**Anala Abhishek**

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**Network Engineer**

**Summary:**

* Around 7+ years of Experience in Designing, Implementation and Operations of enterprise data networks as Network Engineer.
* Well experienced in configuring gateway redundancy protocols like HSRP, GLBP, PPP and SNMP.
* Proficient in Cisco IOS for configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4, MPLS.
* Strong knowledge of TACACS+, RADIUS implementation in Access Control Network.
* Implemented traffic filters using Standard and Extended access-lists, Distribute-Lists, and Route Maps.
* Expertise in working with Cisco and Nexus Switches, ASR 900 and Virtual Port Channel configuration.
* Experience in installing and configuring DNS**, DHCP** server.
* Experience in configuring Site-to-site and remote access **VPN** solutions on Cisco Routers.
* Enterprise Routing experience using protocols **RIP v1 & 2, EIGRP, OSPF** and **BGP**
* Worked on network topologies and configurations, **TCP/IP,** UDP, **Frame Relay**, Token ring, ATM, bridges, routers, and Switches.
* Enterprise Switching with VLANs, Trunks, Spanning Tree, Port Spanning etc.
* In depth understanding of IPV4 and implementation of Subnetting.
* Provides technical leadership for problem escalation and resolution.
* Highly motivated with the ability to work independently or as an integral part of a team and Committed to highest levels of profession.
* Strong hands on experience in installing, configuring and troubleshooting of Cisco 12404,12406,7600, 7200, 3800, 3600, 2800, 2600, 2500 and 1800 series Routers, Cisco Catalyst 6500, 4500, 3750, 2950 and 3500XL series switches.
* Experience with Juniper SRX and NetScreen, Checkpoint and Cisco ASA Firewalls
* Experience in WAN technologies like T1/T3, DS3, STM1 and STM4 circuit types
* Configured Security policies including NAT, PAT, VPN, Route-maps and Access Control Lists.
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.

**Education:**

**Master’s in Software Engineering, Vellore Institute of Technology, India**

**Professional Certifications:**

* **CCNA**

**Technical Skills:**

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| **Domain Area** | Network Designing, Network Troubleshooting, Network Security etc. |
| **Networking Equipment** | Cisco 2500,2600,2800,3600,3800,7200,7600 series routers;  Juniper MX10, MX 40  Cisco 1900,2900, 3500,3750,4900,6500 series catalyst switches Nexus 1000v/2000/3000/5596/7018.  Nexus, Brocade and Gigamon switches  Juniper EX 2300, EX 3300  Cisco Aironet 1200/2600/3600  Cisco ASA Firewall 5505, 5506-X, 5512-X  Juniper Net screen & SRX  Check Point Firewall R77  Palo Alto Firewall 7k, 5k series.  F5 , A10 and Citrix Netscalar load balancers |
| **Datacenter routers :** | Cisco 2800, 3800, 2900 |
| **Routing Protocols** | Static Routing, RIP V1, V2; EIGRP, OSPF, LDP, BGP, MPLS, ACLs, Route Redistribution and Summarization, VRF. |
| **LAN Technologies** | Ethernet/ Fast Ethernet/ Gigabit Ethernet networks, VLANS, VTP, STP (CST, PVST, RPVST+, RSTP) LACP,802.1q, ISL, Ether channel, EVPL, HSRP, VRRP, GLBP, Cisco SLB, GSLB, |
| **WAN Technologies Cloud** | 802.11 Standards, TCP/IP, OSI Layer, Fiber Optics, T1/E1, DWDM, OC192. Amazon Web Services |
| **Communication Protocols** | PPP, Frame Relay, SSL, HTTP, MPLS, 802.11 |
| **Communication Concepts**  **VoIP**  **Monitoring Tools**  **Platforms**  **Applications** | VPN, Multicasting, IPSEC VPN, TLS, SSL, STP, VTP, VLAN  Asterisk server, SIP, RTP  Zenoss, Net cool, Solar winds, Wire shark  Cisco IOS, NX-Windows XP, Vista, 7, 8, 10 and LINUX MS VISIO, MS Office |

