



SUMMARY

Over 15 years of industry experience supporting organizations in the public and private sector. Strong networking background with a current focus on assisting organizations with cloud networking, network security and network automation.

CITIZENSHIP STATUS / CLEARANCE STATUS

US Citizen / Public Trust Level 5 Government Clearance (SSA, FDA, SEC, TREAS, OPM)

ACADEMIC QUALIFICATIONS

A.S. Information Systems, Community College of Baltimore County

CERTIFICATIONS

- Cisco Certified Internetwork Expert Enterprise Infrastructure (R&S)
- Cisco Certified Network Professional Security
- Palo Alto Networks Certified Network Security Engineer
- HashiCorp Certified Terraform Associate
- AWS Certified Advanced Networking Specialty
- Azure Network Engineer Associate

SKILL SETS

Cloud:	AWS/Azure
OS:	Windows, Linux (RedHat/Centos, Ubuntu)
Coding/IaC:	CloudFormation, Terraform, Ansible, Go and Python (github.com/quipology)

WORK EXPERIENCE

Network Solid (September 2014 – Current)

Clients: Confidential, but all were very large enterprise commercial companies.

AWS/Azure Cloud related tasks included:

- Evaluated technology choices supported by proof-of-concept exercises to make impactful decisions about systems and security — their edge cases, failure modes, and lifecycles.
- Partnered with engineering teams, product managers and the community of architects to identify patterns and platform enablers across the organization.
- Acted as an advocate and thought leader of cloud network connectivity, standards, and controls and as an enabler to the business while managing risk appropriately.
- Implemented On-Premises connectivity to VPCs and VNets via VPN (Static + BGP) and Direct Connect/Express Route.
- Within AWS I've implemented NAT and Security Groups for EC2 instances; Implemented NACLs against subnets. Within Azure, I've implemented NSGs, Azure Firewall and NVAs.
- Deployed Transit Gateway (TGW), TGW attachments and implemented TGW route tables for traffic segmentation.
- Project tasks also included the setup and management of virtual appliance instances/NVAS inside VPCs/Vnets (Palo FWs, Palo Alto, Cisco FTDs, Fortigates).
- Written Lambda functions for automating actions based on CloudWatch events (ex. auto-tagging EBS volumes for AWS Backup purposes.)
- Written CloudFormation templates, Terraform configs and Ansible playbooks for deploying infrastructure
- Written customized automation scripts using python and Go (from scratch) for AWS deployments which also integrated with 3rd party applications (can provide scripts as proof – check my github, link above).
- Reported unresolved security exposures, misuse of resources, and noncompliance situations using defined escalation processes. Manage security incidents.
- Utilize cloud-based APIs when appropriate to write network/system level tools for securing cloud environments.

Enterprise and Datacenter related tasks included:

- Configuring Site-to-Site VPNs on ASA, SRX and Cisco IOS/IOS-XE to connect to third party entities
- Platform migration (migrating from one firewall platform to another, ex. ASA -> SRX, etc. Or migrating from Cisco to Juniper (routers & switches), etc.)
- Troubleshooting & Implementing Firewall solutions (Cisco ASA, Juniper SRX, Palo Alto, Fortigate, CheckPoint & Sonicwall)
- Performing routing, switching and firewall changes during the approved change windows.
- Configured and managed Arista switches for client DR testing.
- Creating Python scripts to automate daily networking tasks (Ex. auto config generation, retrieving information from network devices, parsing data, etc.)
- Created tool (via Go) to automate rule migration from Microsoft Forefront Threat Management Gateway (TMG) to F5 LTM rules. The tool I wrote extracted the XML configs from TMG to a CSV (for stakeholders); then from there, tool would export TMG configs to F5 AS3 JSON.
- Designed and implemented a DMVPN/EIGRP solution for a Canadian company that opened a new branch location in another country.
- Configuring/building routers, switches, and firewalls (ASA/SRX/Fortigate/Palo/Checkpoint/Sonicwall) out of the box for new site builds.
- Interacted with device APIs. Leveraged Django framework for developing UI for internal tools and APIs.

