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**Professional Summary**

* Network engineering professional with 10+ years of experience in network design, implementation, troubleshooting and management of large-scale enterprise networks.
* Extensive work experience with Cisco Routers, Cisco Switches, Load Balancers and Firewalls.
* Experience working with 2600, 2900, 3600, 3800,3900, 7200, 7600 series Cisco Routers.
* Proficient in configuring Cisco Catalyst 2900,2960, 3560, 3750, 4500, 4900, 6500 series and Nexus 2248, 5548 and 7010 switches.
* Strong hands-on experience in installing, troubleshooting, configuring of Cisco 7200, 3800, 3600, 3400, 2800, 2600, 2500, 1900, 1941, 1921 and 1800 series Routers, Cisco Catalyst 6800, 6807, 6500, 4500, 3750, 2950, 2960 and 3500XL series switches.
* Hands-on experience in configuring data center infrastructure with Cisco Nexus 5K and 7K series switches (5548, 7010) and Cisco Nexus Fabric Extenders (2232, 2248).
* Expert in configuring 802.1d STP and 802.1w rapid-spanning tree protocol (RSTP), Cisco per VLAN spanning Tree (PVST+) / Multiple Spanning-tree 802.1s, VLAN & Dynamic Trucking Protocol (VTP/ DTP) and 802.1x port-security on access layer switches.
* Implementation traffic filters on Cisco routes using Standard, extended Access list and expert level knowledge about TCP/IP and OSI models.
* 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.
* Implemented Quality of Service throughout the network infrastructure and was responsible for policy routing.
* Expert in configuration of Virtual Local Area Networks VLANS using Cisco routers and multi-layer Switches and supporting STP, RSTP, PVST, RPVST along with trouble shooting of inter VLAN routing and VLAN trunking using 802.1q.
* Expertise in configuration of routing protocols and deployment of OSPF, EIGRP, BGP and policy routing over Cisco routers.
* Expertise in CCNA, CCNA Security, CCNA Voice, CCNA Wireless, CCNA Service Provider and also experience in CCNP & CCNP Security.
* Thorough understanding of VPN technologies like IPsec, GRE tunneling, MPLS for remote access security.
* Experience deploying BIG-IP F5LTM Load Balancers for load balancing and traffic management of business application.
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
* Expert in Data Center Technologies such as vPC, VDC, VSS, STP, Foe, OTV Fabric Path.
* Supporting EIGRP and BGP based PwC network by resolving level 2-3 problems of internal teams’ external customers of all locations.
* Implemented redundancy with HSRP, VRRP, GLBP, Ether channel technology LACP, PAGP etc.
* Development of feature test/interoperability test plans with Cisco MDS feature Fiber Channel, FCIP, FCOE.
* Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, Route Maps and route manipulation using Offset-list.
* Managed inventory of all network hardware. Management and monitoring by use of SSH, Syslog, SNMP, NTP, NMTP.
* Knowledge in implementing and configuring F5 Big-IP LTM-6400 load balancers.
* Network security skills include Telnet, SDM, NAT/PAT, ACLs, AAA, ASA, FWSM, PIX firewall.
* Worked on T1/E1/T3 technologies and different LAN WAN/WLAN technologies.
* Configuring BGP/OSPF routing policies and designs, worked on implementation strategies for the expansion of the MPLS VPN networks.
* Experience in designing MPLS VPN and QoS for architecture using Cisco multi-layer switches.
* Expertise in maintenance of layer2 switching tasks which advocate VLAN, VTP, STP, RSTP, PVST, RPVST, configuring of ether channel with LACP and PAGP along with troubleshooting of inter-VLAN routing.

