

Julio Cesar Lapaca Martínez

Network & Telecommunications Engineer |

Expert in Infrastructure, Cybersecurity and Cloud

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Professional Summary

Highly skilled and results-oriented Network Telecommunications Engineer with over 9 years of experience in the financial sector. Expert in network security, high-availability infrastructure reliability, infrastructure automation, and cloud computing (AWS). Proven track record of leading strategic projects to enhance the performance and security of mission-critical infrastructures.

Technical Skills

- **Networking:** Design and administration of enterprise networks, BGP, EIGRP, OSPF, SD-WAN, Cisco (ISE, WLC, ASA, FTD), Fortinet (FortiGate), Load Balancers (ADC).
- **Cloud Computing:** Hybrid infrastructure design (AWS), VPC, Transit Gateways, VPN, and cloud migration.
- **Security:** Perimeter protection, NGFW implementation, Network Access Control (NAC), and incident response.
- **Automation & NetDevOps:** Python scripting, Nornir, Git, CI/CD (GitHub Actions), and NetDevOps.
- **Virtualization & Containers:** Kubernetes, Docker, Linux administration, Windows Server, Proxmox Virtual Environment Administration and Proxmox Backup Server.
- **Observability & SRE Tools:** SolarWinds, Grafana, Prometheus, Zabbix and LibreNMS.

Professional Experience

[Banco Ganadero S.A.](#) - Network and Telecommunications Administrator (February 2017 - Enero 2026)

Technical leader for nationwide network infrastructure, managing 200+ network devices for 1,300+ corporate users.

- **Disaster Recovery:** Architected and deployed two active-active data centers, achieving a **Network RTO of 40 seconds**.
- **Infrastructure Resiliency:** Enhanced disaster recovery capabilities by implementing an alternate datacenter with an **RTO of 10 minutes**.
- **Hybrid Cloud:** Engineered a secure hybrid network between **AWS, and on-premise** private clouds using Transit Gateways and VPNs.
- **SD-WAN Migration:** Led the nationwide migration from traditional WAN to **SD-WAN technology**, improving application routing and network flexibility.
- **Security Hardening:** Designed a national perimeter protection system with FortiGate NGFWs and implemented Cisco ISE, **reducing unauthorized access incidents by 100%**.
- **Network Automation:** Developed a **Python-based automation system** for equipment configuration, significantly reducing manual errors and deployment times.

- **Scalability:** Orchestrated the migration from p2p optical links to a Metro Ethernet network and deployed infrastructure for **25+ new bank offices using automated templates.**

Grupo Empresarial Lafuente - Network and Telecommunications Analyst (June 2016 - December 2016)

Nationwide network monitoring. Design, coordination, and implementation of network projects at WAN, MAN, and LAN levels, as well as configuration, administration, and maintenance of network equipment.

- Designed and implemented WAN/MAN/LAN infrastructure for remote offices of Techo S.A. and Pahuichi Ltda.
- Deployed and managed PRTG network monitoring and Elastix-based IP telephony systems

Fondecó - IT Analyst (October 2015 - March 2016)

- Administered firewalls, routers, switches, and access points while providing internal user support.

Education & Technical Specialization

- **B.S. Network and Telecommunications Engineering** | Universidad Privada de Santa Cruz (UPSA) | 2015
- **Kubernetes Administration Training** | KodeKloud | 2024
- **AWS Advanced Networking Training** | learn.cantrill.io | 2024
- **AWS Solutions Architect Associate Training** | learn.cantrill.io | 2021
- **Advanced Network Automation with Python Training** | CBT Nuggets | 2021

Languages

- **Spanish:** Native
- **Russian:** B2 (Upper-Intermediate)
- **English:** B1 (Intermediate)