

Network Security specialist Network Security specialist Network Security specialist - NCDIT North Caroline Department of Information Technology Raleigh, NC Work Experience Network Security specialist NCDIT North Caroline Department of Information Technology - Raleigh, NC August 2018

to Present Responsibilities: Installation, configuration and maintenance of Cisco ASA firewalls.

Responsible for managing and maintaining Data-center, DR and network Infrastructure. Respond to outages, user problems by triaging and troubleshooting, plan for Device & OS upgrades. Work within established configuration and change management policies to ensure awareness, approval and success of changes made to the network infrastructure. Configured ASA-5506, 5516, 5525 and 5545 to meet organizational requirements and industry best practices Involved in migration from Site-to-site GRE tunnels network to MPLS-based VPN for customer's WAN infrastructure.

Installed, configured and set security policies on cisco firewalls, VPN Experience handling tickets with less or no supervision in troubleshooting Cisco ASA Performed basic security audit of perimeter routers, identifying missing ACL's, writing and applying ACL's Network security including NAT/PAT, ACL and Cisco ASA firewall. Configured and Maintained over Cisco 500 ASA Firewall's throughout several sites. Troubleshooting issues related to VLAN, VLAN- Trunking, and STP.

Configuring static Nat, dynamic Nat and Nat pooling. As a part of new site implementation configure Cisco devices with different routing protocol like BGP, OSPF, EIGRP based upon client requirement and as per company standards Deploying and decommission of VLANs on Cisco ASA firewalls by stake holders request. Upgraded the I.O.S over Cisco 5506, 5516,

5514,5525,5545,5585 ASA Firewall's throughout several sites in NC State. Maintaining the inventory of the state security devices UpToDate Environment:

Cisco2948/3560/4500/3560/3750/3550/3500/2960, 6500, Cisco 3640/12000 7200, Cisco ASA 5506, 5516, 5525, 5545, 5585, 5514, Juniper (EX2300 EX3400) Nexus 2K/7K/5K, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP, F5 Load Balancers, Qrader, NetFlow, ASDM, NetAuto, HPNA. Sr. Network Engineer Barclays Bank - Wilmington, DE

December 2016 to June 2018 Responsibilities: Responsible for managing and maintaining Data-center, DR and network Infrastructure. Respond to outages, user problems by triaging and

troubleshooting, plan for Device & OS upgrades. Have implemented OSPF within the four areas I administer. Setup Data-center and DR in area 0 and other regions in different areas. Worked with PAN migration tool to migrate from to Palo-Alto. Initially started with Like to like migration and then manually configured policies like used id, app id, URL filtering etc. to take complete advantages of PAN devices. Work within established configuration and change management policies to ensure awareness, approval and success of changes made to the network infrastructure. Communicated with Command Center Management to provide frequent status updates regarding change related technical issues and provide accurate status updates on the change remediation efforts. Configured PA-5020, and PA-5050 to meet organizational requirements and industry best practices.

Worked on Panorama to manage multiple Palo Alto firewalls from one central location. Constantly ensured Software Upgrades and Content Updates are up to date on those devices. Worked on configuration of Anti-Virus, Spyware, Wildfire, APP-ID, USER-ID, and Global Protect on Palo-Alto devices. Also enabled Security Policy, URL filtering, Threat Prevention etc. Implemented VDC, VPC, VSS, VRF and OTV on the Nexus 5505, 6500 and 7009 switches. Deployed Fabric Extender (FEX) 2248 for access layer. Made changes to data center environment, setup Nexus 7k and 5k hardware in a VPC topology Administered Cisco catalyst (6500, 4500), Nexus (2k, 5k, 7k), and Juniper (EX2300 EX3400) switches, enabled all L2 critical configurations like 802.1Q encapsulation, Port channels, VTP, VLAN, inter VLAN routing, etc. Deploying and decommission of VLANs on core ASR 9K, Nexus 9K, 7K, 5K and its downstream devices and configure 2k, 3k, 7k series Routers. Gained abilities to take preemptive measures to mitigate DDoS attacks on Cisco and Palo alto Firewalls. Expertise on configuring and maintaining SSL VPN's on Palo alto and Cisco ASA firewalls Involved in migration from Site-to-site GRE tunnels network to MPLS-based VPN for customer's WAN infrastructure. Took initiative to block traffic from rouge nations, also worked in blocking traffic from malicious sites as per the Information Security Systems guidelines using bluecoat proxies. Completely administered and maintained F5 Big-IP (LTM and GTM) and Brocade Load balancers. Worked with Quality of service traffic. Involved in QoS issues related to Policing, Shaping and queuing towards access and distribution level L2 and L3 devices.

