

RYAN BERROA

Network Reliability · Cloud
Networking

CONTACT

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CERTIFICATIONS

CCNP – Cisco Certified
Network Professional

CCDP – Cisco Certified
Design Professional

CCNA – Cisco Certified
Network Associate

CORE PLATFORMS

- Palo Alto / Panorama
- Arista EOS / CVP
- Juniper SSR / Mist
- Azure / OCI / AWS
- Cisco ISR / ASR
- Linux / containerlab
- Sentinel / SolarWinds

AUTOMATION

- PowerShell / Az
- Python
- Bash / Shell
- Panorama XML API
- KQL / Juniper Mist API

PROTOCOLS

- BGP / OSPF / EIGRP
- EVPN-VXLAN / VARP
- MLAG / LACP / VLAN
- BFD / GRE / DMVPN
- MPLS / SD-WAN
- IPsec / DNS / DHCP

PROFESSIONAL SUMMARY

Network reliability engineer with 14+ years in network operations (20 years in IT). Proves a change before it ships and measures instead of guessing: automated testing gated an Azure DR cut, 486 million flow records sized its rules, and repeat outages were traced to vendor defects through syslog and flow data. Runs incident response, change windows and capacity for a multi-region Azure estate, 146 Palo Alto firewalls and a 71-site Juniper SSR SD-WAN. Ready for a 24/7 on-call rotation.

CORE COMPETENCIES

Routing & Fabric: BGP, OSPF, EIGRP, BFD, GRE / DMVPN, MLAG / LACP, EVPN-VXLAN, MPLS, SD-WAN (Juniper SSR / SVR)

Cloud Networking: Azure hub-and-spoke transit, VNet peering, UDR, NSG, ExpressRoute, Private Endpoint, Network Watcher; OCI, AWS

Reliability & Automation: Incident response, root cause, change management, capacity monitoring; PowerShell, Python, KQL (Sentinel / Log Analytics), flow logs

PROFESSIONAL EXPERIENCE

Senior Security Engineer | **Flowers Foods** *April 2023 – Present*

- Led the Azure DR isolation change for a Prod / DR region pair (hub transit VNet peering, Palo Alto VM-Series): cloned and flipped route tables and NSGs so peerings stayed up and every step could be reverted; proved it with a read-only rehearsal and automated pre-change tests, then executed on schedule in an overnight window
- Sized the isolation allow-lists from measured traffic: queried 486 million flow records (68.8 TB over 30 days) until zero observed flows were uncovered; validated DNS readiness across 47 VNets and 1,316 NICs
- Built a read-only capacity and health dashboard for 8 Azure NVAs (5 Palo Alto VM-Series, 3 Juniper SSR) tracking peak flows against the 1M-flow accelerated-connections tier; escalated through Microsoft to Azure Host Networking ahead of the MANA rollout
- Led multi-vendor root cause: tied a repeat HA firewall outage to a documented PAN-OS failover defect using Sentinel syslog (BGP flaps between Palo Alto and Juniper SSR in the same window) and set the PAN-OS upgrade as the remediation
- Proved an SD-WAN load-balancing failure (9 config pushes, zero path change) was a single-next-hop Azure UDR against session-pinned SVR, confirmed across all 71 spoke sites, and documented the Route Server / load-balancer fix
- Run Panorama change management for 146 firewalls in 76 template stacks; scripted a DHCP DNS cutover across 401 scopes (802 commands) and built XML API tooling to trace config references
- Built Azure side, routing and cutover for AT&T NetBond (MPLS to Azure); retired 2 data centers

Senior Network Security Engineer | **National Air Cargo** *October 2022 – March 2023*

- Built Azure Palo Alto VM-Series enforcement for inbound, outbound and east-west traffic with BGP, OSPF and HA; designed VPN for global operations
- Built the Arista EOS fabric: MLAG with LACP port-channels, VLANs and SVIs with VARP gateways, BGP and OSPF, and EVPN-VXLAN overlays, managed through CloudVision and eAPI
- Configured and tested a Palo Alto PA-850 HA pair on the Arista MLAG pair, including failover testing (recorded demo: youtu.be/qj6XzMPV8To)

Network Security Engineer | **Brown and Brown Insurance** *April 2021 – October 2022*

- Ran Palo Alto, SD-WAN and Azure VNet / NSG / VPN operations; led M&A network integrations

Lead Systems Network Engineer | **Amazon** *June 2020 – April 2021*

- Built Cisco campus networks and MDF / IDF for logistics sites; Azure VPN and ExpressRoute connectivity; escalation point for network incidents

EARLIER CAREER (2012 – 2019)

Brambles / CHEP, Sr. Systems Engineer · HealthFair, Network Systems Engineer · Jobsite Network Engineer · Cisco Systems, TelePresence Network Engineer

- TCP/IP, QoS, DMVPN, GRE, OSPF, EIGRP, BGP and MPLS on Cisco ISR / ASR; IP / MPLS operations and Tier-2 escalations; SolarWinds circuit monitoring and LTE failover

LAB & PROJECTS

- Containerlab on an OCI Arm Linux instance: FRR EVPN-VXLAN leaf-spine (eBGP unnumbered underlay) and a dual-ISP BGP edge with BFD, local-pref, prepend and route-leak drills
- Personal OCI + Cloudflare platform: self-healing monitoring and an LLM assistant on Workers