

# Sarkis Der Wartanian

## Developer & NOC Specialist (ISP Infrastructure • Automation • QoS • Monitoring)

Lebanon (Open to Remote Worldwide) | [sdv@sdvtech.xyz](mailto:sdv@sdvtech.xyz) | +961 71 399 210 | LinkedIn: <https://www.linkedin.com/in/sarkis-derwartanian-4778aa2a2> | Portfolio: <https://www.sdvtech.xyz>

### Professional Summary

Developer and NOC Specialist with ISP and IT experience. I build automation and tooling for monitoring, traffic shaping, backups, and customer diagnostics. I have hands-on experience with MikroTik (RouterOS/SwOS), Juniper EX4600, pfSense, OPNsense, Linux servers, accel-ppp, tc, iptables/ipset, Grafana, Zabbix, and scripting (Bash/Python/Go). I always read documentation and I troubleshoot critically using all tools available.

### Certification

Cisco Certified Network Associate (CCNA 200-301), ID: ee69bf4481664eb89913dcdde8e0c31c

### Experience

CloudSP (Internet Service Provider) — Developer & NOC Specialist / Network & Infrastructure Engineer

February 2013 – February 2026

- Configured IPs, VLANs, VLAN interfaces, Bridges, Bridge VLANs, DHCP client/server/pools, WireGuard VPN, L2TP, MPLS, SNMP, logging (remote syslog), hotspot with external RADIUS server (CRM), firewalling (RouterOS + Linux basically), queuing, and wireless.
- Worked with MikroTik CCRs as routers (routing + NAT/firewall) for serving L2TP or MPLS clients and QinQ.
- Worked with MikroTik CRSs as switches using the bridge (hardware accelerated) and MikroTik CSSs for building-to-building extensions using trunk and untagged for customers.
- Worked with MikroTik wireless solutions such as LDF / 912 / 911 for Layer 1 reachability. Experience with Mimosa, Cambium, and Ubiquiti wireless solutions.
- Juniper EX4600: transit shaping and routes to Linux servers running accel-ppp.
- Linux routing/firewalling with ip route and iptables rules like CGNAT and dropping invalid TCP; marked CDN/cached subnets and ports using ipset + mangle (skbmark), then shaped using radattr integrated with the RADIUS server.
- Built a LANCache server as well as setting up Apple Content Caching.

- Automation with SSH and HTTP(S) sessions for devices that only have a GUI; scheduled with crontab.
- Used Zabbix triggers to run custom scripts that SSH into another device and activate a firewall policer for certain subnets on Juniper, with Telegram alerts.
- Built a Telegram bot for communicating with Grafana and receiving custom graphs at custom intervals from folders/dashboards/panels using Image Renderer.
- Built a script that sends Juniper interface traffic graphs from Grafana (past 24h) with captions mapped to the panel title in dashboard JSON; scheduled with crontab.
- Built a per-customer bytes counter per CDN marking while accounting for service type from RADIUS: used Go to scrape bytes from ``tc -s -d class show dev ppp*``, handled PPP interface changes on session expiry, read attributes from ``/var/run/radattr.ppp*`` (speed/service tags), exposed metrics via TCP, and displayed results in a web UI for top-user diagnostics.
- Built a custom web UI containing networking tools integrated with the RADIUS server to help customer support perform fast diagnostics before escalation.
- Set up backups to a QNAP NAS via SFTP/SMB, uploaded to AWS S3 using rclone, and send Telegram notifications when backups are completed.
- Made custom alerts for panels/values using Zabbix + bash scripts and Grafana alerts.

Microfolie Computers — Network and Systems Engineer (Full-time, On-site) — Jounieh, Lebanon

2018 – 2023

- Authored standardized configuration templates and provisioning workflows for the field team, ensuring unified security and performance standards across wireless edge deployments and servers, switches, and routers.
- Built servers and custom computers for companies.
- Ensured systems were connected and had access restrictions for certain departments from their servers.
- Ensured everything was well documented.
- Served as the Tier 2/3 escalation point for critical outages, using deep packet analysis to resolve Layer 1 and Layer 2 faults and server-side faults.
- Did remote troubleshooting with customers and resellers, ensuring resolution or escalation when needed.

CompuWorld — IT Technician (Full-time, On-site)

2015 – 2017

- Extracted maximum ROI from legacy hardware through kernel-level optimization and virtualization.
- Managed the security posture of customer-facing servers: SSH key-based authentication, firewall hardening, and automated vulnerability patching.
- Resolved complex Layer 2/Layer 3 issues across mixed environments using deep packet inspection (Wireshark/tcpdump) to find root causes missed by standard monitoring.
- Set up bare metal hardware: installed operating systems and programs, performed updates/upgrades, repairs, and removed malicious software.
- Used CH341A hardware programmers for out-of-band BIOS/firmware recovery on bricked devices by interfacing with SPI flash to bypass corrupted bootloaders and restore devices considered unrecoverable by standard support.

## Technical Skills

### Networking / ISP

- IP routing, VLANs/bridging, DHCP, WireGuard, L2TP, SNMP, syslog, QoS/traffic shaping, CGNAT concepts, BGP route-based marking (at an ISP edge).

### Linux

- Ubuntu Server / Debian-based; Fedora familiarity; CentOS.
- ipset, iptables, tc, accel-ppp, mdadm, ZFS, Docker/docker-compose, bash, tcpdump, nmap, FreeRADIUS, SQLite/PostgreSQL.

### Windows

- Hyper-V, WSL, Wireshark, Zenmap, WinSCP (SSH keys), Winbox, The Dude, diskpart, HDTune, Recuva.

### Firewalls / Platforms / Virtualization

- pfSense, OPNsense, OpenWrt, MikroTik CHR, FreeNAS, Unraid, Proxmox, VMware ESXi.

### Development

- Go, Python, shell scripting, HTML/CSS, JSON/YAML; building internal tooling, web UIs, collectors/exporters, and automation.

## **Hardware**

- Building custom computers; server upgrades/firmware; iDRAC/iLO; RAID pools (embedded RAID, ZFS, mdadm, Windows volumes); cabling (Ethernet, SFP+ DAC, fiber).