**Certification**

● **Cisco Certified Network Associate (CCNA)**

● **Cisco Certified Network Professional (CCNP)**

**Technical Skills**

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| **Routers** | Cisco routers 1700, 1800, 2500, 2600, 2800, 2900, 3200, 3600, 3700, 3800, 4000, 7600, Juniper Routers like, M320 and MX80. |
| **Cisco Switches** | Layer 2 2900 series, Layer 3 3560, 3750, 4500, 6500, Avaya switches, juniper switches like EX2200, EX2500. |
| **Network Management Tools** | Cisco Network Pulse, Net Volant, HP Service Desk, Service Now, HP Network Automation, IP Plan, CMDB, LMDB, IP Angry Scan, NMTP, IDS IPS, ACL, NetFlow Analyzer, Smoke Ping, CS-MARS. |
| **VPN** | Checkpoint NGX R60, NG AI R55, VPN1 pro, Secure Remote/Client, License management, Cisco works 2000 Network/ Security Services: DNS, DHCP, WINS. |
| **Protocols/ Services** | Routing Protocols RIP v1 v2, IGRP, EIGRP, OSPF, BGP, TCP/IP, PPP, HDLC, Frame Relay, ATM, MPLS,DOCSIS,PON,CMTS. |
| **Operating Systems** | Windows XP/2000/20003/NT/7, UNIX, OSX. |
| **Reports** | Microsoft Visio Pro. |
| **Firewall Security** | Checkpoint, Cisco ASA, Juniper SRX. |
| **Scripting Automation** | Python and Perl. |

