PERFORMANCE TEST ENGINEER

Summary

Talented Network Engineer with over 7 years' experience seeks position that will utilize exceptional training, certifications, and experience as a network support specialist

Highlights

- LAN Protocols, Ethernet, VLANs, Trunking, STP, VRRP
- Windows, Linux, Ixia OS
- Enterasys, Extreme, Cisco IOS
- Layer 3 routing, BGPv4, BGP4+, OSPF, OSPFv3.
- MPLS LDP, Multiprotocol BGP MPLS VPN
- Performance / Load / Stress Testing
- IPv4 VLSM, IPv6
- Ixia Software Suite
- BGP Network Administration
- Python Scripting
- Troubleshooting, Wireshark/Tcpdump

Experience

10/2016 to 03/2016
Performance Test Engineer Amdocs ï¼ Atlanta , TX

- Performance testing and analysis of two competing VPN solutions.
- Wrote Python script to extract file transfer data from raw log files reducing data entry time from hours to minutes.
- Advised on network design changes which led to a more stable test network.
- Responsible for data entry and formatting in Excel.

02/2013 to 02/2015
Senior Software Quality Assurance Engineer Wabtec Corporation ï¼ Jacksonville , FL

- Contributed to the successful IP stack upgrade of Extreme's high end modular routers.
- Integrated 4 of Extreme's high-end routers into existing test network to create 20 node, multi-tiered network designed to simultaneously test MPLS/LDP, IPv4/IPv6 L3VPN, BGP/BGP+ for system verification, resiliency and interoperability.
- Designed, constructed and performed all testing on 2 interconnected test networks, with 2 different stored configurations for each.
- Scripts were used to reconfigure systems dynamically and at will thus reducing resources necessary to perform required testing.

01/2003 to 01/2013
Senior Software Quality Assurance Engineer Wabtec Corporation ï¼ Plattsburgh , NY

- Member of three different teams over 10 years contributing to the successful release of two product lines, Matrix X Series and S-series and the successful updating and improvement of the Xpedition line of switch-routers.
- Designed and implemented Enterasys' first MPLS L3VPN test network.
- Solution was successfully installed by large African nation to provide government's VPN services.
- Tested Enterasys' first internet-ready BGP/BGP+ router capable of handling multiple copies of internet routing table simultaneously.
- Designed, implemented and maintained 2 separate test networks.
- One focused on BGP testing and 2nd on a large L3VPN implementation, included MPLS/LDP, BGP and IGP protocols.
- Testing was often performed on 2 test beds concurrently.
- Maintained live BGP internet connection and performed route loading performance and capacity testing of complete internet route table.
- Executed extensive test plans consisting of system tests, functional testing, scalability testing, route loading performance, platform-specific tests, conformance, and event testing.
- Documented product defects and worked closely with developer, troubleshooting and isolating problems, reducing network complexity when necessary.
- Utilized Ixia and Spirent suite of network test products, emulating routers and passing deterministic traffic throughout test network.
- Also utilized virtual machines, simulating PC/Linux host.
- Tested/maintained/administered system test networks of up to 50 nodes.
- Served as part of 4-person team, representing Enterasys at INTEROPNET, responsible for successfully building, testing, implementing and administering largest temporary network in the world for 2010 Interop Network Trade Shows in Las Vegas and New York.

01/2000 to 01/2002
Senior Quality Assurance Engineer General Motors ï¼ Pontiac , MI

- Tested IP routing protocols (BGP, OSPF, RIP) and Multiprotocol Label Switching (LDP, RSVP) on entire Portsmouth-developed WAN and SONET product families.
- Designed, implemented and maintained 10-router WAN regression test network.
- Simultaneously tested WAN hardware routing and switching protocols.
- Designed, implemented and automated DS3 capacity test network, satisfying requirements of $4M / quarter customer and eliminated network problems.

- Led effort to test new rate shaping technology on WAN products, developed and updated test plans and performed all testing.

01/1999 to 01/2000
Network Engineer III Convergeone ï¼ Topeka , KS

- Oversaw VPN, DSL and VOIP solutions testing.
- Worked closely with sales engineers and development team to implement and test proposed customer solutions.
- Reported problems or issues directly to engineering and documented solutions to aid field personnel with deployment.
- Worked collaboratively with the State of NH, designing and testing VPN solution.
- Proposed and documented a strategy that successfully integrated the solution.

01/1993 to 01/1999
Network Engineer II Time Warner Cable ï¼ Pewaukee , WI

- Supported Cabletron's largest customer by emulating network in lab environment.
- Provided consultation to marketing, management and field personnel on feasibility of proposed solutions.
- Built and maintained an interoperability network consisting of all Cabletron WAN products.
- Worked closely with development team, resolving problems, communicating test results, and suggesting system improvements.

Education
1995
Computer Science UNIVERSITY OF NEW HAMPSHIRE ï¼ City , State Computer Science
1991
Associate : Arts General Studies Computer Technology Option UNIVERSITY OF NEW HAMPSHIRE ï¼ City , State Arts General Studies
Computer Technology Option
Skills
BGP4, BGP, Cabletron, Cisco IOS, hardware, consultation, data entry, designing, DSL, Ethernet, functional, government, IP, LAN, Linux,
marketing, Excel, Windows, Network Administration, network design, Network, networks, OS, developer, OSPF, personnel, Processes, test
products, Protocols, Python, RIP, router, routers, routing, sales, Scripts, script, Scripting, SONET, strategy, switch, Trade Shows,
Troubleshooting, upgrade, VPN, VOIP, WAN