**Sr. Network Engineer**

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**PROFESSIONAL SUMMARY:**

* Cisco Certified Network Engineer with 9years of experience with routing, switching and Data centre environment.
* CCNP network engineer with extensive experience in various technologies such as switching (STP, Ether Channel, VDC, VPC, FHRP, LLDP, CDP, SPAN, LACP), routing (EIGRP, BGP, OSPF, VRF, PBR, IS-IS, redistribution, route-maps, etc.), deployment, IOS upgrading, etc. on both Catalyst and Nexus platforms.
* Excellent Hands on experience with Cisco ISE and the Migration of Wireless and TACACs to ISE.
* Experience in working with Cisco Nexus Switches and Virtual Port Channel configuration.
* Expertise in installing, configuring, and troubleshooting of Cisco Routers (7200, 3800, 3600, 2800, 2600, 1800, 1700, 800).
* Design and configuring of OSPF, BGP on Juniper Routers (MX960, MX480) and SRX Firewalls (SRX240, SRX550).
* Configuring and testing Verizon ARC BA850 Cradle Point as the turnkey networking solution for 4G/LTE failover.
* Worked on Load BalancerF5 LTM, GTM series like 6400, 6800, and 8800.
* Strong knowledge of TACACS+, RADIUS implementation in Access Control Network.
* Firewall technologies including general configuration, risk analysis, security policy, rules creation and modification of Checkpoint R65, R70, R77, Cisco ASA and Palo Alto Networks Firewall models (PA-2k, PA-3k, PA-5k etc.) as well as a centralized management system (Panorama) to manage large scale Firewall deployments.
* Experience on dealing with VoIP information deployment including troubleshooting protocols like Session Initiation Protocol (SIP), Real-Time Transport Protocol (RTP), Media Gateway Routing Protocol (MGRP) and Session Description Protocol (SDP).
* Advanced knowledge in Cisco ASA 5500 series and PIX installation, configuration and maintenance, configuration and installation of IOS security features and IPS, security risk analysis, attack mitigation & penetration tests based on LPT methodology.
* Experienced in handling and installing Palo Alto Firewalls.
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP, Ether channel, STP, RSTP and MST. Implementation of HSRP, VRRP for Default Gateway Redundancy.
* Experience working with Nexus 7K, 5K and 2K and experience using Qualcomm tools like QXDM, QPST, QMICM, QCAT
* Experience in Bluecoat Proxy servers, LAN & WAN management.
* Worked on Juniper Net Screen Firewalls like, NS50, SSG 550M, SSG520M, ISG 1000, and ISG 200.
* In-depth knowledge and experience in WAN technologies including OC3, E3/T3, E1/T1, Point to Point, MPLS and Frame Relay
* Experience in Configuring and implementing VLAN, VTP domains, LAN switching and STP/RSTP, QOS on multicast VPN and Wide area application services.
* Knowledge of Juniper environment including SRX/Junos Space.
* Maintaining and updating inventory of all network hardware, Management and Monitoring by use of SSH, Syslog, SNMP, NTP. Implementation of HA-JSRP in JUNOS devices, SRX Series Router/Firewall in both A/A and A/P mod.
* Experience in Cisco: Physical cabling, IP addressing, Wide Area Network configurations (Frame-relay & MPLS), Routing protocol configurations (CIDRIP, RIP, EIGRP, OSPF, and BGP)
* Knowledge of implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP and MST.
* Strong hands on experience in installing, troubleshooting, configuring of Cisco ASR, 7200, 3900, 3800, and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches.
* Extensive hand on experience with complex routed LAN networks, Cisco PIXASA Firewalls, Juniper SRX series, Palo Alto, VPN, Troubleshooting Skills, Log Analysis and Review, Compliance Audit.
* Worked on blue coat proxy server as part of recent integration into the project
* Pleasant experience with Security Incident and Event Management (SIEM), Intrusion Detection and Prevention Systems (IDS/IPS) and log management and database activity monitoring.