Configured Cisco 6500, 4500 & 3750 Catalyst Switches for Network access. Worked on configuring BGP, OSPF, EIGRP protocols on Cisco (7200, 3800), Juniper (MX240, MX280) series Routers, also enabled HSRP and VRRP protocols for redundancy. Assisted in setting up new 510 and 810 Blue Coat Proxy SG units, performed one to many proxy migrations. Worked with Aruba 7200, 3600, series wireless controllers, Airwave Wireless Network Management System and ClearPass servers. Setup ClearPass policy manager and ClearPass guest access manager to authenticate wireless users. Deployed Change Management Community of Practice and Change knowledge sharing into project plans. Set-up Tufin clusters in virtual environment, worked on monitoring tools like, SolarWinds & Splunk and Sniffing tools like WireShark. Worked with Infoblox IPAM and SolarWinds IPAM for IP address management. Environment: Cisco 2948/3560/4500/3560/3750/3550/3500/2960, 6500, Cisco 3640/12000 7200/3845/3600/2800/3800 routers, Aruba 7200, 3600, PA-5020, PA-5050, Fortinet Firewall, Juniper (EX2300 EX3400) Nexus 2K/7K/5K, Cisco ASA 500, Checkpoint, windows server 2003/2008: F5 BIGIP LTM, RIP, OSPF, BGP, EIGRP, LAN, WAN, VPN, HSRP, F5 Load Balancers, Checkpoint, NetFlow, Gigamon. Network Engineer Caterpillar - East Peoria, IL February 2016 to November 2016 Responsibilities: Maintain and track the status of device supplied to the client. Installation & Maintenance of Juniper switches, routers & firewalls. Implementing and maintaining WAN/LAN and WLAN networks in different diagrams. Designed Security policies on Palo Alto Network firewall for controlling what traffic needs to be allowed or blocked based on customer requirements. Analyzed the Policy rules, monitor logs and documented the Network /Traffic flow Diagram of the Palo Alto Firewalls placed in the Data Center with MS Visio. Provided daily Palo Alto Firewalls administration such as Threat prevention, URL filtering, IPSEC and SSL VPN's, zone-based integration, and analyzing syslog's, and utilizing wild fire feature in Panorama. Experience with working on Palo Alto Next-Generation firewalls Security profiles. Provided Load Balancing towards Access layer from Core layer using F5 Network Load balancers. Implemented various EX, SRX & J Series Juniper devices. Identified opportunities for implementation of Network best practices, particularly F5 load balancer implementations. Utilized Aruba's Airwave server to

manage and monitor the Network for issues. Involved in migration of F5 Local Traffic managers of LTM 5100 series to LTM 6800 series for higher. Design and integration of Juniper SSG series firewalls, SA VPN Appliances, J series Routers and EX series switches. Implementing and configuring F5 Big-IP LTM-6400 load balancers. Created and resolved Checkpoint, Palo Alto Customer orders and request orders. Configured ASA 5520 firewall to support Cisco VPN client on Windows 7/XP/Vista. Deployed Palo Alto Networks PAN- 5050 designed and configured the commands for QoS and Access Lists for Nexus 7K and 5K. Experience working with Nexus 7018/7010, 5020, 5548, 2148, 2248 devices. Configured Routing Protocols like BGP, OSPF, MPLS, multicast and L2 protocols in ASA to check it is passing through via ASA in customer deployments. Involved in setting up IP Sec VPN between ASA firewalls. Configured and performed software upgrades on Cisco Wireless LAN Controllers for Wireless Network Access Control integration with Cisco ISE. Experience with implementing Cisco 6500 VSS on the User Distribution Switches and upgraded IOS on the ASA 5550, 5585, 5520 firewalls. Performed basic Security audit of perimeter routers, identifying missing ACL's, writing and applying ACL's Network Security including NAT/PAT, ACL and ASA firewalls. Re-design enterprise PCI Internal and External (PCI ASV) program to meet intent of PCI DSS requirements and ensuring coverage of PCI assets. Implemented site to site VPN in Juniper SRX as per customer. Installed high availability Big IP F5 LTM and GTM load balancers to provide uninterrupted service to customers. Optimizing and monitoring the performance of a WLAN, LAN, WAN and user's segments. Configuring RIP, OSPF and Static configuration on Juniper Series Routers. Configuring VLAN, Spanning tree, VSTP, SNMP on EX series switches. Environment: Juniper EX/SRX Switches, E, J Series Routers, Nexus 5k/7k Switches, Cisco ASA 5500 series, Juniper SRX, Palo Alto, Checkpoint, Firewalls, F5 BIGIP LTM, GTM, NetScaler, L3 VPN, OSPF, BGP, MPLS, EIGRP, LAN, WAN, RSTP, STP, BPDU, HSRP, VRRP, QOS, IDS/IPS. Network Administrator Prokarma Softech Pvt Ltd - Hyderabad, Telangana August 2014 to November 2015 Responsibilities: Experience in Cisco 7200, 7600 routers, Cisco 2800 3800 series switches: Physical cabling, IP addressing, Wide Area Network configurations (Frame-relay and ATM). Performed troubleshooting, while maintaining trouble ticket

