

Sarkis Der Wartanian

Senior Network & Systems Infrastructure Engineer

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CERTIFIED: CCNA 200-301 [ID: ee69bf4481664eb89913dcdde8e0c31c]

PROFESSIONAL SUMMARY

Senior Network & Systems Infrastructure Engineer with experience across ISP infrastructure, Linux servers, routing, switching, firewalling, virtualization, monitoring, automation, and internal tooling. Strong background in BGP, PPP subscriber environments, CGNAT, traffic control, backup and recovery systems, observability platforms, and operational support tooling, with additional experience in AWS, Docker, and Cloudflare.

TECHNICAL ARSENAL

Networking / ISP: BGP, VLANs, IRB, DHCP, WireGuard, L2TP, MPLS, SNMP, sFlow, NetFlow, QoS, traffic shaping, CGNAT, DNS, FreeRADIUS, accel-ppp

Linux / Systems: Ubuntu, Debian, Fedora, CentOS, iptables, ipset, tc, mdadm, ZFS, Docker, Docker Compose, bash, tcpdump, nmap, Prometheus

Platforms / Infrastructure: Proxmox, Ceph, Proxmox Clusters/HA, Hyper-V, pfSense, OPNsense, OpenWrt, MikroTik CHR

Operations / Services: ISPConfig, phpMyAdmin, Postfix, Graylog, NetBox, SMB, SFTP, WSUS, Lancache

Cloud / Supporting Experience: AWS (EC2, S3, IAM, Lambda), Cloudflare API, Dockerized services, DNS automation

Development / Automation: Go, Python, Bash, PowerShell, Flutter, Dart, Kotlin, JavaScript, SQL

AI Tools: ChatGPT, Gemini, Claude; practical use of AI-assisted research, troubleshooting, scripting support, documentation, and output validation.

PROFESSIONAL EXPERIENCE

Senior Network & Systems Infrastructure Engineer

Feb 2023 - Feb 2026

CloudSP - ISP

Worked across core networking, Linux subscriber infrastructure, and supporting automation for ISP service delivery.

- Established BGP peering with CDN providers and upstream transit providers.
- Designed and implemented VLAN and IRB Layer 3 interfaces to support BGP peering, customer aggregation, and integration with a Linux-based CGNAT router.
- Applied Junos firewall filters across multiple families, including inet and ethernet-switching, for traffic control at both Layer 2 and Layer 3.
- Operated Linux servers running accel-ppp for PPPoE, L2TP, and related subscriber termination services.
- Worked on Linux NAT and routing servers using iptables, ipset, and tc for subscriber traffic handling, classification, and policy enforcement.
- Set up and maintained supporting operational services including ISPConfig, phpMyAdmin, Postfix, Graylog, and NetBox.
- Built internal exporters, scripts, and automation tools for telemetry collection, alerting, operational visibility, and recovery workflows.
- **Automated Configuration & Backup Recovery:** designed and maintained backup and recovery automation for network and server infrastructure, including scheduled backups, retention handling, and off-site replication.
- **Integrated Network Monitoring Suite:** developed an observability environment using Grafana, Zabbix, custom exporters, dashboards, and messaging-based alert delivery to improve visibility into interfaces, BGP status, traffic patterns, and subscriber activity.
- **Traffic Intelligence & Custom Accounting Portal:** built systems around Linux tc, PPP session state, and RADIUS attributes to separate subscriber traffic by service type and provide support teams with internal tools for checking customer traffic, latency, and usage during troubleshooting.

Systems & Network Infrastructure Engineer

2018 - 2023

Microfolie Computers

- Designed and deployed complete infrastructure and networking environments for companies.
- Deployed Proxmox on custom-built computers and vendor platforms from HP and Dell, including clustered environments, Ceph-backed storage, and high-availability planning.
- Configured passthrough for multiple NICs to virtual machines, including pfSense and OPNsense firewall deployments.
- Configured TP-Link enterprise switches with VLANs and SVIs to separate departments and enforce network segmentation.
- Created firewall rules to allow or block access to services and machines for different employees and departments.
- Set up Cloudflare Tunnel with access control, network policies, and security rules for remote access to hosted services.
- Implemented internet access redundancy using 4G connections as failover.
- Set up SMB and SFTP network shares using Ubuntu Server.
- Deployed and managed a Lancache system to locally cache HTTP content and reduce external bandwidth usage.
- Provided employee training, support, system upgrades, troubleshooting, and scheduled backups for configurations, software platforms, and databases.

IT Systems Technician

2015 - 2017

CompuWorld

- Built custom computers and installed operating systems, drivers, software, and endpoint security tools.
- Removed viruses and malware from infected systems using tools such as Malwarebytes and HitmanPro.
- Recovered data from failing hard drives and corrupted operating system installations using recovery tools such as HirenBootCD and bad-sector diagnostics with HD Tune.
- Used a CH341A programmer to recover corrupted BIOS chips by flashing known-good BIOS image files.
- Set up Windows Server systems as hypervisors and storage servers using onboard RAID and software RAID.
- Recommended system components based on customer needs, compatibility, and budget.
- Provided remote support using TeamViewer and AnyDesk to resolve software, hardware, and operating system issues.
- Deployed and managed a WSUS server to locally cache and distribute Windows updates, reducing external bandwidth usage.

PERSONAL PROJECTS

EC2 Service Controller

Flutter / Android / AWS EC2 / Docker / Cloudflare API

- Built an Android mobile application for managing an on-demand AWS EC2 environment and reducing unnecessary cloud runtime.
- Integrated controlled EC2 start/stop actions, Docker container health checks, Cloudflare CNAME synchronization, and live log access into one operational workflow.
- Automated DNS target updates when the EC2 public endpoint changes after startup, allowing the service domain to stay aligned without using a static Elastic IP.

Hybrid Media Engine

Flutter / Kotlin / GeckoView / ExoPlayer

- Engineered a custom Android media application with hardware-accelerated Picture-in-Picture, background audio, and hybrid playback behavior.
- Used GeckoView to bypass standard mobile web restrictions and support native authentication flows not allowed in regular WebView implementations.
- Built a bandwidth-aware handoff model between embedded web playback and native ExoPlayer, with native media control handling through Kotlin and Flutter method channels.