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Lifetime IT professional with almost 30 years of professional experience spanning the entire spectrum- Network Engineering (L2TP to MPLS, L3 Routing, Firewall, IPSEC/SSL VPN, Scanning and Monitoring); Linux Administration and Scripting (Bash and Python), IAM/kerberos solutions; Configuration Management/IaC (Ansible, Puppet), and Information Security. Currently working with infrastructure, architecture deployment topics with the Kubernetes ecosystem, Terraform, AWS CloudWatch, and returning to programming with Python.

------------------------- *Certifications:*

- CCNA Routing and Switching
- Amazon AWS Solutions Architect Associate
- EC-Council Ethical Hacker (CEH), Forensic Investigator (CHFI)

- CCNA CyberOps (InfoSec)
- Metro Ethernet Forum SDN/NFV Professional
- CompTIA CASP, Security+, Network+

------------------------- *Technical Areas:*

Networking: TCP/IP, Routing (RIP, OSPF, EIGRP, BGP), VPN (IPsec and SSL, DMVPN), enterprise WLAN through MPLS via cross-connects/ pseudowire. Packet capture, inspection/ analysis with Wireshark; testing with Nmap, Scapy, hping.
Firewall: IPTables, ACLs; pfSense; ASA/ASDM; Fortigate, etc.
Virtual Infrastructure: Some AWS and GCP; some VMware ESXi/NSX, Openstack.
Infosec: Monitoring traffic (Nagios, etc.); SIEM (Splunk, etc); Vulnerability assessment (Qualys, Nessus, etc.).
CI/CD, Infrastructure as Code: Ansible, Terraform, (some Puppet/ Chef/ Jenkins).
Cloud Native: Some AWS, GCP; Kubernetes, OpenShift, Istio, Helm, Prometheus, GitOps, etc.
Operating Systems: Linux (primarily, since 1999), Mac OS X, BSD, Windows Server (Active Directory, Group Policy).
Programming: Currently: Python, Bash, some PowerShell; legacy: C/C++, Java, PERL.

------------------------- *Employment History*

Network/SysAdmin/DevOps Consultant, Contractor
Mar 2019 to present - Freelance; Robert Half, K-Force, others
- Continued previous freelance consulting, (as mentioned below in 2015-2019) with more of a Cloud/DevOps emphasis; teamed with several firms to support clientele such as: ProLogic ITS, Premier Technology Solutions, and Cedar Park Medical.
- Introduced to programming machine learning and deep neural networks (Python, Tensorflow, NumPy/Pandas, Keras) with a project from the CEO of GenXComm.
- Networked with CEO of WeaveWorks; learned about managing multi-cloud Kubernetes, Ansible, etc., config files with GitOps (leveraging Git for quick rollback of 'source of truth' YAML/JSON' configs for quick configuration recovery).
- Consolidated technical writings; combined quick reference guides/ documentation on network, Linux, and infosec topics into two PDF volumes available for download on GitHub.
- Succeeded in installing VMware ESXi on a Mac Mini 2012 (unsupported hardware the company claims won't work) to run virtualized appliances of F5 and other enterprise-relevant VMs.
- Obtained AWS Solutions Architect Associate certification and refreshed knowledge on Active Directory.

Network Engineer II, Enterprise Managed Services Ops, Event/ Incident/ Problem Mgmt team
Jul 2018 to Feb 2019 - Charter Communications: Spectrum Enterprise
- Functioned as tier 3 and 4 assistance for advanced calls escalated by the enterprise tech support teams.
- Served as last line of support for field technicians on enterprise premise equipment (routers, firewalls, wireless controllers, etc.).
- Analyzed and repaired firewall filters, access lists, QoS configuration potentially causing network outage or bandwidth issues.
- Troubleshot and reconfigured layer 2/layer 3 circuits [VRF, MPLS, VPLS; xconnects, LACP, etc.].
- Supported services included DIA (direct internet access) internet provisioning, ELAN (Extended LAN) tunneling traffic from enterprise main site(s) to branch locations over MPLS/VPLS core to onsite router(s) at the customer premise(s); sometimes through other service providers. Ethernet over DOCSIS (EoD), Carrier EoD.
- Assessed the configuration of the following technologies/ equipment: Cisco 800, 1900, 2900, and 3900 series ISR's, ASR 1000's, ASA 5xxx's, Meraki, Fortigate; Juniper MX or Cisco 2921 at provider edge; Cisco Prime, Ruckus SCG wireless controllers, Cisco Wireless LAN Controllers (WLCs); RAD, ADVA fiber; IP video, QAM, channel insertion for video products.

