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Lifetime IT professional with 30 years of professional experience spanning the entire spectrum-network engineering (L2TPv3/MPLS, L3 routing, firewall, IPSEC/SSL VPN, scanning/ monitoring); Linux administration/ scripting (Bash, Python), IAM/kerberos solutions (FreeIPA); configuration management/laC (Ansible, Puppet), and information security. Currently working to get increasingly cloud-native with infrastructure, architecture deployment with the Kubernetes ecosystem, Terraform, AWS CloudWatch; returning to programming with Python.

----- **Certifications:**

- CCNA Routing and Switching
- AWS Solutions Architect Associate
- Metro Ethernet Forum SDN/NFV Professional
- CCNA CyberOps (InfoSec)
- CompTIA CASP, Security+, Network+
- EC-Council Ethical Hacker (CEH), Forensic Investigator (CHFI)

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

Networking: TCP/IP, Routing (RIP, OSPF, EIGRP, BGP), VPN (IPsec and SSL, L2TPv3/MPLS L3VPN, DMVPN), spine-leaf VXLAN switching, Cisco APIC, Cisco WLAN controllers, Packet capture/ analysis with Wireshark; Nmap, Scapy, hping. Cisco, Juniper, Dell, HP, Aruba

Firewall: IPTables, ACLs; pfSense; Cisco ASA; Fortigate, etc.

Virtual and Data Center Infrastructure: AWS/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 (since 1999), BSD, MacOS (since 1994) , Windows (since 1994; Active Directory, Group Policy).

Programming: Currently: Python, Bash, some PowerShell; legacy: C/C++, Java, PERL.

----- **Employment History**

Network/SysAdmin/DevOps Consultant

Mar 2019 to present - Contractor; Robert Half, K-Force, others

- Continued previous freelance consulting, (as mentioned below in 2015-2018) 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.
- Working for the client ARM- racking, stacking, and wiring up data center equipment. Upgrading storage and RAM in HPE Proliant, Apollo; Dell EMC PowerEdge, Isilon; Huawei Taishan; and NetApp chassis.
- Introduced to programming machine learning and deep neural networks (Python, Tensorflow, NumPy/Pandas, Keras) with a project from the CEO of GXC.
- Consolidated technical writings; combined quick reference guides/ documentation on network, Linux, and infosec topics into two PDF volumes available for download on GitHub. Currently investigating publishing options.
- 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 fast configuration recovery).
- Obtained AWS Solutions Architect Associate certification and refreshed knowledge on Active Directory, EVPN-VXLAN over BGP.
- 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.

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.
- Troubleshoot and reconfigured layer 2/layer 3 circuits [VRF, MPLS/VPLS; L2TPv3/xconnects].
- 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

Sep 2017 to Feb 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 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

Jan 2015 to Jun 2018 - Contractor; through 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.
- Employed Bash/PERL/Python scripting as needed
- Reviewed and analyzed betas of BackTrack Linux (later became Kali Linux).
- Kept up-to-date on Windows Server and Active Directory issues

Programmer/ Software Developer

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

- Facilitated network infrastructure and planning.
- Scripted configuration management for labs' workstations.
- Implemented group policies; administered user/group memberships on Windows Servers.
- Co-managed all labs provided by College of Education; 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 pre-calc