

Network Engineer Network Engineer Network Engineer - Spirent Overall 6 years of experience in the field of Routing, Switching, firewall technologies and troubleshooting of complex network systems. Expertise in designing, installing, configuring and maintenance of Enterprise Networks using Cisco Routers, Catalyst Switches and Load Balancers, Cisco Firewalls. Strong hands on experience in installing, configuring, and troubleshooting of Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches, Cisco 7600, 7200, 3800, 3600, 2800, 2600, 2500 and 1800 series Routers. Experience working with Nexus 7010, 5020, 2148, 2248 devices. Expertise experience in implementing and troubleshooting VLANs, VTP, STP, RSTP, DTP, Root Guard, BPDU Guard, Port Fast, Uplink Fast, Backbone Fast, Ether Channel, PAGP, LACP and 802.1Q. Planning, Designing & Implementing VPN connections using Checkpoint, ASA and Cisco Routers using site-to-site VPN's. Strong hands on experience in installing, configuring, and troubleshooting of Cisco 7600, 7200, 3800, 3600, 2800, 2600, 2500 and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches. Advanced knowledge of OSI model, TCP/IP, Internet technologies, system security, firewall infrastructure, network architecture and Cisco network routing / switching (Layer 2 and 3) experience, including LAN and WAN, design and implementation. Experience with Troubleshooting tools for example protocol analyzers, load generators & network traces. Working knowledge of MPLS services, OSPF, BGP and EIGRP routing protocols, NAT, sub-netting, also including DNS, WINS, LDAP, DHCP, http, HTML, HTTPS, TCP/IP, UDP, SNMP, OSPF, RIP, IPSEC, PPTP, VLAN, STP (Spanning tree Protocol), RSTP & Multicasting protocols. Designing, Implementing and Troubleshooting Cisco 3750, 3550, 3560, 2924, 6509-V-E, 6513, 6504, 6503, 6506, 6500 series switches. Experience in working in chassis-based Routing/switching products. Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for a datacenter access architecture Expertise in installing, configuring and troubleshooting Juniper EX Switches (EX2200, EX2500, EX3200, EX4200, EX4500, EX8200 series. Enterprise Routing experience using protocols RIP v1 & 2, EIGRP, OSPF and BGP. Experience with installing, configuring Juniper Routers (E, J, M and T-series) Experience with design and implementation of Virtual Switching

System (VSS) Implemented 3750 Stackable switches using Cisco Stack Wise technology.

Experience to review and evaluate current and future design issues as required maintaining network integrity and efficient data. Extensive Experience in WAN Technologies, Switching Technologies along with Failover Mechanisms & Inter Vlan Routing types. Well Experienced in configuring protocols HSRP, GLBP, VRRP, ICMP, IGMP, PPP, HDLC, PAP, CHAP, and SNMP. Design and configuring of OSPF, BGP on Juniper Routers and SRX Firewalls. Extensive experience in configuring and troubleshooting of routing protocols RIP v1/v2, EIGRP, OSPF, IS-IS, BGP and MPLS. Experience with F5 load balancers LTM, GTM series like 6400, 6800, 8800 for the corporate applications. Experience in installing and configuring DNS, DHCP server. Moderate knowledge in configuring and troubleshooting Cisco Wireless Networks: LWAPP, WLC, WCS, Standalone APs, Roaming, Wireless Security Basics, IEEE 802.11 a/b/g, RF spectrum characteristics. Proficiency in handling Network Monitoring tools and Packet capture tools. Efficient use of Microsoft VISIO/Office for technical documentation and presentation tools. Excellent analytical, organizational, problem solving & resolution skills.

Work Experience Network Engineer Spirent - Frederick, MD November 2017 to Present Responsibilities: Working on Cisco 6509 and 4507 series switches for LAN requirements that include managing VLANs, Port Security and troubleshooting LAN issues. Configured and Resolved various OSPF issues in an OSPF multi area environment. Implemented, configured BGP WAN routing, converting OSPF routes to BGP. (OSPF in local routing) Installed, configured Cisco Catalyst switches 6500, 3750 & 3550 series and configured routing protocol OSPF, EIGRP, BGP with Access Control lists implemented as per Network design. Packet capturing, troubleshooting on Network problems with Wireshark, identified and fixed problems. Implemented, configured, and troubleshooting various routing protocols like RIP, EIGRP, OSPF, BGP etc. Performed Network monitoring, provided analysis using various tools like Wireshark, Solar winds etc. Configuring, implementing and troubleshooting VLAN's, VTP, STP, Trunking, Ether channels. Designed, implemented LAN/WAN configurations on Cisco 5K, catalyst 6500 switches. Perform Firewall Policy provisioning on Checkpoint using Smart Center, PAN devices using PANAROMA Management Platform and CSM for Cisco ASA's.

