Nagi Reddy
Network Engineer Consultant

Kansas City, MO - Email me on Indeed: indeed.com/r/Nagi-Reddy/6229cbaf75c66a90

Willing to relocate: Anywhere
Sponsorship required to work in the US

WORK EXPERIENCE

Network Engineer Consultant
IP HEIGHTS LLC   -   Edison, NJ - September 2016 to June 2017

Responsibilities:
• Establishing Networking environment by designing system configuration, directing system installation.
• Ensuring Network Connectivity throughout the company's LAN/WAN Infrastructure is on par with Technical considerations.
• Maintain network servers such as file servers, VPN Gateways, and IDS.
• Assisted in MPLS migrations, implemented a backup for the existing WAN connection using Site to Site IP SEC VPN tunnels.
• Conversion to BGP WAN routing. Which will be to convert WAN routing from OSPF to BGP (OSPF is used for local routing only) which involves WAN routing only.
• Design, implementation and Management of network Systems including wireless Infrastructures.
• Install and configure Cisco wireless controller (WLC 5508, 4404, 4402).
• Analysis, Architecture, Design, networking, configuration, troubleshooting and support of Juniper Networks. Configure firewalls, routers, switches and other network devices for 10- 500 Node Networks.

Network Engineer
Dell   -   Bangalore, Karnataka - June 2014 to November 2014

Responsibilities:
• Involved in troubleshooting of DNS, DHCP and other IP conflict problems.
• Configured FTP server for inside/outside users & vendors.
• Enabled STP Enhancements to speed up the network convergence that include Port-fast, Uplink-fast and Backbone-fast.
• Configured network access servers and routers for AAA Security (RADIUS/ TACACS+).
• Other responsibilities included documentation and change control.
• Creating Private VLANs & preventing VLAN hopping attacks & mitigating spoofing with snooping & IP source guard.
• Hands on Experience working with security issue like applying ACL's, configuring NAT and VPN.
• Maintaining Core Switches, creating VLANs and configuring VTP.
• Configured Routing protocols OSPF, RIP & BGP.
• Configured BGP for CE to PE route advertisement inside the lab environment.
• Spearheaded meetings & discussions with team members regarding network optimization and regarding BGP issues.
• Configured IPsec L3VPN tunnel between 2 ASA 5550 Firewalls. Applied access list and NAT configurations.
• Responsible for Configuring SITE_TO_SITE VPN on Cisco Routers between Head Quarters and Branch locations.
• In charge of configuring InTouch local and wide area wired and wireless networks.

• Implemented the security architecture for highly complex transport and application architectures addressing well known vulnerabilities and using access control lists that would serve as their primary security on their core & failover firewalls.

Environment: In Corporate office architecture with highly reliable & secured network including Cisco routers (7200, 3800, 2800), Cisco switches (4900, 2900, 3650), Routing Protocols (OSPF, EIGRP, RIP, BGP), Switching protocols (VTP, STP, GLBP).

Network Technician

HCL Technologies - Hyderabad, ANDHRA PRADESH, IN - May 2013 to April 2014

• Troubleshot Cisco hardware: Inspected devices, read device LEDs, loose connections, interior IOS upgrade, switch port configuration, port monitoring, watch over Flooding Control/Network port.
• Installed and configured DHCP, DNS Server.
• Identifying technical problems and debugged hardware and software related to LANs/ WANs.
• Switching related tasks included implementing VLANS, VTP and configuring ISL trunk on Fast - Ethernet channel between switches.
• Develop and implement strategies to support the current and future needs of the company.
• Configured Cisco Routers 2600 series using RIP, OSPF, and EIGRP.
• Configured Cisco Switches 2900.
• Strategies include operating systems, virus protection, mail systems and Internet services.
• Resolved all computer related problems, monitored and maintained system functionality and reliability by identifying ways to prevent system failures.

SIGNIFICANT PROJECTS:
Analysis of RIP, OSPF and EIGRP routing protocols using OPNET.
• Responsibility: In this project, I analyze and compare the convergence times of three protocols: Routing Information Protocol (RIP), Open Shortest Path First (OSPF), and Enhanced Interior Gateway Routing Protocol (EIGRP).
• Challenges: Analyzing the routing tables of a simple network topology to study the metrics of each protocol and gain a better understanding of how routes are chosen. The main challenge of this project lied in understanding the protocol parameters, and how they affected the simulation results. Another challenge was in understanding the routing tables we obtained, as well as the convergence times and how they were influenced by the network topology.
• Technology - OPNET 16.0
Analyze the performance of 802.11 using Riverbed Modular Academic Edition.
• The main objective of the project is to investigate and analyze the performance of 802.11 i.e a family of specifications for WLANs using Riverbed Modeler Academic Edition simulator for different number of users by changing various parameters.
• Understanding reduced throughput when more nodes are sending. The other tasks include finding impact of access point on throughput per node and medium access delay of over loaded node.

EDUCATION

Master's in Electrical Engineering

University of Missouri - Kansas City, MO
May 2016

Bachelor's in Electronics & Communication Engineering

JNTU - Hyderabad, ANDHRA PRADESH, IN
May 2014

SKILLS

CISCO (2 years), OSPF (2 years), DHCP (1 year), DNS (1 year), EIGRP (1 year)

ADDITIONAL INFORMATION

EXPERTISE:
• Expertise in Routing protocols like OSPF, BGP, EIGRP and RIP.
• Strong Experience in TCP/IP protocols and troubleshooting.
• Excellent working knowledge of TCP/IP protocol suite and OSI layers.
• Excellent knowledge on IP addressing and subnet masking.
• Installation & Configuration of CISCO Routers and switches.
• Strong grasp of current and future technologies including TCP/IP, IPv4/v6, RIP, EIGRP, OSPF,
BGP, Frame Relay, ACL, VPN, Wireless LAN and configuration of VLANS.
• In-depth knowledge of deploying and troubleshooting LAN, WAN, Frame-Relay, Ether-channel, ACL's, NAT,
VLAN, STP, VTP.
• Very good working knowledge of Wireless LAN Controllers(WLC).
• Expertise in installing and managing IT services such as Active directory, site replication, DNS, SSH, DHCP,
DNS, NAT and VMware.
• Basic knowledge of cisco VOIP.
• Proficient in Coding and De-bugging using C, C++, java, VHDL and Verilog HDL.
• Efficient at use of Microsoft VISIO/Office as technical documentation and presentation tools.

SKILLS AND TOOLS:

Routers 7600, 7200, 3800, 3600, 2800, 2600, 2500, 1800
Cisco Switches 6500, 5000, 4900, 4500, 3650, 3500, 2900, 1900
Routing Protocol (BGP, OSPF, EIGRP, IGRP, RIP), Routed Protocol TCP/IP.
Switching VTP, STP, PVST+, RPVST+, Inter VLAN routing & Multi-Layer Switch, Ether channels
Virtualization Cisco packet tracer 5.0, GNS3, Riverbed modular 17.5
LAN Protocol VLAN, VTP, RAS, Inter-VLAN routing, ISL, dot1q, STP, RSTP, PVST, HSRP, GLBP, Ethernet,
Port security.
WAN Technology PPP, Frame relay, ISDN, ATM, MPLS
Network Security Knowledge of Firewall, ASA, IPSEC, & VPN
Application Protocols DHCP, DNS, FTP, TFTP, SNMP, HTTP, FTP, ICMP, SMTP, SSL, IP, IPV6.
AAA Architecture TACACS+, RADIUS
Documentation Microsoft Office, Visio
Operating systems windows server […] Linux, UNIX, Mac OS X, Windows 7/XP.