

NIGEL J. CLARKE

clarke@craftedpackets.net
www.craftedpackets.net

908 672 0767
Somerset, NJ

SENIOR SECURITY ENGINEER

Solutions-driven technical specialist with outstanding strategic planning, project management, documentation and communication skills. Technical expertise offered to select clients including: Financial, Pharmaceutical, Internet Service Providers, Engineering and Manufacturing companies.

CORE ENGINEERING QUALIFICATIONS

SECURITY ENGINEERING

Software and Utilities: Port scanning, application vulnerability assessment, intrusion detection, password cracking tools, network forensic tools, file encryption and key management, enterprise anti-virus solutions;

Firewall Software: Checkpoint 3.x - NG, Stonebeat, Checkpoint Provider 1, Nokia IPSO 3.3 – 3.6, Iptables, IPChains, Cisco IOS access list and reflexive access list, Cisco IOS firewall, Cisco FOS 4.x – 6.3;

Firewall Hardware: Nokia, Cisco Pix, Linksys, Netscreen;

SECURITY ADMINISTRATION

Security Policy – Creation and modification of policies for

Software Auditing – Detailed security auditing for internal and external auditors

Disaster Recovery Planning – Site coordination, personnel selection, project planning

Security Compliance – Creation and revision of security standards for system, network and B2B communication

SYSTEMS ADMINISTRATION

Operating Systems: Solaris 2.6 -2.8, Linux , WINDOWS NT 4.0, WINDOWS 2000 Advanced Server, MAC OS X, OPENBSD, FREEBSD;

Server Administration: SAMBA, DNS, DHCP, APACHE, IIS;

Programming: PERL, C and Unix shell programming in Csh, Ksh, Bsh, HTML;

Hardware: Sparc, Ultra, concentrators and terminators, tape drives, SCSI devices, RAID, Disk Mirroring;

NETWORK ENGINEERING

Internet Protocols: RIP, RIPv2, OSPF, BGP, IGRP, EIGRP, PIM SM/DM, DVMRP, WCCPv1 & v2, SNMP, DLSW+, RSRB, HSRP, VRRP, RMON, IPv6;

Network Hardware: Cisco 2500 - 7500 series routers, Cisco 1900 - 6500 series switches, Cisco Channel Interface Processor, Cisco Local Director, Cisco Content Engine, Alteon ACE Director, Extreme Summit 48, Foundry Server Iron, Foundry Fast Iron, CacheFlow 500, Bay Networks (Nortel) BCN and ASN;

LAN/WAN: Wireless Ethernet 802.11b, Fast Ethernet, Gigabit Ethernet, ATM, Frame Relay;

Network management software: Norton Antivirus Corporate edition 7.6, MRTG, Whatsup Gold, Cisco Works 2000, Cisco Secure ACS v2.3, HP Openview;

Network Analysis: Sniffer Pro, Distributed Sniffer, Snoop, TCPdump and Ethereal;

TECHNICAL AFFILIATIONS

✍ Technical review of Addison Wesley publication “**High Availability Networking with Cisco**” contributed to the technical content, received honorable mention.

✍ Associate member of the (IETF) Internet Engineering Task Force – Routing Protocol Security

✍ Associate member of the Internet 2 Multicast Working group

PROFESSIONAL EXPERIENCE

CRAFTED PACKETS

Somerset, NJ

Network Security Engineer

4/01 – Present

✍ Performed penetration testing and reconnaissance of client networks. Application security testing through the use of commercial and open source security tools.

✍ Analysis of vulnerabilities, exploits, client applications and software. Provided detailed documentation for management and security teams.

✍ Developed custom security reports and enterprise security tools exclusive to client environments

CRAFTED PACKETS – *continued*

- ✍ Firewall installations include Checkpoint, Netscreen, Cisco PIX. Installation included high availability, cluster and stand alone configurations.
- ✍ Use of intrusion detection technologies to identify network attackers and traffic abnormalities.
- ✍ Analysis of security and network topologies. Identified security weaknesses in infrastructure.
- ✍ Provided security training and mentoring to client staff. Provided exclusive security documents that allowed the client staff to support emerging security technologies.
- ✍ Performed assessments on client security hardware. Optimized security and network infrastructure for best throughput and performance.