VERSA Integrated Solutions/HHS(FDA) contract (February 2014 – September 2014)

Network Architect

As a member of the engineering team, I support the internal corporate network as well as numerous government agencies including HHS, NIH & FDA. My daily tasks consist of:

- Worked closely with security architects to understand goals, determine security requirements, design and implement application and data security solutions.
- Coordinated with infrastructure and application development project teams to deliver solutions collaboratively, ensuring that corporate security policy, standards and industry best practices are met.
- Drove the selection, POC, implementation and operational deployment of new security technology solutions through the delivery pipeline to ensure the confidentiality, integrity and availability of business data.
- Oversaw routing & switching projects that included implementing BGP, OSPF & HSRP
- Conducted site surveys
- Assisting junior staff with VoIP deployments by configuring all of the routing & switching devices
- Implemented and managed the organizations ASA SSL VPN solution
- Consulting management on the client's routing & switching designs/solutions

Cisco Systems (June 2012 – December 2013)

Network Consulting Engineer

As a member of Cisco's US Public Sector Advanced Services Team, I provided services and support to Social Security Administration (SSA) in Baltimore, MD. Daily tasks included the following:

- Provided SSA with Cisco best practices
- Provided proactive code/bug scrubs of all versions of IOS running in their production
- Provided EoX reports
- Provided zero day PSIRTs
- Provided high-level support to Centurylink for SSA's 3800 to 3900 migration
- Assisted with resolving and consulting SSA on numerous layer2 issues that in some cases caused unwanted downtime in their production environment
- Consulted the customer on various LAN optimization strategies and techniques

SRA International/Office of Personnel Management Contract (May 2011 – June 2012)

Senior Network Engineer

My position consisted of supporting local and remote OPM sites. My daily tasks as a member of the network team included:

- Upgraded local access switches to POE for the new VoIP deployment
- Troubleshoot any Switching and Routing issues that arose in the production environment (which were mostly Layer2 related)
- Monitored for oversaturated WAN links to remote sites including the ISP/Internet links

Blue Cross Blue Shield Association (June 2010 – May 2011)

Network Engineer II

My position consisted of supporting and configuring routers/switches that were part of Blue Cross Blue Shield's service provider network (BluesNET). My daily tasks as a member of the network team included:

- Implemented EIGRP, BGP and HSRP on routers that resided in the production environment
- Configured routers and switches to be used by the different Blue Cross Blue Shield plans
- Responsible for configuring, testing and troubleshooting encryption and GRE tunnels on all WAN routers

- Tier II troubleshooting of Switching and Routing issues that arose in the production environment
- Lead in Disaster Recovery testing for the Blue Cross Shield plan's connectivity to the Bluesnet network

L3 (L-3 Communications)/KBM Group (November 2009 – June 2010)

Network Engineer

My position consisted of supporting and maintaining Maryland Department Of Transportation's enterprise network. My daily tasks as a member of the network team included:

- Assisted with configuring/implementing OSPF configurations at remote locations
- Configured and installed routers and switches to be used by the client
- Troubleshooting of all Switching and Routing trouble tickets that were submitted by end user

Labcorp (Laboratory Corporation Of America) (August 2004 – November 2009)

Senior Network Technician

My position consisted of daily travel to various client facilities installing, supporting and networking computer systems for Labcorp's client base within Baltimore Metro Area. Below are daily tasks that I performed in this position:

- Provide hardware and software recommendations to perspective customers
- Work with clients to implement customized solutions to business problems which referenced the OSI model
- Provide support for all routers/firewalls that reside in Labcorp's patient service centers
- Assist with planning, implementing, and testing of new networks
- Configure and install workstations to be used by clients
- Troubleshoot LAN connectivity problems and hardware issues

TOOLS/APPLICATIONS

Applications: Office 365, Jira, Confluence, MS Teams, Slack
 Version Control: GitLab/GitHub, Bitbucket
 Ticket Systems: HP Service Manager (HPSM), Remedy, ServiceNow, Maximo
 IPAM: InfoBlox, Proteus BlueCat Address Manager, Solarwinds
 Network Tools: Solarwinds, Cacti, Wireshark, PRTG Network Monitor
 SIEM: Splunk
 Firewall Mgmt Tools: Adaptive Security Device Manager (ASDM), Panorama, Fortimanager
 Virtualization: VMware ESXi, VMware vSphere, KVM, EVE-NG