**Ajay**

**Network Engineer**

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**Summary:**

* Network Professional with 7 years of experience in routing, switching, firewall technologies, system design, implementation and troubleshooting of complex network systems.
* In depth knowledge of TCP/IP fundamentals, Switching-Layer 2 & Routing- Layer 3, LAN/WAN fundamentals, VLAN, Routing Protocols like OSPF, EIGRP, RIP, BGP & IGRP, VPN, VoIP etc.
* Experience with the escalation problems for Routing, Switching and WAN connectivity issues using ticketing systems like remedy and Magic
* Experience in configuring of OSPF, EIGRP and HSRP on Cisco router like 7200, 3800, 3600, 2800, 2600, 2500, 1800.
* Hands on experience in working with Cisco switches like Cisco Catalyst 2900, 3500, 3750, 4500, 5500 and 6500.
* Implementing and troubleshooting complex layer 2 technologies such as VLAN Trunks, VTP Ether channel, STP, RSTP.
* Strong hands on experience on ASA (5540/5550) Firewalls. Implemented Security Policies using ACL, Firewall, IPSEC, SSL, VPN, IPS/IDS, VPNs (site-to-site, Remote user).
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.

Extensive knowledge in different networking protocols DHCP, DNS, FTP, Quality of Service (QOS).

* Troubleshoot and worked with security issues related to Cisco ASA, and IDS/IPS firewalls.
* Experience with Load Balancers for administrating and monitoring global & local traffic using Cisco CSM, ACE Module, and F5 BIG IP LTM
* Experience with DNS/DFS/DHCP/WINS Standardizations and Implementation
* Extensive hands-on experience with complex routed LAN and WAN networks, routers and switches.
* Hands-on configuration and experience in setting up Cisco routers to perform functions at the Access, Distribution, and Core layers.
* Experience in Network Management Tools and sniffers like SNMP, Wireshark and Cisco works.
* Proficiency in configuration of VLAN setup on various Cisco Routers and Switches.
* Ability to Install, Manage & Troubleshoot Large Networks & Systems Administration on Windows & Linux platforms in Development, Lab & Production Environments
* Design, configure, troubleshoot and implement wireless and/or data networking (LAN/WAN) solutions for mid-sized to enterprise-level clients
* Experienced in trouble-shooting both connectivity issues and hardware problems on Cisco based networks.
* Troubleshoot network connectivity and performance problems in a Linux environment
* Experience integrating Unix/Linux environments with Windows (AD) and Macintosh environments.
* Conduct Wireless RF Surveys and document results
* Develop comprehensive project-based System Designs, Network Diagrams, Migration Plans, and Test Plans
* Effectively communicate with internal Account Executives and potential clients to assess and make solution recommendations
* Hands on experience in implementation and deploying BIG-IP F5 LTM load balancers for load balancing and network traffic management for business applications.
* Worked on F5 LTM, GTM series like 6400, 6800, 8800 for the corporate applications and their availability.
* Configuring EIGRP, RIP, OSPF and Static routing on Juniper M and MX series Routers.
* Sound knowledge of virtual firewalls like checkpoint VSX, IDS, IPS, encryption techniques including virtual systems.
* Good knowledge on VLAN Trunk Protocol (VTP).
* Deploying Bluecoat Unified Agent on Client Laptops
* In-depth knowledge and hands-on experience in Tier II ISP Routing Policies, Network Architecture, IP Sub netting, VLSM, TCP/IP, NAT, DHCP, DNS, FT1 / T1 / FT3 / T3 SONET POS OCX / GigE circuits, Firewalls.
* Extensive knowledge in different networking protocols DHCP, DNS, FTP, Quality of Service (QOS).
* Substantial knowledge, including the configuration, of Spanning Tree Protocol (STP), Per VLAN Spanning Tree (PVST), Rapid STP (RSTP) and Rapid per VLAN Spanning Tree (PVST+).
* Experience with Load Balancers for administrating and monitoring global & local traffic using F5 BIG IP LTM & GTM
* Experience with Load Balancers for administrating and monitoring global & local traffic using Cisco CSM, ACE Module, and F5 BIG IP LTM & GSS.
* Working knowledge and monitoring of tools like Solar Winds and network packet capture tools like Wire-shark and TCPDUMP for analyzing the real-time statistics during the packet flow
* Experience in IPSEC VPN design connection and protocols, IPSEC tunnel configuration, encryption and integrity protocols.