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| **TECHNICAL SKILLS** |

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| Networking | OSI, TCP/IP, Cisco IOS, IOS-XR, LAN/WAN interconnection, Frame-Relay, ISDN, RIP, OSPF, EIGRP, IS-IS, BGP, MPLS, STP, RSTP, MST, VTP, NAT, ACLs, VPN, IP-Sec |
| Hardware Routers | CISCO (1800/2600/3600/3800/7200/7600 series), Cisco ASR 9Ks) |
| Switches | CISCO (2900/3500/3700/5500/6500 Series, Nexus 7k) |
| Firewalls | Cisco ASA (5510,5540), Checkpoint R65, R70, R75, R77 Gaia, Juniper SSG, SRX, Palo Alto |
| Other Tools | Tufin Secure Track, ForeScout CounterACT, F5 Big IP (LTM/GTM/ASM), DNS, Bluecoat Proxy, Solar Wind, Wireshark, BMC Remedy, Citrix NetScaler, Cisco Prime, VM Ware |
| Operating Systems | Win 95/98, NT, XP, VISTA, LINUX, UNIX |

**PROFESSIONAL EXPERIENCE:**

**Client: HERTZ, FL December 2016 - Present**

**Role: Sr. Network Engineer**

**Responsibilities:**

* Works with client engineering groups to create, document, implement, validate and manage policies, procedures and standards that ensure confidentiality, availability, integrity and privacy of information.
* Performed site refreshes on Cisco switching and Aruba wireless infrastructure at several locations. Configurations, implementation and troubleshooting issues on Checkpoint R77.10 Gaia, R75, Cisco ASA 5540, 5000 series firewalls for the client environment.
* Reviewed logs and reports of all security tools including Firewall, Routers, Switches, SIEM, ePO Servers, NAC, IPS. Upgraded existing switching and IPS systems to Cisco ASA and HP ProCurve switches.
* Worked closely with developers to find defect causes and verify defect fixes to ensure product reliability and quality. Performed customer scenario tests, measured CPU and memory usage by DDos feature enabled, reported results and analysis for development team.
* Performed Wireless Network surveys using Air Magnet software and reviewed existing network infrastructure. Performed field work on project involving installing and configuring Cisco 1142, 1131, 2602 I and E Access points, Installing and modifying configurations of Cisco 3500, 3700 series PoE switches, and conducted Air Magnet surveys to validate successful placement and operation of Access Points.
* Provide Level 3 Support for converged infrastructure (Vblock 740s/540s - VMWARE vSphere 5.5, Cisco UCS, Nexus 5Ks, Cisco MDS, EMC XtremIO/VMAX3s) and non-vBlock Storage - VNX2, ECS (cloud), Isilon (FILE), Pure Storage, HP3Par.
* Involved in Upgrading Bluecoat Proxy servers from SG900-10s to SG9000-20B.
* Provided design and Contrail SDN/NFV networking support using Cisco ACI, Cisco wireless controllers, Open-Stack, Juniper Contrail and Big Switch Networks LABs using Apple Configurator. Provided (ODL) Open daylight, Docker Swarm container support using LINUX and Heat Orchestration and controlling network flows for Automation update using Docker, Ansible Playbooks Yang model and NETCONF devOps tools.
* Extensive working knowledge of routing protocols including MPLS, BGP, QOS and Cisco ASA/VPN Tunnel as backup connectivity solution between remote locations and installing new equipment to RADIUS and worked with MPLS-VPN with configurations. Repaired broken workstations, notebooks & servers. Handled warranty issues &RMA requests.
* Configured routers and switches including but not limited to IP Subnetting, VTP, VLAN, DHCP, DNS, NAT, BGP, EIGRP, OSPF, static routing, QoS, ACL, VPN, IPSec Tunneling, STP and VRRP to support UcaaS services provided by the company.
* Environment Includes NetApp SAN for VMWARE, and VFN.
* Worked on configuration of F5 devices with Netapp.
* Executing RADIUS pre-deployment tasks like ISE setup, loading templates into Cisco Prime.
* Upgraded Wireless controllers (8540 to latest code 8.2.130.0).
* Knowledge of 802.11 protocol both at the physical and MAC layer. Familiar with wireless network security features 802.11i (WEP, WPA/WPA2, WPA/WPA2-PSK and WPA/WPA2-Enterprise) & Authentication protocols like EAP, PEAP, 802.1x.
* User account creation, maintenance and de-activation in a multi- domain forest (Azure AD)
* Office 365 account administration.
* Strong experience in Office 365 Deployment.
* Worked closely with the Office 365 migration team during large client migrations to assist and provide support.
* Setup and maintained Microsoft Office 365 (SharePoint Online, Exchange Online)
* Performed wireless troubleshooting as needed
* To monitor, track and report changes for all firewalls, routers and switches in the organization by using the Tufin secure track.
* Involved in creating the Azure Services with Azure Virtual Machine.
* Designing and implement multi-forest connectivity to Azure Active Directory.
* Configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP, DNS settings, and security policies.