CANON USA **Network Security Engineer**

Lake Success, NY
3/99 – 4/01

- ✍ Installation of Checkpoint Firewall 4.0 and 4.1 on Nokia IP 330, SUN Sparc 10 and 20 platforms
- ✍ Administrative duties included scheduled backups for DNS, Firewall and mail servers.
- ✍ Completion of R&D IP multicast. Configuration and testing of IP multicast using Cisco's IP/TV solution. Upon completion of this testing the campus network had the ability to stream audio and video feeds as well as multicast software updates to servers and clients.
- ✍ Improved access to company web servers by installing Foundry Server Iron and CacheFlow 500. Taking advantage of the transparent cache feature and layer 4 switching technology, response time to the Internet was greatly improved for the entire company.
- ✍ Use of Network Associates analysis tools in conjunction with Optimal Networks software suite for network analysis and troubleshooting. Provided analysis and detailed reports for company E-business servers, allowing programmers to modify applications and improve web server performance.

MINDSPRING **Network Systems Engineer**

Atlanta, Ga
10/98 – 4/99

- ✍ Installation and maintenance of customer firewalls on Solaris and Linux platforms.
- ✍ Use of CIDR and VLSM IP addressing schemes, permitting efficient allocation of IP addresses for network. Worked with upstream global service providers to allowing proper CIDR block propagation and advertisement. Allocation of subnets for dial in access servers, allowing proper redistribution between OSPF and RIPv2.

SUNTRUST BANK **Network Engineer** – *consultant*

Atlanta, Ga
5/98 – 10/98

- ✍ Network Engineer responsible for migrating RSRB network toward DLSW+, reducing traffic on wide area network. Use of Network Associates sniffer to analyze Ethernet and Token Ring segments, providing resolution for network throughput problems for users in metro area locations.
- ✍ Configuration of network access lists for IP, IPX and AppleTalk protocols. This allowed network filtering for security reasons, as well as restraining and controlling unnecessary network broadcast.

BELLSOUTH.NET **Wan Analyst II** – *consultant*

Dunwoody, Ga
8/97 – 2/98

- ✍ Level II network analyst providing support for network operation personnel, resolving network failure and making critical escalation decisions. Worked with service provider to resolve network failure and offered solutions for major outages.
- ✍ Configuration of Cisco 5200 access servers, troubleshooting dial in access failure. Utilization of HP Openview for network management of network hardware and servers. Worked with dedicated customers, providing resolution for internal network problems.

TURNER BROADCASTING **Network Implementation Technician**

Atlanta, Ga
12/96 – 8/97

- ✍ Network Technician providing support for subsidiaries that included: CNN Interactive, CNN International and CNN Headline news, CNNSI & CNN Spanish.
- ✍ Management of enterprise WAN through the use of HP Openview. Worked with users in remote locations, this included Russia, Germany, England and several locations in South America.

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NEXTEL COMMUNICATIONS

Norcross, Ga

WAN ANALYST – *consultant*

7/96 – 11/96

☞ WAN Analyst responsible management of enterprise network. Use of HP Openview and Cisco works, providing statistics on routers and backing up router configuration and images.

☞ Interfaced with various telecom departments to resolve wide area network problems, these included both Frame Relay and dedicated circuits.

☞ Worked with system and network engineering departments to understand network design and application server placement.

TECHNICAL EDUCATION & TRAINING

☞ Metropolitan Institute of Network Technology, 1996

☞ New York University – C Programming, 2001

☞ Cisco Certified Training, 1996 - 2000

☞ Sun Microsystems Certified Training, 2001

☞ Checkpoint Certified Training, 1999

☞ Network Associates Certified Training, 1997