NETWORK ADMINISTRATOR

Summary

An IT professional with more than Eleven (11) years of experience in administration, escalation support, configuration, maintenance, engineering and troubleshooting of various technologies for medium to global enterprise environments and include proficiency in routing, switching, security, voice and wireless.

Highlights

- Cisco Routers/Switches: Cisco IOS, Routers (3900, 2900, 1900, 800), Cisco Catalyst (6500, 5500, 4900, 4500, 3000, and 3100)
- Security Technologies: AAA, IPS/IDS, TACACS+, RADIUS, SSH, VPN, Cisco ACS, Data Loss Prevention, IPSec, Data Management Zone, Pretty Good Protection (PGP), Public Key Infrastructure (PKI), Port Security, MAC Address Filtering, IPS/IDS, NPS.
- Firewall Technologies: CISCO ASA (5520/5510/5505) Juniper SRX (3600/650/210)
- Monitoring Tools/Apps: Wireshark, Solarwinds, Cisco Works & Spice Work.
- Enterprise Technologies: Windows 98/2000/XP/VISTA/7/8/10, Windows Server 2003/2008, Active Directory, DNS, WINS, Microsoft Office Suite.
- Connectivity & Hardware: Ethernet, Fast Ethernet, WAN, LAN, TCP/IP, Cisco ASA 5500, CDP, Frame-relay, PPP, ACL, Network Address Translation (NAT), Port Address Translation (PAT), OSPF Virtual links, RIPng, RIP, RIPv2, OSPF, EIGRP, BGP, MPLS, VTP, SNMP, SNMPv3, SMTP, ARP, TCP, UDP, Static Routing, Stub Routing, VLAN Trunking, Multi-Area OSPF, NBMA, Sonet, VLAN, VTP, HSRP, STP, SVI, CEF, Ether channel, BPDU, Port fast, GLBP.
- Wireless/VoIP Technologies: 802.11 a/b/g/n, WLAN, WAP, SSID, LWAPP, CSMA/CA, Cisco ACS, VoIP, IP Phone, Catalyst, CUCM, QoS, PoE, CME, CUE, MAC Address Filtering, SIP, RTP, SCCP, SRTP, UCCM, UCCX.

Accomplishments

Managed and maintained a LAN running on 300+ switches.

Spearheaded and led a major network installation and upgrade project.

Exceeded monthly goals by successfully handling more than 100 calls per week.

Multiple technical awards for work performance.

Experience

Network Administrator
August 2014 to Current Altair ï¼ Auburn , WA

LafargeHolcim (End Client) â€“ Dundee (MI)

- Network Administrator / Network Analyst II / Voice and Data Network Engineer
- Working on ASA (5505/5510) Firewalls.
- Implementing security policies using ACL, Firewall, IPSEC, SSL, VPN, AAA (TACACS+ & RADIUS).
- Dealt with monitoring tools like network packet capture tools like Solar wind wire-shark, etc.
- Migration of existing IPSEC VPN tunnels from Pre-Shared key to Certificate.
- Network Redesign for branches/Campus Locations.
- Changing both the voice and data environment.
- Replacing branch hardware with new 2851 routers and 2960 switches
- Performing security audits of perimeter routers, identifying missing ACL's.
- Troubleshooting of complex LAN/WAN infrastructure including routing protocols EIGRP, OSPF & BGP.
- Settings of the networking devices (Cisco Router, switches, ASA Firewall) co-coordinating with the system/Network administrator during implementation.
- Configuring network access servers and routers for AAA Security (TACACs Configuration).
- Upgrading and backups of Cisco router configuration files.
- Expert in configuring, supporting, trouble shooting, debugging Cisco IP Telephony networks.
- Familiarity with Cisco Unified Communications (CUCM, CME).
- Deployed Directory Number (DN) number for unregister IP Phone.