* Provide technical, programming, and operational support to multiple solutions, including the OSIsoft PI Systems.
* Manage project task to migrate from Cisco ASA firewalls to Check Point firewalls. Deploying of Cisco ISE on Nexus 5000/7000 routers, Cisco switches, and Cisco ASA and Firepower firewalls.
* Worked in virtualizing four of the Mercer call centers utilizing Cisco UCCE VoIP for contact solution thereby creating a failover protocol within four call centers for overflow and disaster situations.
* Configured and maintained IPSEC and SSL VPN's on Palo Alto, Cisco ASA Firewalls. Also responsible for administering and troubleshooting the Checkpoint, Palo Alto and ASA firewall.
* Configured IPSec VPN (Site-Site to Remote Access) on Cisco ASA (5200) series firewalls. Working with the rule base and its configuration in Cisco ASA, Palo Alto, Juniper (RMA) and Checkpoint firewalls.
* Worked on Nexus models like 7K, 5K, 2K series, Cisco router models like 7200, 3800, 3600,2800, 2600, 2500, 1800 series and Cisco catalyst 6500, 4500, 3750, 3500, 2900 series switches.
* Managing Firewall products - Checkpoint Appliance 2200 Gateways, Provider-1 and VSX environment. (R77.10 and 77.20) and ASA environments. Responsible for Check Point and Cisco ASA and Cisco UCCE firewall administration across global networks.
* Advanced knowledge of OSI model, TCP/IP, Internet technologies, system security, firewall infrastructure and cisco network routing / switching (Layer 2 & 3) experience.
* Customer Experience (CX) program implementing, governing and obtaining Voice of the Customer VIA Design Thinking methodology, customer journey mapping and utilizing SDLC practices.
* Hands-on experience on Tufin Secure Track to reduce risk while increasing compliance and efficiency.
* Designed and implemented a POC of Cisco ISE vs Aruba ClearPass NAC solution for the corporate network wired.
* Responsible for configuring, supporting, and troubleshooting L2 / L3 (EIGRP, OSPF, BGP) adjacency and reachability issues by capturing, and analyzing of frames, packets using Wireshark, nmap, and Cisco's built in debugging utilities.
* Rapid firewall security assessments through Python automation
* Successful Data Center Migration Planning and Successfully developed Python automation scripts to perform Cisco firewall rule assessments.
* Administer, troubleshoot and configure iPad, iPhone, Microsoft Surface Pro’s,Android phones and tablets via DEP, Apple Configurator, the Air watch and Cisco Miraki administration console
* Completed configuration, implementation and turn up of Cisco ASR 5000, Nexus 7010, Cisco 7609, Cisco 3945 terminal servers, DS3 OAM port. Deployed 4G/LTE Spirent iTest execution utilizing TightVNC application server connection for automation and development test. Completed intrusive and non-intrusive test cases of ASR, DNS, IPS, MSP/VOLTE, and SDG/VOLTE and analyzed/validated test result.
* Experience in test tools: IXIA Explorer, IXIA/Spirent Network, iPerf, and Virtualization in SDN.
* Experience with Juniper SRX 240 Firewalls, QFX, MX, EX SERIES.
* Audited Cisco internal sales office network equipment, software, LAN, WAN and voice configurations.
* Design and Install UCP Select for VMWare vSphere with Cisco UCS and Cisco Unified Fabric Switching. Experience in creating multiple policies and pushing them into Checkpoint Firewall (Gateways) and hands-on experience in managing the Checkpoint Management Server and Gaia operating system.
* Support Citrix NetScaler F5 platform, configuring, implementing, & troubleshooting Citrix NetScaler VIP configuration with health check, policy configurations Access Gateway. Configuration of F5 GTM solutions, which includes Wide IP, Pool Load Balancing Methods, probers and monitors.
* Physically deployed new Cisco Nexus devices, Catalyst and Nexus replacement blades, FWSMs, Cisco ASAs, Citrix NetScaler MPX and SDX chassis. Verify Firewall status with Checkpoint Monitor. Creation and implementation of Application delivery architectures which includes load balancing on F5 BIG IP modules.
* Worked with F5 Load balancing, IDS/IPS, Bluecoat proxy servers and Administrating.
* Involved in F5 LTM GTM and ASM planning, designing and implementation. Development of network design standards for conversion of a Cisco Metro E platform to Ciena Z series SDN network toachieve OpEx cost reductions and network standardization.
* Applying downloadable ACLs through Cisco ISE and Configuring Standard and Extended ACLs locally and on the upstream switches for Cisco ACS.
* Evaluates and consults with senior management regarding DOCSIS Solutions & Services to ensure an excellent  
  Customer experience.
* Develop and Coordinate with system field staff all CMTS operation and changes of CMTS & DOCSIS devices to  
  Ensure unparalleled customer service and experience.