Network Security Engineer: Systems Operations, Vulnerability Management
Oct 2017 to Jan 2018 - Experian Health
- Reported to the VP of IT Ops; coordinated with production control, change management, DevOps, etc.
- Infrastructure scanned with Qualys/Tanium/etc; output to Jira, Helix ALM/TestTrack for ticketing.
- Patched, scripted or upgraded to remove vulnerabilities on physical and virtual equipment in multiple data centers.
- Remediated Cisco/Dell/F5/etc., Linux servers (Ubuntu and Red Hat), Windows Server Windows VDI images.

Network Field Consultant
Jun 2017 to Sep 2017 - CompuCom
- Analysis and prompt resolution of network outages from customer premise border to internal endpoints.
- Assessed status of premise distribution room equipment - fiber to cat5e/6 converters, ODUs; PDU, routers, switches, firewalls, NAS, telephony gateway. Identified any issues and reconciled if necessary.
- Evaluated all site workstations for operational status, remediated if needed.
- Reported a non-technical status overview to site manager of activities performed and any scheduled upgrades, replacements.

Network/SysAdmin/DevOps Consultant, Contractor
Jan 2015 to Jun 2018 - Freelance; Robert Half, K-Force, others
- Racking, stacking, and wiring up data center equipment.
- Upgrading workstations (RAM, SSDs) from hospital offices, patient rooms and then re-provisioning in place.
- Configured, deployed LANs; then installed their member MacOS/Windows workstations.
- Performed security assessments; penetration tests, and vulnerability analysis of SMBs.
- Consulted on assessment of WiFi provisioning for a major conference (est. 6000 people).
- Technical writing: produced concise yet thorough overviews to replace "teach-to-the-test" literature. Topics covered include various network, Linux, and infosec items.
- Began investigating and practicing with Docker and Kubernetes/ Openshift (2016)

Departmental Executive Assistant
Aug 2006 to Oct 2014 - Austin Community College - Psychology, Sociology
- Consulting for Department Chair; provided faculty and staff support.
- Downtime allowed for investing time to professional development.
- Updated Linux strategy, applying RHCSA/RHCE topics as standard for equivalents in Debian-based Linux and BSD Unix.
- Refocused on network engineering topics such as Cisco technologies, subnetting, etc.
- Kept up-to-date on developments of BackTrack Linux as it restructured to become Kali Linux.

Systems Administrator
Feb 1999 to May 2006 - Texas Radiation
- Evaluated several versions and configurations of Linux for stability and suitability.
- Conducted system optimization and performance tuning on Linux systems.
- Reviewed and analyzed betas of BackTrack Linux (which later became the prominent security distribution Kali Linux).

Programmer/ Software Engineer
May 1999 to Feb 2001 - HumanCode (acquired by Sapient)
- Coded object-oriented programming in Lingo (Director) and ActionScript (Flash), PHP/MySQL.
- Upgraded to Java and C++, reached an intermediate level in both.
- Contributed to the resolution of company-wide IT support issues.

Computer Programmer/ Network Services
Jun 1994 to May 1999 - University of Texas at Austin
- Co-managed all labs provided by College of Education.
- Facilitated network infrastructure and planning.
- Scripted configuration management for labs' workstations.
- Implemented group policies; administered user/group memberships on Windows Servers.
- Performed supervision and training to all lab staff.
- Provided faculty IT support throughout the college.

------------------------- *Education*

May 1996 to May 2000 - University of Texas at Austin
Information Systems and Computer Science coursework (non-degree plan)

May 1985 to May 1989 - LBJ Science Academy (secondary school)
College level BIO I & II, CHEM, PHYS. Honors english, history, and mathematics

Keywords: Network Engineer, Systems Administrator, Network Security Engineer, Security Engineer, Linux Systems Administrator, Linux Network Administrator, Linux Systems Engineer, Unix, CCNA, CEH, CHFI, CompTIA, Red Hat, ISO, TCP, IP, OSI, Layer 2, L2, L3, Layer 3, route, Routing, Switch, Load Balancing, Nessus, pfSense, Nagios, Perl, Python, Agile, Scrum, NIDS, HIDS, SQL, Git, Github, Juniper, Alcatel, VMware, vSphere, Citrix, ESX, NSX, XenServer, vCenter, KVM, Hypervisor, Virtualization , DNS, DHCP, IOS, IOS-XE, NX-OS, ASR, ISR, API, SOA, REST, high-availability, NAS, SAN, metrics, automation, performance, monitoring, authentication, authorization, confidentiality, integrity, enterprise, deployment, troubleshooting, supervision, analysis, LDAP, LAN, WAN, OSPF, BGP, EIGRP, STP, analytics, vulnerability assessment, incident response, OWASP, DAST, SAST, penetration testing, disaster recovery, red team, Metasploit, MSF, PAP, CHAP, PKI, LXD, LXC, trunk, traffic, policy, regulatory compliance, optimization, SLA, RPM, APT, telephony, QoS, 802, topology, cabling, policies, ASA, ASDM, CUCM, SIEM, MPLS,