- Configure End User Profile in CUCM.
- Working on tickets that come into the ticketing system.
- Create User Profile in CUCM.
- Sync LDAP directory when unable to find users details.
- Configure Voice mail for specific extension and default PIN.
- Configure CISCO jabber (Soft Phone) when required.
- Create Change Request before upgradation or configuration of any CISCO Device.
- Install SRST Licensing and verifying.
- Troubleshooting phone unregister issue.
- Configuration and Troubleshooting SRST issue.
- Troubleshooting Call Manager.

Network Administrator
May 2013 to August 2014 Altair ï¼ Butler , PA

- Network Redesign for branches/Campus Locations.
- Changing both the voice and data environment.
- Troubleshooting of complex LAN/WAN infrastructure including routing protocols EIGRP, OSPF & BGP.
- Settings of the networking devices (Cisco Router switches, Access Point, Firewall).
- Advertise customer routes into internal BGP.
- Using BGP attribute MED and Local Preference for incoming and outgoing traffic engineering.
- Configure and Troubleshooting on OSPF.
- Maintain and assign areas in OSPF for internal network use.
- Configuring network access servers and routers for AAA Security.
- Worked on troubleshooting of complex LAN/WAN infrastructure.
- Monitoring all Cisco equipment's using Cisco Works.
- Upgrading and backups of Cisco router configuration files.
- Installation, Configuration and Administration of Windows Servers 2003/2008, Active Directory, FTP,DNS, DHCP, TFTP, Linux OS under various LAN and WAN environments.
- Implementing and maintaining backup schedules.
- Configured and troubleshooting with L3 and L2 Ether channel.
- Recommend, schedule, and perform network improvements activities.
- Providing end-user support and network administration services.
- Computer Network and management (LAN & WAN).
- Troubleshooting in the Local Area Network.
- Configuring and troubleshooting VLANs, VTP, and STP.
- Making configuration for the customer and testing into LAB environment.
- Experience regarding F5 BIG-IP (5050s) LTM VIP configuration with health check.
- Experience with F5 BIG-IP GTM Wide IP configuration.
- Setup F5 HTTPS SSL Load Balancing in Big-IP.
- Troubleshooting with sites engineer on Fixed networked.
- LAN / WAN installation, Configuration and support / IOS update (CISCO routers, Switches).
- Implemented and administer Cisco LMS 4.0.
- Worked on PRTG for bandwidth related cases.

Network Administrator
October 2011 to May 2013 Altair ï¼ Chicago , IL

- Configured LAN Switching: Cisco Catalyst Core and Edge Switches.
- Configured OSPF for assign Area and troubleshooting.
- Coordinate with site engineer and troubleshooting in Physical connectivity and configuration issues.
- Configured and maintain networked equipment (Switches, ADSL Modems, MPLS connectivity)
- Create and maintain networked related documentation.
- Recommend, schedule, and perform Worked improvements, upgrades.
- Configured, Troubleshooting and management routing protocol (OSPF)
- Configured, and troubleshooting STP and Virtual VLANS.
- Created spreadsheets for all outages, giving start and end times, their duration and cause.
- Responsible for taking care of RAS queue as backup.
- Troubleshooting of Worked problems - Made physical changes to routers, switches, DSU/CSUs in Order to increase
- Performance.
- Performed installations, technical support, troubleshooting and maintenance of Worked equipment
- Duties included LAN/WAN daily operations: Router & switch configurations/Access lists.
- Live the site offices to the du Worked which involve layer 2 and layer 3 switches.
- Expertise in make new Worked diagram and upgrade central Worked diagram.
- Project Plan and Operation.
- Troubleshooting with sites engineer on Fixed networked.

Network Administrator
April 2008 to October 2011 Altair ï¼ Dallas , TX

- Studied and analyzed client requirements to provide solutions for network design, configuration and administrator.
- Created a backup and recovery policy for software application and verified peripherals are working properly
- Monitor performance of network and servers to identify potential problems and bottleneck.
- Interacted with support services to reduce the downtime on leased lines.
- Troubleshoot problems on a day to day basis & provide solutions that would fix the problems within their network
- Monitor the operability and reliability of the network.
- Maintenance and Troubleshooting of connectivity problems using Ping, Trace route.
- Managed the IP address space using subnets and variable length subnet masks (VLSM).
- Worked along with the team in ticketing issues.
- Daily responsibilities included monitoring remote site using network management tools, assisted in Design guidance for infrastructure upgrade & help LAN administrator with backbone connection and Connectivity issues
- Other responsibilities included documentation and support other teams.