**Environment:** Cisco ASA5580/5540/5520, Aruba Wireless, CheckpointR70, R75, R77.20 Gaia, Palo AltoPA-5000/3000, Juniper SSG, SRX, RMA,CAN,SD-WAN, Big IP F5 LTM/GTM, SPE, Python, JNCIA, Nexus switches, Routers, TCP/IP, VPN, Bluecoat Proxy servers, IDS/IPS. SIEM and monitoring, Netscalar,BMC Remedy, Cisco Prime, ForescoutCounterACT, Tufin.

**Client: HEALTHCARE SERVICE CORPORATION, IL May 2014 – September2016**

**Role: Sr. Network Engineer**

**Responsibilities**:

* Implementing Security Solutions using PaloAltoPA-5000/3000, Cisco 5580/5540/5520, Checkpoint firewalls R70, R75, R77.20Gaia and Provider-1/MDM.
* Configuration and administration of firewalls, which includes Checkpoint, Juniper and Cisco ASA firewalls and maintained rule sets in the firewalls and updated them on the daily basis.
* Knowledge of Cisco ASA firewall, VPN, GRE over IPSec tunnel configuration and Route-maps, configuring and troubleshooting layer 3 routing protocols (EIGRP, OSPF, RIP, BGP) and High Availability on Cisco devices.
* Create and validate SMOPS for upgrade, replace, add and remove Cisco VOD equipment.
* Work with Load Balancing to build connectivity to production & disaster recovery servers through Citrix NetScaler.
* Vulnerability security patching using IBM Endpoint Manager, SCCM & WSUS.
* Configuring High Availability using Cluster XL on Checkpoint as well as VRRP and monitor the Sync status for state full replication of traffic between active and standby member.
* 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.
* Researched, designed and replaced Checkpoint firewall architecture with new next generation Palo Alto PA3000 and PA5000 appliances serving as firewalls and URL and application inspection.
* Handling Modern related issue like that of RAD & Aruba.
* Responsible for the deployment and associated tasks for the implementation of theTanium Endpoint Security and Systems Management product.
* Configuring rules and maintaining Palo Alto Firewalls& Analysis of firewall logs using Panorama.
* Successfully installed Palo Alto PA-3000/PA-5000 firewalls to protect Data Center and provided L3 support for routers/switches/firewalls.
* Configured and maintained IPSEC and SSL VPN's on Palo Alto Firewalls and also implemented Zone-Based Firewall and Security Rules on the Palo Alto Firewall.
* Configuration and Maintenance of Cisco ASA 5580-20, ASA 5540, ASA 5520, ASA 5510 series firewalls.
* Hands on Experience with Cisco Wireless Controllers 5500's and 2500's and coming to access points, worked on 3700's, 3500's and 1142 access points.
* Configured and installed Cisco routers 2500, 2600, 3601 and 4000 series. 2950 Switches & Link sys wireless access points.
* Configuring and install hardware and software required to conduct network penetration testing.
* Provided tier 3 support for Checkpoint and Cisco ASA Firewalls to support customers, Backup and restore of Checkpoint and Cisco ASA Firewall policies.
* Manage project task to migrate from Cisco ASA firewalls to Check Point firewalls.
* Configuring and troubleshooting site-to-site IPSEC VPN tunnels using Cisco ASA 5540 for third-party connectivity.
* Installed and configured a variety of Cisco devices like Cisco Routers (1841, 1900, 2600, 2800, 3800, ASRs and more), Cisco switches (3560, 3750, 4507 catalysts, 6500 catalyst Switch and more) and Nexus 7000 series, Nexus 5000 series, Nexus 2K Fabric Extenders and F5 appliances.