**Professional Experience:**

**Lowes | Mooresville, NC | July 2019 - Till date**

**Designation: Datacenter Network Engineer**

**Responsibilities:**

* Responsible for designing and implementation of network and Security infrastructure.
* Reviewing, analyzing, approving and executing all changes in the network. All Configurations of Cisco Routers and Switches. Participated in a rotating 24x7 support schedule for the Network operation Center.
* Designed, validated and implemented LAN, WLAN & WAN solution to client’s needs.
* Implements new device of Cisco & Juniper MX – series as per policy reviewed by network architect.
* Works on CISCO Routers - GSR 12000 series, ASR9K, CSR 1000V, 7500, 7200 VXR, 4500M, 3700, 3600, 2600,1700 series, CISCO L2/L3 Switches – 2800, 3500, 3700,4000, 6500 series, and Worked on Nexus 5000 & 7000 Switches.
* Configures Virtual Chassis for Juniper switches EX-4300, Firewalls SRX-210.
* Use and maintain routing protocols OSPF and BGP on the Routers in the network & also worked on BGP Route Reflectors, Confederations.
* Experience working with BGP attributes such as Weight, Local-Preference, MED and AS-PATH to influence inbound and outbound traffic.
* Responsible for implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP and MST.
* Ensured that performance meets the requirements of SLAs and OLAs.
* Implemented wireless guest access. Integrated the wireless system with Cisco Prime Infrastructure.
* Installed and monitored performance of wired and wireless networks to maximize operations.
* Implementing and troubleshooting Palo Alto and CISCO ASA 5500 Series Firewalls.
* Implementing security policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, AAA (TACACS+ & RADIUS).
* Configuration, troubleshooting, maintenance of Cisco Pix Firewalls Ver. 5.0/6.0, Cisco ASA Firewalls Ver. 7.0/8.0 and Palo Alto PA-4000/PA-2000 Series.
* Redesigned the Cisco ASA firewall application inspection policies to ensure use of Layer 7 deep protocol inspection and validation in addition to Layer 2 – Layer 4 firewall rules.
* Negotiate VPN passages utilizing IPSec encryption measures furthermore designed and executed site-to-site VPN, Remote VPN.
* Deep understanding of Internet security technology including firewalls, packet filtering, NAT, Unix security, content filtering and encryption including IPSec, SSL/TLS, Kerberos, and LDAP.
* Configuration of Access List ACL (STD, Ext, Named) to allow users all over the company to access different applications and blocking others.
* Hands on Experience on implementation and troubleshooting of F5 LTMs and GTMs.
* Design and deployed F5 LTM load balancer infrastructure per business needs from the ground up approach.
* Worked on migration of Citrix Netscalar to F5 Load Balancers.
* Coordinate with application teams, firewall team and network team to migrate the application from old DMZ to New DMZ on F5 load balancers.
* Hands on experience on OpenvSwitch.
* Tested Cisco IOS, IOS upgrades, configuration upgrades, implemented VLANS, Sniffers.
* In depth knowledge with network monitoring and performance tools such as SolarWinds and Wireshark .
* Document the enterprise Aruba Network environment using tools such as Visio, Excel, and Word.
* Configuring/Installing Aruba and Cisco WLAN Equipment.
* Provided support for troubleshooting and resolving Customer and user reported issues.

**AIG, Greensboro, NC April 2017 – June 2019**

**Network Security Engineer**

**Responsibilities:**

* Involved in Migration of Nortel Captivity 1800 VPN routers to Juniper SRX firewalls.
* Involving in VPN (IPSEC, Site to Site) migrations and new designs for State government agencies such as State Police, Doc, HQ and etc...
* Configuring and troubleshooting issues with VPNs
* Configuring and troubleshooting the Secure Tunnels to primary data center and secondary data center to remote agencies.
* Managing and implementation of remote firewalls for State agencies using SPACE and SmartDashboard • Responsible for planning, documenting and implementation of complex Firewall and VPN solutions
* Determining root causes of network problems and delivering solutions, while maintaining a high level of customer satisfaction
* Performed Troubleshooting and monitored routing protocols such Static Routing and OSPF
* Daily technical hands on experience in the configuration, troubleshooting of Juniper SRX firewalls as well as experience working directly with customers in a service/support environment.
* Daily exposure to IP based network security protocols with Juniper SRX firewalls, Operating Systems and security configurations LAN/WAN/Security solutions.
* Implemented Checkpoint FW Interface, NAT and VLAN using R76 GAIA Smart Dashboard.
* Extensive implementation of firewall rules on R77 GAIA on daily basis using Smart Dashboard
* Configuration, troubleshooting Checkpoint Firewall using R77 Smart View Tracker and Monitor
* Also provide “Tier 2” support least twice weekly, and work on tickets for the Network Team, provide support with troubleshooting and resolving Networking issues with protocols Static Routing and OSPF
* Primary Environment: SRX220,SRX650, SRX3600 and Checkpoint R77

***Environment:*** LAN/WAN, Smart Dashboard, Juniper SRX firewalls, VPN, IPSEC, Checkpoint Firewall, OSPF, Juniper SRX firewalls, Operating Systems, R77 Smart View Tracker

**Amar Infotech, Ahmedabad, India** **October 2015 – March 2017**

**Designation: Network Engineer**

**Job Profile:** Member of the Network Engineering team to provide network support, configuration, design and implementation to maintain the connectivity between the various field offices and data centers