Experienced working in Datacenter environment, configuration changes as per the needs of company. Implemented and managed traffic engineering on top of an existing Multiprotocol Label Switching (MPLS) Network using Frame Relay and Open Shortest Path First (OSPF) Configuration and troubleshooting of Cisco Nexus switches 7K, 5K, 3K, 2K switches. Designed 10 gigabit networks using Cisco Nexus 7K series switches, and Cisco 3K series routers. Configuring and installation of Cisco 2500, 3640, 7200, and 7940 Routers. Configured IPX/SPX, HDLC, PPP, TCP/IP, BGP, EIGRP, RIP, & HSRP. Configured routing protocol BGP and troubleshooting layer3 issues. Provide configuration, installation, and troubleshooting of WiFi hotspots for clients in multiple verticals including cafes, retail locations, travel centers. Configured TCP/IP addressing scheme to assigned IP blocks. Coordinated with LAN/WAN engineers the development and implements security policy. Part of a team working in L2/L3 Switching Technology Administration including creating and managing VLANs, Port security, Trunking, STP, Inter-VLAN routing, LAN security. Troubleshooting Layer 2 issues, Spanning Tree protocol, RSTP, MST, VTP, VLAN on Cisco - 6500 series switches and Juniper EX 4200 switches. Deploying Layer 2 security in Server Farms by configuring switch for 802.1x port-based authentication. Prepared documentation for various VLANs and Voice sub networks and worked on Visio for the same. Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, STP, RSTP, port aggregation & link negotiation. Involved in the redistribution into OSPF on the core ASA firewall. 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. Supporting EIGRP and BGP network by resolving level 2 & 3 problems of internal teams & external customers of all locations. Installed and configured DNS and DHCP server. Troubleshoot DHCP and other IP conflict problems. Defined policies, NAT and anti-spoofing for internal, external networks as well as Internet gateways. Configuring remote users to access corporate LAN with VPN connectivity. Configured and installed new IP addresses for new users by using IP Addressing and Subnetting Scheme. Interfaced with various vendors for company product. Configured Frame-Relay, ISDN, ATM, Protocols, & load balancing switches.

Configuring Virtual Device Context in Nexus 7010. Network Engineer Parallel Wireless - Nashua, NH August 2015 to October 2017 Responsibilities: Deploying and decommissioning the VLANs on core ASR 9K, Nexus 7K, 5K, 3k and its downstream devices. Tuned BGP internal and external peers with manipulation of attributes such as metric, origin and local Preference. Cisco Secure Access Control Server (ACS) for Windows to authenticate users that connects to a VPN 3000 Concentrator. Scripting experience with Pearl. Configuring, Installing and troubleshooting on Check Point Devices. Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5500/PIX security appliance, Failover DMZ zoning & configuring VLANs/routing/NATing with the firewalls as per the design. Deployed the Nexus 7000/5000/2000 architecture into production securing competitive advantage across multiple verticals. Performed routine monitoring of Checkpoint firewall from security perspective and troubleshooting the connectivity issues. Good knowledge on Intrusion Detection and Intrusion Prevention System. Support of VMWare, Cisco, Juniper, and F5 Big-IP appliances as well as SDN technologies to include configuration updates, software testing, and life-cycle refresh. Policy Building using IDP. Worked on FTP, HTTP, DNS, DHCP servers in windows server-client environment with resource allocation to desired Virtual LANs of network. Experience with Cisco Catalyst 6500 and 6800 series core switches. Providing network Support in the designing and implementation of P2P over T1s Frame Relay, IP over Frame Relay. Configuring and troubleshooting routing issues related to protocols like RIP, OSPF, and BGP. Managing and Working with IPSEC tunnels, LAN to LAN VPN implementations. Worked on 3750 and 3850 access switches. Implementing Firewall policies on Cisco ASA5500. Working with F5 BIG-IP LTM 3900, configured profiles and ensured high availability. Responsible for managing and configuring Layer 2 and layer 3 devices for customer's network. Configuring and troubleshooting QOS, VLAN, Spanning Tree, VTP and HSRP. Making configuration change recommendation for routers, switches, and firewalls. Configuring routing protocols OSPF, EIGRP, RIP. Coordinated with a team to remove EIGRP from all devices and making OSPF the primary routing protocol. Managing and working with VPNs within the organization and to third-party entities. Attending the managerial and Technical meetings to discuss the current progress of the