* Understanding of Layer2/3 VPN's, MPLS, Metro Ethernet and LAN switching.
* Creating object, groups, updating access-lists on Check Point Firewall, apply static, hide NAT using smart dashboard.
* Recovery service vault for azure Virtual Machines Backup and Site recovery planning for Disaster recovery.
* Azure Availability and Scalability - Configured VMs availability sets using Azure portal to provide resiliency for IaaS based solution and scale sets using Azure Resource Manager to manage network traffic.
* Installed and configured high availability Big IP F5 LTM and GTM load balancers like 6600, 6800 to provide uninterrupted service to customer applications and monitoring the availability.
* Configuring F5 Load Balancers: Adding virtual IPs, nodes, pools and health monitoring.
* F5 Big IP iRule programming and troubleshooting.
* Worked on F5 solutions/support for migration work of applications and websites from Cisco CSS Load Balancers to the F5 BigIP Load Balancers.
* Configure and Monitor Cisco Sourcefire IPS for alerts.
* Working with different teams to gather info for the new request and troubleshoot for any connectivity issues by capturing traffic using TCPDUMP and smart view tracker.
* Worked on VPN configuration, routing, NAT, access-list, security contextsand failover in ASA firewalls.
* Provide support to help desk for complex/major network problems. Build the rules for the application access across the IPSEC VPN tunnel
* Used Python scripting to change NAT rules with deploying Palo Alto firewall
* Implemented configuration back-ups using WinSCP, cyberfusion to automate the back-up systems with the help of public and private keys.
* Deployment and Management of Bluecoat proxies in forward proxy scenario as well as for security in reverse proxy scenario.
* Worked on Blue Coat Proxy SG to safeguard web applications in extremely untrusted environments such as guest Wi-Fi zones.
* Performing URL filtering and content filtering by adding URL’s in Bluecoat Proxy SG’s.
* Working on the network team to re-route BGP routes during maintenance and FW upgrades.
* Running vulnerability scan reports using Nessus tool.
* Use of Citrix NetScaler for the application delivery control.
* Configure B2B VPN with various business partners and 3rd parties and troubleshoot VPN Phase 1 and Phase 2 connectivity issues including crypto map, encryption domain, psk etc.
* Provided administration and support on Bluecoat Proxy for content filtering and internet access to primary, remote site offices and VPN client users
* Follow information security policies, methods, standards, NIST standards and practices to organize information systems, IT reference material and interpret regulations.
* Monitor Intrusion Detection Systems (IDS) console for active alerts and determine priority of response.
* Experience with converting Cisco 6500 IOS to Cisco Nexus NX-OS in the data center environment.
* Working on day-to-day service tickets to solve troubleshooting issues.
* Experience using Service Now ticketing tool.

**Environment**: Cisco ASA5580/5540/5520, CheckpointR70, R75, R77.20 Gaia, Palo AltoPA-5000/3000, Big IP F5 LTM/GTM, Nexus switches, TCP/IP, VPN, Bluecoat Proxy servers, IDS/IPS. SIEM and Monitoring, Service Now.