tracking, following internal/external escalation procedures and customer notifications. Configured Cisco Routers for OSPF, IGRP, RIPv2, EIGRP, Static and default route. As a part of new site implementation configure Cisco devices with different routing protocol like BGP, OSPF, EIGRP based upon client requirement and as per company standards Experience with Information Technology Infrastructure Library (ITIL) processes, especially change management and configuration management. Experience in using Putty, Win SCP, Active Directory, VoIP, WebSphere Application Server, Apache, Eclipse, Databases (DB2, Oracle, SQL Server) Performed switching related tasks such as implementing VLANs, VTP, RSTP and Port security. Implemented security measures using ACL and configured NAT according to the connectivity requirement. Implementing HSRP, VRRP, GLBP redundancy on layer2 and Layer 3 level Port-channel implementation on Nexus 7k, 5k, Catalyst 6500, 4500 series for servers to get high bandwidth New Cisco Switches configuration with VLAN's, VTP and syslog, SMTP server and other security features. Nexus 7k, 5k, 2k Configuring with FEX, FHRP, VPC, VDC based on design which we are going to implement Environment: In Corporate office architecture with highly reliable & secured network including Cisco routers (7200, 7600, 3800, 2800) and Cisco switches (6500, 3700, 4900, 2900), Nexus (7K, 5K & 2K) Catalyst 6500, 4500 series, Routing Protocols (EIGRP, OSPF, IGRP, RIPv2, OSPF, BGP), Switching protocols (VTP, STP, GLBP, HSRP), FortiGate Firewall, Checkpoint, Palo Alto, Load balancer. Jr. Network Engineer Symbioun Software Pvt. Ltd - Hyderabad, Telangana June 2013 to July 2014 Responsibilities: Designing private network and maintaining the hardware, software installation & configuration. Designing and implementation of routing policy for customer internet route with link utilization. Configuring the routes like default, static routing and dynamic routing in the devices. Involved in Local Area Network design, troubleshooting and maintenance as per requirement. Creating and Maintaining the Network stability on VLAN, LAN and WAN. Troubleshooting issues related to VLAN, VLAN- Trunking, and STP. Involved in implementation of Trunking Encapsulation IEEE 802.1Q and ISL on Cisco catalyst switches L2, L3 Designing the VLAN along with INTER- VLAN routing. Configuring Cisco routers 26xx series using OSPF and EIGRP. Configuration to different applications with

RSTP, VTP, VTP Pruning. Redistributing from OSPF to RIP and vice versa by implementing hub and spoke topology with a Frame Relay Switch in between. Troubleshooting TCP/IP problems troubleshoot connectivity issues in multiprotocol Ethernet. Configuring static Nat, dynamic Nat and Nat pooling. Designed the network with sustainable IP using SUBNETTING like FLSM, VLSM.

Environment: Cisco 7200/3845/3600/2800 routers, Routing Protocols EIGRP, OSPF, BGP including VPN, VLAN, LAN, WAN, L2, L3, RSTP, VTP, FLSM, VLSM, TCP/IP, MPLS and Ether Channels.

Education Masters of Science in Information Technology in Information Technology Wilmington University Skills Bgp, Cisco, Dhcp, Eigrp, Juniper, Layer 3, Mpls, Optimization, Ospf, Switching, Vlan, Cisco asa, Cisco pix, Hsrp, Wireshark, Data center, Dns, Firewalls, Remedy, Solarwinds

Additional Information Technical Skills: Routers Cisco 1700, 1800, 2600, 2800, 3700, 3800, 3900, 7200, 7600 series, ASR9k Switches Cisco 3550, 3750, 4500, 6500 series & nexus 7k, 5k, 2k, 1000v, 1010 Load Balancer Cisco CSS, F5 Networks (BIG-IP) WAN Optimization Cisco WAAS Routing OSPF, EIGRP, BGP, RIP-2, PBR, Route Filtering, Redistribution, Summarization, Static Routing Switching VLAN, VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switching, Multicast Operations, Layer 3 Switches, Ether channels, Transparent Bridging LAN Ethernet, Fast Ethernet, Gigabit Ethernet, FDDI, CDDI, Token Ring, ATM LAN, Emulation WAN Leased lines 64k - 155Mb (PPP / HDLC), Fiber Optic Circuits, Frame Relay, ISDN, MPLS, DMVPN Voice Cisco call manager 8.x, 7.x IP Telephony VOIP, ISDN, PRI, Unified Call Manager Wireless Cisco 4400 Wireless Controller (WLC) and 1100, 1200 series Access Points Firewalls Cisco PIX, ASA, Juniper Netscreen, Palo Alto, SRX, Checkpoint Features & Services IOS and Features, HSRP, GLBP, IRDP, NAT, SNMP, SYSLOG, NTP, DHCP, CDP, DNS, TFTP and FTP Management Network Monitor Tool Netbrain & Solarwinds & Cisco Prime Infrastructure Protocol Analyzer Wireshark Ticketing tool & Data Center Tool BMC Remedy 8 & Service Now Security Cisco ASA, Check point, Juniper SRX, Palo Alto Operating System: DOS, Windows (95, 98, NT/2000, XP, Vista/7/8/10), Cisco IOS, Pan-OS

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