load balancer as part of web.
* Configured and deployed F5 BIG IP LTM 8900 for providing application redundancy and load balancing.
* Worked on Cisco management system for troubleshooting, monitoring, configuration changes or updates and Reporting.
* Worked with installation of Palo Alto firewalls.
* Follow process & procedures for change & configuration management.
* Worked with Cisco catalyst 6500, 4500, 3750, 3560, 2960 switches and 2800, 3600, 3800, 7200, 7600 and ASR series Routers.
* Configuring VRRP & GLBP and VLAN Trunking 802.1Q, STP, Port Security on Catalyst 6500 switches.
* Responsible for Checkpoint and Cisco ASA firewall administration across global networks.
* Build various network technologies from the ground up specifically Bluecoat Web proxies
* Configuring and troubleshooting Cisco PIX, ASA, FWSM, ACE, Nexus 5K,7K,9K, and Juniper platforms in a multi-tenant infrastructure.
* Planning and implementation of OSPF protocol and internet IBGP and EBGP peering relationship with another ISP.
* Implemented device configuration changes and administration for F5 BigIP LTM/GTM.
* Configured the VoIP phones on call manager using the mac address and enabling the route list, route partitioning them.
* Involved in F5 BIG IP LTM administration, familiar with enterprise level traffic managers like 8900, 6800, 3600, 1600, 3400 series.
* Creating Virtual IP address, Pools and Persistence profiles on F5 LTMs.
* Configuring and maintain access points through CISCO 4400 WLAN controller and upgrading WAN link using PPP Multilink.
* Experience in designing and implementing IP addressing including IPv4 and IPv6.
* Enforce Security procedures such as ACLs, TACACS and RADIUS.
* Secondary Engineer to implement and troubleshoot the relocation of the United States Marshals Service Headquarters, relocating 5 locations into one building, supporting 2000+ local users for day to day operations.
* Secondary Engineer to create a new solution including new construction and installation of a full mesh wireless and wired network with a full ISE installation, Crestron, CISCO VTC and Polycom voice all integrated into the secure network topology.

***Department* of Administration, Columbia, SC Aug 2014 – July 2016**

***Network Engineer & Security Admin***

**Responsibilities:**

* Designed and installed new Branch network systems. Resolved network issues as well as prepared network documentation.
* Performed Network Operations by health monitoring using NMS, Issue and Incident resolution using ticketing system and workflow software
* Create / manage and support accounts on ACS and ISE.
* Worked on different ticket related issues on service now ticketing system.
* Router installs included Cisco 2800, 2900, 3800 and 3900 ASR1002X series. Applied configuration for MPLS network connectivity, VRF for multiple routing instances to co-exist and work simultaneously over MPLS, configured routing redistribution between EIGRP and BGP, IPsec\GRE Tunnel establishment, ISP internet connectivity.
* Deployment of Good Mobile to implement BYOD and migrate from BES.
* Implemented WLAN Aruba Wireless Access Points and its Controllers at various corporate sites fort 11n infrastructure and its legacy technologies.
* Implement & troubleshooting of Juniper switches, routers and Firewalls EX-2200, EX-4200, EX-4500, MX-480, M Series, SRX210, SRX240, SRX 3600/650.
* Coordinating with service providers for WAN link outages
* Converting access-lists to Firewall rule sets on FWSM module with 6509-E Catalyst switches
* PANDB migration and code upgrades for Palo Alto Firewalls.
* Hands on experience on configuration of Sourcefire FireAMP and NGIPS system
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls per design.
* Decided the security role of ISE on our network and formulated the security policy to enforce it
* Switching tasks include VDC, VPC, VTP, ISL/ 802.1q, VLAN, Ether Channel, LACP, STP and RSTP.
* WAN optimization utilizing Riverbed Steelhead, Cisco WAAS and Silverpeak appliances
* DNS administration like adding/modifying/deleting IP and DNS assignments using InfoBlox.
* Physically deployed new Cisco Nexus devices, Catalyst and Nexus replacement blades, FWSMs, Cisco ASAs, Citrix NetScaler MPX and SDX chassis.
* Deploy multi-factor authentication using NetScalers and RSA and DUO.
* Implement multiple Sites using NetScaler GSLB.
* Installed high availability BIG F5 LTM load balancers to provide uninterrupted service to customers.
* Configuring VIPs, Virtual Servers, I-rules, Pool members, Health monitors in F5 load balancer for LTM and GTM Environments.
* Configured SSL and persistence profiles on the F5 LTM.
* Make load balancing application delivery changes in F5 Big IP load balancers using Local Traffic Manager (LTM).
* Implement and maintain Defense Information School network security devices including Check Point and Palo Alto firewalls, Juniper IDP systems, IronPort email gateways, IronPort web proxies, and FireEye MPS.
* Having Data Center Design Experience, installing and configuring network devices in a data center including patching the cables in the Patch Panel.
* Configuring, implementing and troubleshooting A10 load balancer in the enterprise network.
* Negotiate VPN tunnels using IPsec encryption standards and also configured and implemented site-to-site VPN, Remote VPN using juniper SSG 140.
* Network analysis and capacity planning experience using tools like Sniffer, Ethereal, and Tcp dump.
* Working on Cisco 6500 and4500 switches for LAN requirements that include managing VLANs, Port Security and troubleshooting LAN issues.
* Efficient in lending support to DSL, DUN, ISP devices for all customers.
* Implemented L3 SVI’s and L2 Vlans, Inter Vlan Routing and HSRP configuration in Nexus on 7K & 9K series module.
* Perform Wireless Administration and troubleshooting for the corporate Wireless infrastructure.
* Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, STP, RSTP, port aggregation & link negotiation.