**Responsibilities:**

* Experience working with Cisco Nexus 2148 Fabric Extender and Nexus 5000 series to provide a Flexible Access Solution for datacenter access architecture.
* Experience configuring Virtual Device Context in Nexus 7010
* Designed QoS policies for critical applications based on business requirements and traffic patterns.
* Responsibilities also include technical documentation of all upgrades done. Attending meetings and technical discussions related to current project.
* Upgrading WAN link using PPP Multilink and by implementing Cisco WAAS
* Configuring HSRP between the 3845 router pairs for Gateway redundancy for the client desktops.
* Configure VRRP & GLBP and VLAN Trunking 802.1Q, STP, Port Security on Catalyst 6500 switches.
* Negotiate VPN tunnels using IPSec encryption standards and also configured and implemented site-to-site VPN, Remote VPN.
* Network Cabling, dressing, labeling and troubleshooting various network drops onsite.
* Configuration of Cisco 6500 (sup 720), 4500 (SUP 6) & 3750 Catalyst Switches for network access. Worked extensively on Cisco Firewalls, Cisco PIX (506E/515E/525/) & ASA 5500(5510/5540) Series, experience with convert PIX rules over to the Cisco ASA solution.
* Configuring RIP, OSPF and Static routing on Juniper M and MX series Routers
* Provide Tier III Level Load Balancer expertise on F5 BigIP Local Traffic Managers (LTM). Designing F5 solutions/support for migration work of applications and websites from Cisco CSS Load Balancers to the F5 BigIP Load Balancers.
* Configuring VLAN, Spanning tree, VSTP, SNMP on EX series switches
* Once trouble ticket has been created keep customer informed of status of ticket and estimated time to repair.
* Coordinating with service providers for WAN link outages.
* Checking and configuring Cisco 7600 and 7200 routers at data center for remote sites’ issues.
* Working on Cisco 6509 and 4507 series switches for LAN requirements that include managing VLANs,
* Port Security and troubleshooting LAN issues.
* Design, deployment and maintenance of enterprise networks and datacenters
* 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.
* Configured, maintained, and troubleshot routers and switches ranging from the 1720 series through the 7200 series routers and the 2900 series through the 6500 series switches in a highly redundant dual-homed environment.
* Monitoring the NMS system for different Network Alerts.
* Performed switching technology administration including VLANs, inter-VLAN routing, Trunking, STP, RSTP,port aggregation & link negotiation.
* Configuration of Access List ACL (Std, Ext, Named) to allow users all over the company to access different applications andblocking others.
* Responsible for Cisco ASA firewall administration across our global networks.
* Providing daily network support for national wide area network consisting of MPLS, VPN and point-to point site.
* 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.

**Environment:** Cisco 7200/3845/3600/2800 routers, ASR 9000, Flow, TACACS, EIGRP, RIP, OSPF, BGP, VPN, MPLS, CSM, SUP720, Ether Channels, Fluke and Sniffer.

**Teleysia Networks**  **Feb 2013 – Sep 2015**

**Role: Network Design Engineer**

**Client: Vodafone (New Delhi Circle)**

**Responsibilities :**

* Configured routing policies, Vlan, Access list, policy-map, Crypto key for various BRC’s and BRP’s.
* Configured HSRP and Vlan Trunking 802.1Q, Vlan routing on catalyst 4500 switches and nexus 7k switches.
* Configuring, managing and troubleshooting networks using routing protocols like BGP, RIP, EIGRP, Static routing and other policy based routing.
* Implemented changes on existing configurations for the applications on F5 load balancer. • Implementing firewall rules and Nat rules on the firewalls and troubleshooting flows
* Configured the servers on to the A10 as per the customer.
* Validation of the configuration after the work is implemented.
* Worked on migrating applications from F5 to A10.
* Troubleshooting and implementation rules on checkpoint firewall.
* Prepared method of procedures as a detailed template-based plan including: implementation, testing and back out procedures for all network implementations, upgrades and modifications, based on the changes requested.
* Converting Configurations from F5 to A10 and Writing MOP for staging A10 and cutover.
* Writing MOP for Firewall Policies and NAT as required for Migration activities.
* Writing MOP for changing routing and adding/removing VLAN as required for migration activities.
* Preparing Migration procedures, assisting with deployment and troubleshooting issues during migration call.
* Troubleshooting, assisting with load balancer related issues.
* NCM – Work with cross-functional teams to identify and stream line processes as per National guidelines. Ensure that new Nodes/Technology & Services align with T-Mobiles NTM & NCM processes. Review Release Planning documents to ensure requirements met.