David Girardin
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Education

BA Industrial Technology with Specialization in Networking (2006)
Central Connecticut State University**,** New Britain, CT

Technical Skills

Applications
- Apache httpd, BIND, Cisco AnyConnect/ASDM/FTD/Meraki/Umbrella, EVE-NG, FRRouting, gcc, iptables, KVM, Libreswan, Linux kernel, MariaDB, Microsoft Excel, Microsoft Visio, MySQL, Nagios, Nessus, netcat, nmap, OpenNMS, OpenSSH, Openswan, OSSEC, Qmail, Quagga, rsyslogd, SecureCRT, Sendmail, SolarWinds, Splunk, Subversion, Sudo, tac_plus, tcpdump, VMware ESXi, Wireshark, Xen

Cloud
- AWS, Cisco CSR1000v/FTDv, Direct Connect, EC2, Equinix Fabric, Hybrid Cloud, Microsoft Office 365, VPC

Hardware
- Cisco Firewalls: ASA 55xx, Firepower 11xx/41xx, FTD
- Cisco Routers: ASR 1xxx, ISR 891/1841/19xx/26xx/28xx/29xx/39xx/42xx/43xx/44xx, 7206VXR
- Cisco Switches: Catalyst 2950/2960/3560/3650/4000/4500/4948/6500/9200/9300, Nexus 3600
- Juniper Routers: M5, M7i, MX240, SRX3xx
- Server hardware assembly, upgrades, troubleshooting, RAID0/1/5/6/10

Networking
- BGP, DHCP, DMVPN, DNS, GRE, HSRP, IPsec, IPv4, IPv6, LDP, MPLS, NAT, Netflow, OSPF, SD-WAN, SNMP, STP, TACACS+, TCP, TLS, VASI, VPC, VRF, VRRP, VTI, VTP, UDP, Wi-Fi

Operating Systems
- Cisco ASA, Cisco FTD, Cisco FXOS, Cisco IOS, Cisco IOS XE, Cisco NX-OS, FreeBSD, Juniper Junos, Linux, Microsoft Windows

Programming / Scripting
- Bash, C, expect, HTML, JavaScript, JSON, PHP, Python, SQL, TCL, XML

Work Experience

Director of Network Engineering & IT Security (June 2018 – October 2023)
Ventus Wireless, LLC - Norwalk, CT
- This was a very hands-on senior engineering position which involved routinely guiding staff on highly technical issues, with an emphasis on security, efficiency and automation.
- Led and mentored team of 6 employees including Network Engineers, Systems Engineers and Technicians.
- Worked closely with other department leaders and the C-suite in support of resolving escalated customer issues and routine project requirements involving network, systems, or security.
- Designed next-generation production data center environment and MPLS network, and led the team which successfully implemented it, which significantly improved network reliability, scalability and security.
- Designed and implemented hybrid AWS corporate network between VPCs and Equinix data centers, as well as deployment of multiple Cisco Firepower appliances for company-wide remote access VPN.
- Developed custom software applications to improve efficiency, including SBOM/CVE management for hundreds of Linux servers, Cisco contract management via SolarWinds and SmartNet REST APIs, and automation of configuration for common backhaul VPN tunnels and associated BGP configurations.
- Executed routine internal and external vulnerability scans via Nessus Professional.
- Managed PCI DSS compliance program, including third party vendors involved with routine penetration testing, network scans, and formal compliance reporting.
- Monitored security mailing lists and other news sources for bleeding edge Cisco/Linux vulnerabilities, and regularly established action items to protect critical systems from exploitation.

- Performed daily security event analysis via HIDS (OSSEC), SIEM (Splunk), Cisco FMC and SolarWinds.

Senior Network Engineer (April 2011 – June 2018)
Ventus Wireless, LLC - Norwalk, CT
- Responsible for service provider PCI DSS compliant financial network and systems in a 24x7x365 environment consisting of over 150,000 edge locations, including a core network spanning 3 data centers with multi-homed WAN circuits, hundreds of Linux servers and Cisco routers, and numerous redundant backhaul connections to payment processors and other associated private network destinations.
- Acted as the top tier technical escalation point for data center, network, security, or systems issues.
- Identified and arranged remediation of security vulnerabilities in network and server infrastructure.
- Installed, configured, and maintained SolarWinds software (NPM, NTA, SAM) for monitoring of critical network equipment and Linux/Windows servers.
- Managed data center operations, including power distribution, UPS service contracts, equipment installation, and cabling. Assured that all work adhered to defined standards.
- Managed enhancements to network and server infrastructure pertaining to PCI DSS compliance requirements.
- Coordinated hardware upgrade of core routers, switches and firewalls, including IPS implementation and segregation of customer traffic into multiple VRFs.
- Designed and implemented unique networks based on customer requirements, including associated technical documentation and Visio diagrams. This includes a custom network for a Fortune 100 financial institution's ATM machines, including private cellular APNs and associated MPLS connectivity via various carriers, as well as a redundant private WAN network for retailer's portfolio of 250+ stores.
- Developed software applications for use on a proprietary Linux-based router platform, with the primary focus on C and Bash scripting. This includes software for interfacing with Sierra Wireless 4G/LTE modules.
- Frequently interfaced with Sales and Solutions Engineering teams on new business opportunities, including attending meetings with existing or prospective customers.

Systems Administration Supervisor (2008 – 2011) / **Systems Administrator** (2006 – 2008)
OLM, LLC - Trumbull, CT
- Responsible for all technical aspects and security of 2 data centers and over 1,500 servers in a diverse 24/7/365 environment consisting primarily of RedHat/CentOS/Debian/Ubuntu Linux servers.
- Maintained Cisco network of 7206 routers, 6509 switches, 4xxx switches and over 100 29xx access switches.
- Configured BGP peering with 4 Tier-1 network providers, providing routing for 3 data centers. Monitored utilization on WAN circuits and load balanced ~1 Gbps of traffic to minimize usage costs.
- Implemented IPv6 network wide and established dual stack IPv6 BGP peering with Internet service providers.
- Monitored servers and network components via OpenNMS and Nagios with custom plugins.
- Developed a wide variety of custom applications, including a staff portal, client portal, remote reboot interface, Xen virtual server provisioning system and order processing system.
- Performed security threat analysis for hundreds of Linux servers. Planned and implemented solutions to protect servers from vulnerabilities and exploits. In some cases this involved performing custom back porting of C source code patches to legacy operating system versions.
- Performed troubleshooting of Linux issues, including advanced recovery techniques to restore operations after hardware failure.
- Performed hardware assembly and troubleshooting for a wide variety of Intel and AMD servers.
- Trained other staff members on proper technical procedures.
- Worked closely with Technical Services Manager on data center improvements and hardware orders.
- Provided clients with direct Tier-3 level support and worked closely with Technical Support staff.

Systems Administrator (2004 - 2006)
RP Design Web Services - Cheshire, CT
- Managed software, security, and overall operation of Linux servers, including planning and purchasing.
- Administered an office LAN, including Macs, Windows PCs, and Linux servers.
- Developed several web applications including an interface for administration of customer e-mail services.
- Coordinated with clients both in person and over the telephone to resolve day-to-day issues.
- Performed hardware maintenance on servers at co-location facility.