**Ernst & Young, Dallas, TX *`* Oct 2012 – July 2014**

***Network Engineer***

**Responsibilities:**

* Worked on 2600, 3500, 7613 Cisco Routers and 4500 and 6500 series Cisco Switches.
* Performed VSS on Cisco catalyst 6500 series switches.
* Configured and managed Cisco access layer routers and switches& carried out route redistribution & manipulated route updates using distribute lists, route-maps & administrative distance, and offset-lists.
* Ensure network, system and data availability and integrity through preventative maintenance and upgrade.
* Responsible for Configuring SITE\_TO\_SITE VPN on Cisco ASA 5500 series firewall between Head office and Branch office
* Implemented and troubleshooted the MPLS network.
* Configured Authorization Servers, roles, bookmarks and Network Connect (IPsec) for users to remote access to Manpower Systems
* Experience in Tier II ISP Routing Policies.
* Support customer with the configuration and maintenance of Checkpoint and ASA firewall systems
* Support Engineer in Installation of first ISE appliance.
* Installed and configured F5 load balancers and firewalls with LAN/WAN configuration.
* Configured Firewall logging, DMZs & related security policies & monitoring
* Performed migration activity from CSS to ACE using CSS2ACE conversion tool.
* Manage all network and firewall devices to include Cisco routers, switches, VPNs, SSL, Check Point, Cisco PIX, Cisco ASA, Cisco FWSM as well as content delivery networks (Cisco CSS, F5 BigIP LTM and GTM 1600 and 3400 load balancers) in enterprise environment.
* Worked on Infoblox for creating the DNS entries, a record and CNAMEs.
* Design and Deploy Citrix NetScalers, LB, and GSLB.
* Migrate from a legacy NetScaler platform into the new vpx and sdx netscalers.
* Designed NetScalers solution for load balancing, application delivery, AAA, leveraging Storefront.
* Engineered and implemented a complete complex solution using Citrix NetScaler 9.3.
* Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches, fixes, and all around technical support.
* Supporting OSPF based network by resolving level 2 problems of internal teams & external customers of all locations.
* Implementing and managing traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) network using Frame Relay and Open Shortest Path First (OSPF).
* Configuring and troubleshooting Juniper EX 4200, 4300, 9200, 2200, 4600, 3300.
* Configured various LAN switches such as Juniper Ex 4200,4500,4300,3300 switches and Access.
* Experience with devices Palo Alto Network firewalls such as security NAT, Threat prevention & URL filtering.
* Upgraded Nexus OS on Nexus7K.
* Performed scheduled Virus Checks &amp; Updates on all Servers &amp; Desktops. Worked with Red Hat.
* Enterprise Linux with virtual servers using VMware.
* Provided technical support for full setup, debugged the problems of OSPF, switching and HSRP.
* Working knowledge of Firewall service module FWSM UPGRADE, FWSM RULESET conversion.
* Router memory & IOS upgrade using TFTP.
* Experience working Juniper T-Series, M-Series, MX-Series, J-Series Routers.
* Worked on commissioning and decommissioning of the MPLS circuits for various field offices.
* Configured and debugged policy based routing for special traffic, route filtering with route maps, route redistribution.
* Implemented Site-to-Site VPNs over the internet utilizing 3DES, AES/AES-256 with PIX Firewalls.
* Configure VLAN Trunking 802.1Q, STP, and Port Security on Catalyst 6500 switches.