**Professional Experience**

**Client**: **Cisco Systems - Chicago, IL**. **May 2022 to Present**

**Role: Sr. Network Engineer**.

**Responsibilities**

* Extensive worked on creating the Change Requests CRQ's, Work Orders, Incident Management.
* Implementing, configuring, and troubleshooting various routing protocols like RIP, EIGRP, OSPF, and BGP.
* Contributed to the continual improvement of ServiceNow functionalities, collaborating with developers to create custom applications and enhancements to better align with evolving network requirements and industry best practices.
* Developed and delivered training programs for end-users and IT staff, educating them on Wi-Fi best practices, troubleshooting techniques, and security protocols to maximize network efficiency and minimize downtime.
* Spearheaded DWDM network upgrades and technology refresh initiatives, evaluating emerging technologies and vendor solutions to improve network performance, reliability, and cost-effectiveness.
* In-Depth Knowledge and experience of various wireless 802.11 standards, controllers, Access Points, Wi-Fi analytics from various vendors (Cisco Meraki, HPE / Aruba, D-Link and Net gear), SD-WAN (MX 65, MX100, MX400).
* Configured and optimized Cisco Umbrella policies and rulesets, leveraging threat intelligence to proactively identify and mitigate potential risks, resulting in a reduction of security incidents by [percentage or number].
* Understand customer requirements for wireless networks and explain how Cisco Meraki will integrate with current infrastructure, as well as service future needs.
* Orchestrated and managed Cisco APIC controllers, steering network policies and configurations across diverse environments, ensuring centralized control and scalability in complex infrastructures.
* Collaborated with cross-functional teams to integrate third-party applications and services into the Cisco ACI framework, fostering interoperability and expanding the platform's capabilities.
* Performing network monitoring, providing analysis using various tools like Wireshark, SolarWinds, Solaris etc.
* Deploy Wi-Fi services responsible for teh Design, Installation, Testing, Implementation and Maintenance of teh Wireless Network wif Cisco Identity Service Engine or Aruba Clear Pass
* Conducted regular audits and assessments of Infoblox IPAM configurations, ensuring alignment with security best practices, and implemented enhancements to bolster network security and compliance.
* Configured ACLs in Cisco 5540 ASA firewall for Internet Access requests for servers, Protocol Handling, Object Grouping and NAT/PAT, ISE, NAC.
* Configured ASA 5540 to ensure high-end security on the network with ACLs and Firewall.
* Configured and deployed BIG-IP LTM 8900 for providing application redundancy and load balancing.
* Implemented Quality of Service QOS, Policy Maps, Class-maps, Policy Routing in the network infrastructure throughout all the different sites.
* Designed and implemented SD-WAN solutions, resulting in a 50% reduction in network downtime and a 25% increase in network speed.
* Designed, implemented, and managed Cisco ACI solutions for data center networks, orchestrating policies and reducing complexities, resulting in improved network agility and streamlined operations.
* Maintained and optimized WAN and LAN infrastructure across MPLS networks, resulting in a 15% increase in network reliability.
* Qualified CCNA and CCNP, with experience working across MPLS infrastructure.
* Qualified CCNA and CCDP, with technical knowledge of Fortinet FortiGate, Cisco ASAs, and Juniper SRXs.
* Contributed to the development of documentation and training materials to educate teams on the utilization of Cisco Umbrella, empowering them to leverage its features effectively and adhere to security best practices.
* Troubleshooting Wi-Fi issues related connectivity, coverage and authentication issues.
* Played responsible role for implementing, engineering, level 2 support of existing network technologies / services integration of new network technologies / services.
* Worked with Cisco Layer 3 switches 3560, 3750, 4500, 6500 Cisco Nexus 5000 and 7000 in multi VLAN environment with the use of inter-VLAN routing, 802.1Q trunk, and ether channel.
* Key contributions include troubleshooting of complex LAN /WAN/WLAN infrastructure that include routing protocols EIGRP, OSPF, BGP, RIPv2 HSRP.
* Performed route filtering and route manipulation by applying distribute-lists, route-maps offset lists respectively.
* Tested various BGP attributes like local preference, MED, Weight and replicated customer issues in the testing environment lab.
* Designed WAN structure to prevent single point of failure in case of link failure.
* Configured PVSTP for loop prevention and VTP for Inter-VLAN Routing.
* Configured maintained IPSEC Site-to-Site VPN.
* Configuring, implementing and troubleshooting VLAN's, VTP, STP, trucking, Ether channels.
* Involved in design, implementation and configuration of HSRP for load balancing on L3 switches on different location of office on the switched network.
* Developed and implemented migration strategies from traditional networking to Cisco ACI, orchestrating seamless transitions while minimizing disruptions and ensuring continuity of business operations.
* Worked on change management documentation of Network infrastructure design using Microsoft Visio.
* Perform setup of test scenarios, both hardware and software components, and perform troubleshooting.
* Experience working in Datacenter environment, configuration changes as per the needs of company.
* Managed Plan of Record with PLMs/SE/Sales/Marketing and Interlock with Juniper's strategic customers, monitoring product lines of Juniper routing/switching/security portfolio MX, PTX, EX, SRX.
* Deploying and decommission of VLANs on core ASR 9K, Nexus 7K, 5K and its downstream devices.
* Experience configuring Virtual Device Context in Nexus 7k series switch.
* Convert Branch WAN links from TDM circuits to MPLS and to convert encryption from IPsec/GRE to Get VPN.
* Collaborated with cross-functional teams to troubleshoot and resolve complex Wi-Fi issues, utilizing tools like Wireshark and spectrum analyzers to diagnose and rectify connectivity challenges efficiently.
* Collaborated with cross-functional teams to integrate Infoblox IPAM solutions into cloud environments, facilitating seamless IP address management and DNS provisioning for hybrid and multi-cloud architectures.
* Continually upgraded Meraki security devices as all store locations and kept current firmware, verified Meraki was upgraded, both circuits were functioning through the Meraki and wireless clients were using the Meraki appliances.
* Implemented and configured various Lucent dense-wave-division multiplexing products as well as high speed Ethernet over SONET multiplexors including the Wave star 400G, 800G, 1.6T.
* Worked in data center to manage tickets, apply diagnostic methods to troubleshoot data center equipment. Pulled required inventory as defined by inventory process. Updated inventory systems as required.
* Executed comprehensive performance assessments and conducted regular audits of DWDM networks to ensure adherence to quality standards, troubleshooting issues, and implementing solutions for seamless data transmission across diverse wavelengths.
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 and Redware for the corporate applications and their availability.
* Collaborated cross-functionally to customize ServiceNow workflows and automation scripts, optimizing ticket handling and resolution for network-related issues, leading to a 25% increase in efficiency within the network operations center.
* Collaborated with cross-functional teams to troubleshoot complex Aruba Wireless network issues, ensuring swift resolution and minimal disruption to operations, while maintaining high service levels.
* Provided mentorship and training to junior team members on Cisco ACI architecture, best practices, and operational procedures, contributing to skill development and team proficiency.
* Administered the Linux, Windows, OpenStack, NetScaler, and Big IP F5 devices that make up the company's multi-tiered service architecture.