project. Creating a detailed design drawing of the sites, which are under up-gradation and getting it validated from the technical design team. Implemented, Monitoring, Troubleshooting and Convergence in Frame-Mode MPLS inside the core. Worked with senior network engineers for multiple site upgrades comprising of data and VOIP equipment's also in re-configuring the new devices, as well as making sure projects are done under defined timelines. Installed wide range of network equipment. Configured Layer2 and Layer3 equipment. Building and configuring the network as per requirement of Clients and Company. Network Administrator Alethea - Bengaluru, Karnataka September 2012 to December 2014 Responsibilities: Responsible for implementing, engineering & level 2 support of existing network technologies / services & integration of new network technologies / services. Building large scale network environment using routing protocols like OSPF, EIGRP, and BGP. Configuring route redistribution between EIGRP and OSPF. Involved in network Designing, Routing, DNS, IP Subnetting, TCP/IP protocol. Performing Route Filtering and Route Manipulation by applying distribute-lists, route-maps & offset lists. Diagnose MPLS protocol problems including VRF and COS issues to full resolution. Providing Layer-3 redundancy by implementing HSRP in the network. Hands-on experience in implementation and troubleshooting of BGP version 4, OSPF, IPV4 and Ethernet Protocols. Managing various VLANs, IP addressing for various subnets, VLAN Trunking between various access-switches. Performance fine tuning and maintaining customer network devices to provide high availability for the applications, proper bandwidth utilization and to avoid network congestion. Configuring Standard and Extended Access Control Lists (ACLs) and Firewalls. Designing and Implementing VPN and remote access support. Pro-active Monitoring and Alerting of client's network for any alarms. Testing and validating new solutions in lab before deploying them to customers. Installed Hard disks, Floppy drives, CD Drives, Sound Blaster cards, CPU, Memory, Power supply unit, network card, Video graphics card, Hard disk controller card on PC systems. Created scripts to monitor CPU/Memory on various low-end routers in the network. Troubleshooting of personal computers and on-line Support to customers concerning their computer problems. Installed and configured Cisco routers 2500, 2600, 2800, 3600 series and Cisco catalyst switches 2900, 2950, 3500, 4500

series. Involved in troubleshooting of DNS, DHCP and other IP conflict problems. Responsible for reporting day to day operations of all associated hubs, routers, bridges, gateways and related equipment. Design, manage and troubleshoot RIP, OSPF routing environment comprised of multiple areas. Working knowledge of frame relay, MPLS services, OSPF, BGP and EIGRP routing protocols. 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. Worked on Layer 2 protocols such as STP, VTP and other VLAN troubleshooting issues and configuring switches from scratch and deployment. Provided Load Balancing towards access layer from core layer using F5 network Load Balancers. Monitoring the network, troubleshooting network problems, implementing changes, communicating and working closely with vendors, customers, system administrators. Plans, coordinates, implements and supports the LAN / WAN hardware, software and Internet /Intranet integration network connectivity, diagnose network failures and resolve any problems. Additional Information Education Bachelor's in Information Technology JNTU - Hyderabad, Telangana 2012 Skills BGP (6 years), CATALYST (6 years), CISCO (6 years), DHCP (6 years), EIGRP (6 years) Additional Information Technical Skills: Routers: Cisco 2620, 2901, 3925, 3945E, 7201, 7613 Switches: Nexus 7018, 5600, 2232, 5596, 7009, Cisco Catalyst 2232, 2960, 3560, 4507R+E, 5596, 6509-E, 7009, Routing: OSPF, EIGRP, BGP, RIP, PBR, Route Filtering, Redistribution, Summarization, Static routing Switching: LAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels. Microsoft Server [ ] R2, Microsoft Windows, Linux (Kali, Ubuntu), OS X, Cisco IOS, Vyatta. network Security: Cisco ASA 5540, ACL, IPSEC Load Balancer: F5 Networks (Big-IP) LTM 6400, 1600 LAN: Ethernet, Fast Ethernet, Gigabit Ethernet. WAN: PPP, HDLC, Channelized links (E1/T1/E3/T3), Fiber Optic Circuits, Frame Relay Gateway HSRP, VRRP, GLBP, Various Features IOS and Features, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, TFTP, FTP.

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