**Walgreens, Deerfield, IL Oct 2011 – Sept 2012**

***Network Engineer***

**Responsibilities:**

* Migration of RIP V2 to OSPF, BGP routing protocols
* Configured EIGRP for Lab Environment
* Implemented ISL and 802.1Q for communicating through VTP
* Working with Client teams to find out requirements for their Network Requirements
* Deploying the network infrastructure to meet the requirements
* Created VLAN and Inter-Vlan routing with Multilayer Switching
* Implemented and troubleshot ISIS, BGP (IPv4/IPv6/VPNv4), MPLS, OSPF, MPLS, L2/3 VPN and VRFs across the Charter core network.
* Worked in projects converting P2P circuits into MPLS circuits, commissioning and decommissioning of the MPLS circuits for branch offices.
* Documenting and Log analyzing the Cisco ASA 5500 series firewall
* Build, configure, deploy & support of Citrix NetScaler 10.1, 9.3, x - GSLB, Content filtering & Application Firewall. Managed CAG 5.0.4.x, Web Interface/Storefront support/configuration.
* Monitor 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
* Real time monitoring and network management using Cisco Works LMS
* Provided technical support on hardware and software related issues to remote production sites
* Network cabling, dressing, labelling and troubleshooting network drops onsite
* Provided desktop support including creating images specific to client requirements and deal with issues pertaining to hardware and application
* Responsibilities included configuration and installation of software and hardware
* Performed routine network maintenance checks as well as configure and manage printers, copiers, and another miscellaneous network equipment
* Handled the tasks of documenting network problems and resolutions for future reference
* Participate in on-call responsibilities in support of a seamless production environment
* Performed the installation, configuration and testing of LAN/WAN devices

**GE India Tech, INDIA Aug 2010 – Sept 2011**

***Network Administrator***

**Responsibilities:**

* Responsible for service request tickets generated by the helpdesk in all phases such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support
* Ensure Network, system and data availability and integrity through preventive maintenance and upgrade.
* Configuring STP for switching loop prevention and VLANs for data and voice along with Configuring port security for users connecting to the switches.
* Working on Network design and support, implementation related internal projects for establishing connectivity between the various field offices and data centers.
* Upgraded 4 production NetScaler appliances 11500 & 5500 FIPS from 9.3/10.1 to 10.5 build   
  • Configured URL Rewrite policy for several application & web servers load balanced on internal NetScaler VPXs.
* Working as an escalation support for various LAN Switching technologies, MPLS and Multicast on 7600 and XR platforms.
* Assist in troubleshooting senior network engineer for the network circuit upgrade from frame relay to Ethernet mpls.
* Involved in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, Inter-Vlan routing, LAN security.
* Worked on a broad range of topics such as routing and switching, dedicated voice access, planning and implementation, large-scale high-visibility outages, change management coordination, proactive monitoring and maintenance, disaster recovery exercises, and core network repairs.
* Network Cabling, dressing, labeling and troubleshooting various network drops onsite.
* Update and maintain access lists on Firewalls and Routers using change control process using tools like Remedy and Magic.
* Install and configure Cisco 4500, 6500 series switches for redundancy at intermediately level for LAN & WAN networks.
* Implement dynamic routing with EIGRP for LAN and BGP for MAN and WAN networks.
* Install and configure Cisco 3750 series switches for redundancy at distribution layer.
* Implement and manage VTP &VLANs and Gateway redundancy protocol like HSRP
* Upgraded Cisco 7200, 3600 Router IOS Software, backup Routers and Catalyst 3560, 4500 switch configurations
* Involved in troubleshooting of DNS, DHCP and other IP conflict problems
* Involved in all technical aspects of LAN and WAN projects including, short and long-term planning, implementation, project management and operations support as required
* Scheduled Virus Checks & Updates on all Servers & Desktops.
* Troubleshoot and fix any backup and monitoring systems related issues in conjunction with Systems team and external vendors
* Maintained all servers & network equipment with current stable firmware, IOS images & access control lists.
* Hands on Experience working with security issue like applying ACL’s, configuring NAT and VPN.

**Academics**

* Bachelors of Engineering in Civil Engineering.