**Environment**: BMC Remedy, Cisco ASA 5540, BIG-IP LTM 8900, QOS, Policy-maps, Class-maps, Nexus, VLANS, STP, RSTP, PVSTP, VTP, HSRP, EtherChannel, Ethernet over TDM, Ethernet over SONET, IPsec/GRE, Get VPN, BGP, OSPF, EIGRP, RIP, RIPv2 MPLS, ATM, PPP, HDLC. SNMP, TACACS, DNS, ISE, NAC, DHCP, Radius, Basics of WLA, Nexus 2K, 5K, 7K, NMTP, FM, PM.

**Client**: **Comcast - Mount Laurel, NJ**. **Oct 2019 – Apr 2022**

**Role**: **Sr. Network Engineer**.

**Responsibilities**

* Responsible for entire LAN and WAN/WLAN maintenance and troubleshooting of the company network. Involved in the Team of Data Center Operations to perform duties like administration and deployment of Cisco Routers and Switches according to the organization requirements.
* Experience in configuration of new VLANs and extension of existing VLANs on/to the necessary equipment to have connectivity between two different data centers.
* Worked closely with Data center management to analyze the data center sites for cabling requirements of various network equipment.
* Hands-on experience in managing Wi-Fi networks - WLC, AP configuration, AP to LAN Switch connectivity.
* Designed and implemented ServiceNow CMDB (Configuration Management Database), ensuring accurate documentation and visibility of network assets, dependencies, and configurations, enhancing decision-making for network changes and upgrades.
* Provided comprehensive technical support and guidance to internal stakeholders, offering expertise in troubleshooting and resolving issues related to Cisco Umbrella functionality, thereby ensuring uninterrupted network services.
* Developed and executed disaster recovery plans specific to DWDM networks, mitigating risks and ensuring continuity of operations in the event of network failures or disruptions.
* Conducted comprehensive site surveys and RF analysis to identify and mitigate Wi-Fi interference, optimizing signal strength and minimizing dead zones for enhanced connectivity.
* Provided comprehensive documentation, guidelines, and training sessions to empower staff and end-users on Aruba Wireless configurations, troubleshooting techniques, and best practices, fostering self-sufficiency and efficient utilization of resources.
* Designed, deployed, and maintained Cisco ACI (Application Centric Infrastructure) utilizing Cisco APIC controllers, optimizing network performance and enhancing agility through policy-driven automation.
* Performed network administration tasks such as creation and management of VLANS, Port security, Trunking, RPVST, Inter-VLAN routing, and LAN security.
* Configured Hyper-V LAN which decouples virtual networks from the physical network infrastructure, removing the constraints of VLAN and hierarchical IP address assignment from virtual machine provisioning.
* Automated IP address assignments and DNS updates using Infoblox IPAM APIs, reducing manual workload by implementing scripting and integration with existing network tools, resulting in increased operational efficiency.
* Worked with ASA Firewall configuration and Participated in Migration of PIX to ASA for hardware devices.
* Using AirMagnet software to perform RF Site surveys for indoor and outdoor networks using data, voice and video. Including RF sweeps, spectrum analysis, packet statistics, creating heat maps, and troubleshooting Wi-Fi client issues.
* Knowledge of various advanced technologies like VoIP, SIP, QoS, IPv6, Multicasting, MPLS, SD-WAN, Cisco ISE, RADIUS, TACACS+, Trustsec
* In-Depth Knowledge and experience of various wireless 802.11 standards, controllers, Access Points, Wi-Fi analytics from various vendors (Cisco Meraki, HPE / Aruba wireless, D-Link and Net gear), SD-WAN (MX 65, MX100, MX400).
* Designed, implemented, and maintained enterprise-grade Wi-Fi networks, ensuring optimal coverage, performance, and security across diverse environments and user densities.
* Configured FWSM on cisco 7600 router to reduce costs and operational complexity while enabling organization to manage multiple firewalls from the same management platform.
* Configured ASA 5520/5500to ensure high-end security on the network with ACLs and Firewall.