**Client: GE Transportation, Erie, PA August 2012 – March 2014**

**Role: Network Engineer**

**Responsibilities:**

* Engaged on designing and perform the configuration of a Cisco Identity Services Engine (ISE)Server to migrate of services from Cisco Secure Access Control System (ACS) version 4.2(used forWireless Client Access), Cisco Secure ACS Agent, Cisco Network Admission Control(NAC) Guest server version 2.0.3 and Cisco Secure ACS version 5.5.0.46 (Used for Terminal Access Controller Access Control System (TACACS+) to Network Devices) to the new Cisco ISE server.
* Performed support, configuration, testing and documentation for ISE rollout for CenterPoint Energy which includes making configuration changes in access and distribution layer switches, wireless controllers and ISE nodes.
* Experience building VPC's for specific environment, and subnetting for private or public needs.
* Created and managed an encrypted S3 Bucket for all CloudTrail logs and adjusted bucket policy for each accounts CloudTrail to access.
* Deploy 3 Cisco SNS 3495 ISE appliances.
* Modify pilot ISE environment for production scaling and performance.
* Provide ISE deployment services for migration of users from Cisco NAC to Cisco ISE platform for the following locations.
* Used the ISE Endpoint Analysis Tool (ISEEAT) to analyse data and design new ISE Profiling Policies.
* Performed evaluation and analysis of the environment for NSX deployment, including NSX manager, Distributed Firewall, Distributed Logical Router.
* Implemented 8x8 VOIP solutions on site and run network diagnostics test and network assessment test and DOCSIS.
* Configured and tested Verizon ARC BA850 Cradle Point as the turnkey networking solution for 4G/LTE failover.
* Experience QFX 5100, SRX 1500, 5400, MX 480, EX 4300 Series Routers and Switches, Aruba wireless 7200 series and more.
* Test 7750 for bandwidth, packet loss, Jitter, latency using network diagnostic tools, QSCOPE before the site is being integrated to LTE.
* Consisted of ISE Deployment, Authentication with Active Directory and Microsoft CertificateAuthority.
* Designed and Configured Cisco Identity Services Engine (ISE v2.3) to support corporate

connectivity to a new wireless environment utilizing Active Directory Authentication.

* Authorization with EAP-TLS client certificates.
* Based on interviews conducted with the client, Implemented and documented a custom fullyredundant and Highly Available WLAN environment utilizing Cisco 5508 Wireless LANControllers, Cisco 3315 ISE Appliances, and Cisco 3500 series Access-Points.
* Implemented and supported Cisco Identity Services Engine (ISE) with the Cisco ASA 5500 series for VPN connectivity.
* Designed, built, and deployed F5 Big IP load balancers, F5 Big IP LTM/GTM Global and Local Traffic Manager, F5 DNS Domain Name Services.
* Provide migration support and oversight resources for NAC to ISE roll-out at 80 Client branch locations in the United States and the Center Point Tower.
* Experience in working with ISE and Microsoft Access database.
* Technical responsibilities include troubleshoot Cisco endpoint VoIP IP Phones, CUCM Cisco Unified Communications Manager, Cisco WebEx Connect, Cisco AnyConnect, Cisco ARC, ISI, Meetingplace.
* Provide VOD Method of Procedures documentation to customer for software upgrade downgrade release. Built Cisco Device Profiles using CUCM. This includes being part of the team whom rolled out Cisco VOIP phones when transitioned.
* Identifying endpoints missing from ISE and determine reason for omission.
* In addition, any deficiencies noted in the guest wireless network during this work documented and recommendations for improvements made in written.
* Configured the ISE software and provide staff with the necessary configuration changesneeded on the network equipment to facilitate the migration of existing services to the new Cisco ISE server and created the repository for the backup and upgrades.
* Worked on assessment and the finalization of the detailed designs and provided a design document for the Implementation of Cisco ISE and the Migration of Wireless and TACACs to ISE.
* Ensuring the Cisco ISE server is correctly installed, and licenses are applied.
* Reviewed vendor system reference documents and creating Operations Proceduresdocumentation for network staff training.
* Provided engineering support by creating installation approach and cutover/turn-up procedures for validating the system is operating as designed.
* Performed Migration of Cisco catalyst switches IOS configuration to Juniper MX routers JUNOS platform and understand the JUNOS platform and worked with IOS upgrade of Juniper device.
* Created monthly status reports, on a monthly and as-needed basis, reflecting the overall project Condition, work accomplishments, man-hour expenditures, close out of phase (Close-out and Acceptance Report), future activities, and any identified risk elements.
* Participated in a kick-off meeting with the Communications Branch personnel to review and affirm goals, objectives, current design, and schedule for the Cisco ISE Deployment and Migration.
* Contractor will make recommendations if modifications for improvements should be included in the design.
* Provided engineering support and technical assistance by ensuring the Cisco ISE server is correctly installed and licenses are applied.