LAN Administrator
June 2004 to March 2008 Grady Health System ï¼ Cuthbert , GA

- Responsible for support of two computer labs, containing IBM client/server machines.
- Heavy hardware troubleshooting for PCs: installed, repaired, and replaced CPUs, mother boards, memory, video cards, network cards, SCSI cards, printers, monitors, floppy, CD ROM and hard drives.
- Daily duties include preventive maintenance, installation of various Software, assist students with applications on computer network, troubleshoot problems with installations, and network all machines throughout the campus Achievements
- Reduced the cost of installing new equipment's by identifying the effective solutions from right vendors by 10%.

Education
Post graduate diploma : Computer Application , 2004 IGNOU University India Computer Application
Diploma : Taxation Law and Practice , 2004 Gujarat University India Taxation Law and Practice
Bachelor : Commerce , 2003 Gujarat University India Commerce
Certifications

- Cisco Certified Network Professional â€“ Routing/Switching/Troubleshooting CCNP
- Cisco Certified Network Associate â€“ Routing/Switching CCNA

Skills

Routing & Switching Â

Implement VLAN Trunking Protocol to reduce administrative overhead. Enable secure sharing of VLAN information to prevent the introduction of rogue devices from affecting the VLAN database. Shutdown unused switches ports following Layer 2 security best practices.

Create and manage Local VLANs based on department function, and configure ports with static VLAN assignment and 802.1Q trunks for layer 2 forwarding. Configure edge ports for fast-transitioning into the forwarding state to fix workstation startup connectivity delays.

Configure frame-relay point-to-point and multipoint connections to establish connectivity between each of the four sites as required. Establish frame-relay point-to-point connections three of the sites creating a full mesh. Implement hub and spoke network between three of the sites with the main office as the hub for redundant connections.

Implement EIGRP routing for point-to-point and Non Broadcast Multi-Access networks. Ensure that the spoke routers are receiving routing information about each other from the hub. Configure EIGRP unequal-cost load balancing to also use the lower capacity multipoint links when routing packets.

Prevent neighbor adjacencies from being formed as well as the sending and receiving of routing updates on unnecessary interfaces. Configure EIGRP MD5 Authentication between sites to prevent unauthorized insertion of routes into the domain. Implement manual EIGRP route summarization to reduce routing protocol demand on CPU resources, memory, and bandwidth used to maintain the routing table.

Implement OSPF routing with multiple areas for networks between sites. Implement totally stubby areas to lower the system resource utilization of

routing devices for the network. Implement NSSA area to allow injection of external routes into the area and propagation into the OSPF domain.

Voice

Implement a local voice network with the network elements: Cisco 3550 switch with Power-over-Ethernet. Create and manage Data and Voice VLANs, and configure ports with static VLAN assignment and 802.1Q trunks for layer 2 forwarding. Configure edge ports for fast-transitioning into the forwarding state to fix workstation startup connectivity delays.

Configure Fast Ethernet main and sub-interface assignments as required for inter-vlan routing. Implement static routes for local connectivity. Implement NTP server, DHCP server, and TFTP server for support of the VoIP network. Modification of system level parameters including max phones, max directory numbers, display format for date and time, and setting the Time-Zone.

Security

Implement an IPSec Site-to-Site VPN between the Cisco ASA5505 at small office location and Cisco 1841 ISR with a security IOS image at the main office.

Implementations include PAT with NAT exemptions for the VPN traffic on the Cisco ASA5505, and PAT using a route-map to exclude VPN traffic from translation on the Cisco 1841 ISR.

Wireless

Implementation Create and configure dynamic interfaces for VLAN and WLAN association. Create wireless LANs and configure interface association, security parameters, and radios used. Utilize the Wireless LAN Controllers web GUI to configure and manage the wireless network. Configure internal DHCP scopes for WLANs.