* Worked with Cisco Catalyst 4500, 4900 switches and Cisco 2800, 3600, 3800, 7200 7600 series Routers.
* Installed Cisco WAAS device 4451-X for acceleration of TCP-based applications, and Cisco's Wide Area File Services WAFS in a single appliance and to preserve and strengthening branch security.
* Worked with Routing Protocols of EIGRP and BGP.
* Involved in Network Designing, Routing, DNS, IP Subnetting, TCP/IP protocol.
* Worked on commissioning and decommissioning of the MPLS circuits for various field offices POPs.
* GRE tunneling Site-to Site VPN configuration between other two sites in USA.
* Implemented redundancy for Routers, Switches and Firewalls.
* Manage Cisco Routers and troubleshoot layer1, layer2 and layer3 technologies for customer escalations.
* Creating automated scripts using Python language and also manual testing to enhance hardware performance.
* Drove enhanced network speed and efficiency at Comcast by proficiently implementing and optimizing Passive Optical Network (PON) technologies, ensuring uninterrupted connectivity
* Implemented robust security measures within the Aruba Wireless infrastructure, leveraging role-based access controls (RBAC), WPA2/WPA3, and other authentication protocols to safeguard network integrity and data confidentiality.
* Experience with WAN connectivity, MPLS circuits, leased Lines, Metro Ethernet, Site to Site IPSec tunnels, ISP circuits, and Customer Edge configurations. Experience with SD-WAN solutions that include Viptella and Versa.
* Provided technical expertise and guidance in Cisco APIC controller functionalities, offering mentorship and training to teams for proficient utilization and effective management of ACI deployments.
* IP Allocation Maintenance for users and other needs throughout company.
* Configured and managed OSPF redistribution and authentication with type 3 LSA filtering and to prevent LSA flooding and also configured OSPF over frame relay networks for NBMA and point to multipoint strategies.
* Designing, configuring, implementing and troubleshooting LAN VLAN's, VTP, Spanning Tree STP, Trucking dot1q and ISL and Ether channel.
* Configuring and implementing F5 BIG-IP, LTM, GTM load balancers to maintain global and local traffic.
* Implementing and troubleshooting on-call IPsec VPNs for various business lines and making sure everything is in place.
* Implementation and configuration of F5 Big-IP LTM-6400 load balancers.
* Worked in projects converting P2P circuits into MPLS circuits, commissioning and decommissioning of the MPLS circuits for branch offices.
* Implemented, configured BGP WAN routing, converting OSPF routes to BGP OSPF in local routing.
* Member of a team in planning, design, capacity management, and budget approvals for switching, Ethernet over SONET, Ethernet over DWDM, fiber network including spur closures, and other infrastructures.
* Assisted in EPL, EVPL, ELINE And ELAN design and provisioning based on MPLS LDP, RSVP and TLDP.
* Managed multi-domain/multi-platform networks comprised of 33 multi-platform server Solaris 11, Windows Server 2003, 2008, and 75 Windows-based clients XP, 7.
* Experience with convert Checkpoint VPN rules over to the Cisco ACI solution. Migration with Cisco ASA VPN experience.
* Developed the solutions approach SA, network management technical plan NMTP, and network validation test NMVT documents. Coordinated with development, test, and operations organizations resulting in a robust non-service impacting upgrade. Led the network management validation testing to ensure NM functionalities.
* Proficiency in Cisco ASAs, ISRs, Catalyst/Nexus, HP Switches, Cisco Meraki, Aruba wireless, EIGRP, OSPF, and BGP.
* Provided technical expertise and guidance, contributing to the documentation and training programs for team members, enhancing their understanding of DWDM technologies and protocols.
* Deployment and configuration of Infoblox IPAM, streamlining IP address allocation, DNS, and DHCP management across complex network infrastructures for optimal resource utilization and efficiency.
* Cisco ASA/Checkpoint 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.