**Environment**: Checkpoint, Nexus, Cisco 3500, 1400, 1500, 5400, ASA firewall -- ASA5545, ASA5585-SSP-20, firewall PIX-525, VPN concentrator -- Cisco 3060, check point firewall -- r77, F5 Local Traffic Managers (LTM) 5000, 7000 series, (ISE) 2.3, VLANs, STP, DNS/DHCP issues, Palo Alto firewalls, Cradle Point, FortiGate TACACs, BGP,MPLS, Firewall analyser, Wireless LAN, service desk, Cisco ISE, Cisco Prime, JUNOS.

**Client: 4 S Telecom Private Limited, Bengaluru, India July 2010 – May 2012**

**Role: Network Engineer/ Admin**

**Responsibilities**:

* Firewall Policy Provisioning and troubleshoot connectivity issues through firewall.
* Performed penetration testing internally for our clients.
* I worked on Check Point Security Gateways and Cisco ASA Firewall.
* Firewall Clustering and High Availability Services using Cluster XL on Check Point.
* Configuring and tweaking Core XL and Secure XL acceleration on Check Point gateways.
* Troubleshoot User connectivity issues on Checkpoint and Cisco ASA using CLI utilities.
* Packet capture on firewalls and analyzing the traffic using Wire shark utilities.
* Troubleshot Clustering issues on Check Point and Sync issues monitoring and fix.
* Upgrade of Checkpoint Gateways in Cluster with Minimal downtime.
* Implemented Active/ Standby HA configuration on Cisco ASA Firewalls.
* Configure and install switches, create network IP ranges, VLANs and network  
  security.
* Configuring Cisco ASA firewalls in Single and Multiple Context Mode firewalls.
* Upgrade of Cisco ASA Firewall in Active/Standby mode with no down time.
* Configuring VPN both B2B and remote access SSL and centralized policy administration using Fort Manager, building FortiGATE High Availability using FortiGATE Clustering Protocol (FGCP).
* Firewall Compliance and Rule remediation for compliance such as SAS 70 Audit.
* LAN/WAN level 3 support (diagnose and troubleshoot layer 1, 2, 3 problems).
* Working with OSPF as internal routing protocol and BGP as exterior gateway routing protocol.
* Configuring static NAT, dynamic NAT, Inside Global Address Overloading, TCP overload distribution, Overlapping Address Translation on Cisco ASA Firewalls.
* Implemented VLANS between different departments and connected them using trunk by keeping one VLAN under server mode and rest falling under client modes.
* Configured Firewall logging, DMZs and related security policies and monitoring.
* Switching related tasks included implementing VLANS and configuring ISL trunk on Fast-Ethernet channel between switches.
* Basic knowledge of Multi-Protocol Label Switching (MPLS), Voice over IP (VoIP), Firewall PIX, Cisco Call Manager and routing protocol BGP.
* Documentation and Project Management along with drawing network diagrams using MSVISIO.

**Environment**: CISCO routers and switches, Access Control Server, RIP V2, OSPF, EIGRP, VLAN, Trunk Protocols, CISCO ASA, DHCP, DNS, Spanning tree, Nimsoft.