**Education:**

* Bachelor of Technology from GITAM University, Hyderabad, India.

**Technical Skills:**

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| **ROUTERS** | **Cisco routers 7609, 7200, 3800, 2800, 2600 series(ISO-versionn12.0,12.2)** |
| **SWITCHES** | **Cisco Catalyst switches 6500, 4900, 4500, 3750, 2900 series, Nexus 7k, 5k, 2k series.** |
| **FIREWALLS** | **Checkpoint Firewall NG, NGX, NG R55, NGX60, NGX R65, R70, R75. Cisco PIX (506/515/525/535) and ASA (5505/5510) Series. Palo Alto Firewalls (PA- 5000/3000), Juniper Net Screen, Check Point Nokia Firewalls IP350, IP550 and IP 750.** |
| **ROUTING PROTOCOLS** | **EIGRP, OSPF, IGRP, IS-IS, HSRP, RIP and BGP** |
| **SWITCHING PROTOCOLS** | **VTP, ARP, LAN, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer switch, Ethernet channels, Transparent Bridging.** |
| **PLATFORMS** | **Cisco IOS (11.x, 12.x, 15.x), Nexus-OS, Pix IOS (6.x, 7.x), UNIX, LINUX, Windows XP, Vista, Windows 7& 8.** |
| **NETWORKING CONCEPTS** | **Access-lists, Routing, Switching, Subnetting, Designing, CSU/DSU, IPSec, VLAN, VPN, WEP, WAP, MPLS, VoIP, Bluetooth, Wi-Fi** |
| **LOAD-BALANCE** | **Cisco CSS, ASE Module, F5 Networks Big-IP LTM** |
| **NETWORKING TECHNOLOGIES** | **NAT/PAT, IPsec, ACL, IPv4, IPv6** |
| **MONITORING TOOLS** | **Wire shark, TCP dump, Fiddler, Microsoft Network Monitor, Solar Winds, and Cisco Works, IT360, Splunk.** |
| **LANGUAGES** | **C, C++** |
| **LAN TECHNOLOGIES** | **Ethernet, Fast Ethernet, Gigabit Ethernet, Port-channel, VLANS, 802.1Q, STP,**  **VTP, RSTP.** |
| **WAN TECHNOLOGIES** | **Frame-relay, Leased lines, ISDN, ATM, MPLS, SONET, T1/T3, PPP, DS1, DS3.** |

**PROFESSIONAL EXPERIENCE:**

**Comcast, Philadelphia, PA. April 2017- Present**

**Network Engineer**

**Responsibilities:**

* Configured routing protocols such as OSPF and Policy based Routing.
* Experienced with configuring Load Balancing methods in F5 LTM and also configured the virtual server.
* Configured Hot Standby Routing Protocol HSRP and VLAN Trunking Protocol.
* Worked on VPN, WLAN and Multicast
* Install, configure, maintain and administer Linux/UNIX operating systems and components.
* Configuring rules and Maintaining Palo Alto Firewalls & Analysis of firewall logs using various tools
* By configuring VLAN's, optimized the performance of WAN network.
* Configured Site to Site IPsec VPN tunnels to peer with different clients and each of client having different specifications of Phase 1 and Phase 2 policies using Cisco ASA 5500 series firewalls.
* Configured Easy VPN server and SSL VPN to facilitate various employees' access internal servers and resources with access restrictions.
* Installed Firewalls with both LAN and WAN and also configured them accordingly.
* Built the VPN tunnel and VPN encryption.
* Monitor, operate and support network security devices such as cisco ASA
* Configuring, testing, and troubleshooting routing and switching issues and related protocols associated with packet networks including MPLS and traffic engineering (QoS).
* Monitored wireless networks and performing site surveys.
* 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 Cisco ASA 5500 series and checkpoint R 75 firewalls.
* Implemented NAT’s solutions on Cisco Routers and configured IP access filter policies.
* Working knowledge of frame relay, MPLS services, OSPF, BGP and EIGRP routing protocols, NATing, sub-netting, also including DNS, LDAP, DHCP, http, HTML, HTTPS, TCP/IP, UDP, SNMP, OSPF, IPSEC, PPTP, VLAN, WISM, STP (Spanning tree Protocol), RTSP & Multicasting protocols
* Supporting EIGRP and BGP based on the network by resolving level 2 & 3 problems of internal teams & external customers of all locations
* Documenting workflow process, managing and implementing standard policy and procedures.
* Experienced with implementing and maintaining network monitoring systems such as Cisco works and HP Open view and have experience with developing complex network design documentation and presentations using VISIO