**Environment**: Cisco ASA 5520, 5505, BIG-IP LTM 6400, Nexus, STP, RSTP, VTP, HSRP, Port-Channel, Ethernet over SONET, Ethernet over DWDM BGP, OSPF, EIGRP, PPP, HDLC. SNMP, DNS, DHCP, Hyper-V Networking, Checkpoint, RIP, Nexus 2K, 5K, 7K.s, EPL, EVPL, ELAN, NMTP, NMVT.

**Client**: **NTT Data - Plano, TX**. **Feb 2017 – Sep 2019**

**Role**: **Sr. Network Engineer**.

**Responsibilities**

* Support complex 6500 /5500 series switches.
* Support various series of Cisco routers like 7200/7600 series.
* Configured UDLD, port-fast, uplink fast and other spanning tree features.
* Deployed the switches in high availability configuration with HSRP.
* Follow process procedures for change configuration management using NMTP.
* WAN Infrastructure running OSPF as a core routing protocol.
* In-depth expertise in the implementation of analysis, optimization, troubleshooting and documentation of LAN/WAN/WLAN networking systems.
* Assist the certification team and perform configuration of LAN WAN technologies such as Ethernet, Fast Ethernet, and Gigabit Ethernet.
* Provides the technical interface to Tier III resources for complex matters requiring deep technical expertise. Strong knowledge of MPLS, Ethernet over TDM, VoIP, technologies as well as routing protocols BGP and EIRGP.
* Planning and configuring the entire IP addressing plan for the clients’ network.
* Troubleshooting IOS related bugs based on past history and appropriate release notes.
* Creating applying different types of access-lists for these effects to take place.
* Performed route redistribution manipulated route updates using distribute lists, route-maps administrative distance.
* Provided support for troubleshooting and resolving Customer reported issues.
* Technical assistance for LAN/WAN/WLAN management and complex customer issues.
* Troubleshooting issues and outages on Trunks and Router interfaces extensively.
* Planning and Implementation of Subnetting, VLSM to conserve IP addresses.
* Maintenance and troubleshooting of connectivity problems using Ping, Trace route.
* Recommended Security considerations for the Intranet data center, integrating security, providing solution design details and configuration details.
* Support Network Technicians as they require training support for problem resolution including performing diagnostics, configuring network devices.
* Configured and managed Cisco access layer routers and switches.
* Key contributions include troubleshooting of complex LAN /WAN/WLAN infrastructure that includes routing protocols EIGRP.
* Responsible for implementing, engineering, level 2 support of existing network technologies / services integration of new network technologies / services.
* Extensive experience in configuring and implementing EIGRP, OSPF and BGP.
* Supported core network consisting of Cisco 7200 series routers running multi area OSPF.
* Responsible for service request tickets generated by the helpdesk such as troubleshooting, maintenance, upgrades, patches and fixes with all around technical support.
* Supporting EIGRP and BGP for problems of L2/L3 in internal teams’ external customers.
* Experience in installation, configuration and administration of application Sun Solaris on Window OS System.
* Configured and troubleshot Nexus 7k, 5k. Upgrade Cisco Routers, Switches and Firewall PIX IOS using TFTP.
* Created change records and implemented and was On-Call for production network.
* Demand Generation tool and summarized very complex information in a useful format. Produced timely and high-quality deliverables, as result established credibility internally including multiple MDs and multiple clients.
* Support wide range technologies - Catalyst switches, Nexus switches, UCS, MDS, ACE/CSS/CSM, SCE.
* Troubleshooting network connectivity between branch office and regional office with multiple link paths and routers running HSRP, EIGRP in unequal cost load balancing.
* Creating NAT/PAT used ACLs to block unauthorized users to the VLAN IP and allowing the IPsec traffic.