**Environment: Dealed with F5 load balancer and configured hsrp and optimized the performance of wan network, LAN, firewalls**

**TransUrban, Alexandria, VA Feb 2016 - March 2017**

**Network Engineer**

**Responsibilities:**

* Implementation of analysis, optimization, troubleshooting and documentation of LAN/WAN networking systems.
* Configured and troubleshoot OSPF and EIGRP.
* Planning and configuring the routing protocols such as OSPF, EIGRP, RIP, and Static Routing on the routers.
* Tested authentication in OSPF and BGP.
* Troubleshoot traffic passing managed firewalls via logs and packet captures.
* Migrating the policy from cisco ASA firewalls into Palo-Alto
* Implemented Zone Based firewall and Security Rules on the Palo Alto Firewalls
* Responsible for Checkpoint firewall management and operations across our global networks.
* Working with Checkpoint Support for resolving escalated issues.
* Switching tasks include VTP, ISL/ 802.1q, IPSec and GRE Tunneling, VLANs, Ether Channel, Trunking, Port Security, STP and RSTP.
* Responsible for layer 2 securities which was implemented using a dedicated VLAN ID for all trunk ports,
* Setting the user ports to non-trunking, deployed port security when possible for user ports
* Enabled STP attack mitigation (BPDU Guard, Root Guard), using MD5 authentication for VTP,
* Disabling all unused ports and putting them in unused VLAN and ensuring DHCP attack prevention
* Worked on configuration commissioning and upgradation of the MPLS circuits for various branch offices.
* Configured and resolved various OSPF issues in an OSPF multi area environment.
* Managed fast Layer 3 switched/routed LAN/WAN infrastructure as a part of Network team. The LAN consisted of Cisco campus model of Cisco 3550 at access layer, Cisco 6513 at distribution/core layer.
* Worked with telecom vendors regarding network fault isolation.
* Hands-on experience with WAN (ATM/Frame Relay), Routers, Switches, TCP/IP, Routing Protocols (BGP/OSPF), and IP addressing.
* Configured CIDR IP RIP, PPP, BGP and OSPF routing.
* Involved in the configuration & troubleshooting of routing protocols: MP-BGP, OSPF, LDP, EIGRP, RIP, BGP v4. Configured IP access filter policies.
* Experience with Firewall Administration, Rule Analysis, Rule Modification
* Modified internal infrastructure by adding switches to support server farms and added servers to existing DMZ environments to support new and existing application platforms.
* Excellent troubleshooting knowledge on T1, T3, OC-3 and OC-12.
* Generated RCA (Root Cause Analysis) for critical issues of layer1/layer2/layer3 problems.
* Configuration and troubleshooting of Cisco catalyst 6509, 7613 with supervisor cards.
* Worked with Juniper Firewalls.
* Experience with implementing and maintaining network monitoring systems (Cisco works and HP Open view) and experience with developing complex network design documentation and presentations using VISIO.
* Estimated Project costs and created documentation for project funding approvals.
* Configured ASA 5540 to ensure high-end security on the network with ACLs and Firewall.
* Used IPSec VPN tunneling to provide access to user machines and partners in another network. Provided application level redundancy and availability by deploying F5 load balancers LTM.
* Experience with convert Checkpoint VPN rules over to the Cisco ASA solution. Migration with Cisco ASA VPN experience.