**Environment**: Switching, Routing, Nexus, Access-lists, Subnetting, STP, RSTP, VTP, HSRP, Port-Channel, EIGRP, RIP, PPP, HDLC. SNMP, DNS, DHCP, RIP, OSPF, BGP, EIGRP, Radius Nexus 2K, 5K, 7K.

**Client**: **Publicis sapient - Chicago, IL**. **Aug 2013 – Jan 2017**

**Role**: **Jr. Network Engineer**.

**Responsibilities**

* Configuration of Access List ACL Std., Ext, named to allow users all over the company to access different applications and blocking others.
* Configuring of IP Allocation and sub netting for all applications and servers and other needs throughout company using FLSM, VLSM addressing.
* Configured RIP and EIGRP on 2600, 2900 and 3600 series Cisco routers.
* IOS upgrades on Catalyst 1900, 2900, 3500 series switches and 2500, 2600, 3600 series routers.
* Implemented VTP and trunking protocols 802.1q and ISL on 3560, 3750 and 4500 series Cisco Catalyst switches
* Performed on-call support for installation and troubleshooting of the configuration issues.
* Worked on installation, maintenance, and troubleshooting of LAN/WAN ISDN, Frame relay, NAT/PAT, DHCP, TCP/IP, Radius.
* Configured STP for loop prevention and VTP for Inter-VLAN Routing.
* Configured Cisco IOS Feature Set, NAT/PAT and Simple Network Management Protocol SNMP and Network Management Technical Plans NMTP for Network Security implementation.
* Racking, stacking, and cabling network-based, IT systems.
* Responsible for Data Backup, System Update, Recovery and Restore, and Spyware removal.
* Performed maintenance and troubleshooting of connectivity problems using PING, and Trace route.
* Provided Network and Security Architecture and Operations support services for Windows 2008 based web, application and database servers.
* Provided Technical support for improvement, upgradation, and expansion of the existing network architecture.
* Done troubleshooting of TCP/IP problems and connectivity issues in multi-protocol Ethernet environment.
* Developed test scripts using Python and assorted proprietary software tools.
* Worked on FCOE protocol to encapsulate the Fibre Channel frames over Ethernet networks.
* Configuring and troubleshooting multi-customer ISP network environment.
* Involved in network monitoring, alarm notification and acknowledgement.
* Install and/or Migrate Checkpoint Security Hardware systems while upgrading to the latest Checkpoint Security Software version.
* Assisting Junior and Senior Engineers, on-site management of cable-wiring technicians.
* Utilized SolarWinds tools to proactively troubleshoot Client issues.
* Managing and maintaining Solaris. Troubleshoot and resolve technical uses issues.
* Implementing new/changing existing data networks for various projects as per the requirement.
* Troubleshooting complex networks layer 1, 2 frame relay, ATM, Point to Point, ISDN to layer 3 routing with MPLS, BGP, EIGRP, OSPF and RIP protocols technical issues.

**Environment**: RIP, EIGRP, TCP/IP, FCOE, MPLS, BGP, ACL, VTP, VLAN, Checkpoint.