**Environment: Dealed with OSPF and EIGRP, BGP, TCP/IP, WAN, Routers, Switches and IP Addressing, OSPF Routing, Juniper Firewalls**

**Next Education, Hyd, India April2013– Dec2015**

**Network Analyst**

**Responsibilities:**

* Designed ACLs, VLANs, troubleshooting IP addressing issues and taking back up of the configurations on switches and routers.
* Provided testing for network connectivity before and after install/upgrade.
* Switching related tasks included implementing VLANS and configuring ISL trunk on Fast-Ethernet and Gigabit Ethernet channel between switches.
* Worked extensively in Configuring, Monitoring and Troubleshooting Cisco's ASA 5585 Security appliance
* Configured cisco ASA 5510 firewall to establish logical separation between Legacy network & lab environment.
* Performed network monitoring, troubleshooting, implementation and maintenance of juniper and checkpoint firewalls
* Wireless design and validation, including RF site surveys of complex indoor and outdoor deployments
* Supported internal wireless network infrastructure operational requirements
* Worked on HSRP for hop redundancy and load balancing.
* Configured the Cisco router as IP Firewall and for NATing Configured RSTP, MST and used VTP with 802.1q trunk encapsulation.
* Provided technical support for better application response using QoS.
* Responsible for Internal and external accounts and, managing LAN/WAN and checking for Security.
* Installations of the networking devices (Cisco Router, switches) co-coordinating with the system/Network administrator during any major changes and implementation.
* Implementation of name resolution using WINS & DNS in TCP/IP environment.
* Configured FTP server for inside/outside users & vendors.
* Responsible for implementing, supporting, and maintaining 24x7 network services.
* Switchport cleanup for decommission of servers within network.
* Participated in the evaluation of vendor hardware, software, and wireless communications products
* Operational support and troubleshooting of production wireless network issues
* Provided technical support case escalation for customer wireless infrastructure
* Documentation of advanced enterprise wireless solutions and designs
* Monitor and analyze system resource utilization, communicate with vendors and other departments for problem resolution.
* Provided VPN services to site-to-site and, Remote access VPNs using IPSec tunneling along with ensuring of high availability.

**Environment: IP Firewall, TCP/IP, FTP, VPN, VLANS and Trunk Encapsulation.**

**IMI Mobile, Hyd, India June 2011 - Mar 2013**

**Network Engineer**

**Responsibilities:**

* Maintained disk space on all networks on a daily basis.
* Maintained a log of user problems to evaluate the relationship they may have with the Network.
* Assisted in the deployment of network solutions as assigned.
* Troubleshoot basic network issues such as down sites/phone outages in a 24/7 support role
* Supported physical media, protocol stacks, hubs, routers, bridges, gateways, and network management components.
* Monitored the performance of all servers and gateways.
* Monitored Network printing and evaluates the need for redistributing print jobs and adding Print servers.
* Maintained diagram of Network layout.
* Responsible for installation, administration, and testing of network servers, hubs, routers etc.
* Provide Level 2 support for daily assistance and troubleshooting
* Responsible for implementing, supporting, and maintaining 24x7 network services.
* Switchport cleanup for decommission of servers within network.
* Perform IP database management and cable work.
* Monitor and analyze system resource utilization, communicate with vendors and other departments for problem resolution
* Notify the staff prior to any major system changes or repairs
* Compiled diagrams in Visio of the WAN and LAN infrastructure.
* IP Subnetting for Class A, B, and C networks.
* Handled the upgradation and replacement of network components like NIC cards, display cards, RAM, keyboard, mouse and other peripherals/ devices.

**Environment: Routers, Bridges, Gateways, Network Management Components, WAN, LAN Architecture**