Daniel **Serrano Marín**

Systems & Network Administrator → DevOps / Cloud · AWS · Kubernetes · Terraform · CI/CD

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Location : Jerez de la Frontera, Spain (open to remote)
Info : Driving licence



Systems and network administrator running production infrastructure since 2024 : 35+ client networks (MikroTik, Fortinet, VPN) and Linux servers on AWS. Outside work I built and maintain the full platform around an open-source tool of my own : infrastructure as code, Kubernetes, continuous deployment with automatic rollback, keyless AWS access (OIDC), and monitoring with alerts.

Skills

In production :	**AWS (EC2, VPC, Lambda, EventBridge, CloudWatch)**, **Linux**, **Docker**, **Bash**, MikroTik, Fortinet, VPN (WireGuard, SSTP), NACLs and Security Groups
In projects :	**Kubernetes (k3s)**, **Helm**, **Terraform**, **GitHub Actions**, **Jenkins**, **Prometheus**, Grafana, Loki, AWS S3/SNS/IAM (OIDC), Proxmox, Python, pytest

Professional Experience

Oct 2024 – Present

Systems & Network Administrator, Cadifone, Jerez de la Frontera, Spain

- Keep MikroTik networks and Fortinet firewalls available and secure for 35+ clients, with remote access over VPN (WireGuard, SSTP).
- Deploy and administer Linux servers on AWS EC2, configuring VPC, NACLs and Security Groups.
- Designed an automated AWS backup system for the PBX systems of 10+ clients, migrating their infrastructure from on-premises.
- Automate infrastructure tasks with Bash and AWS Lambda, scheduled through EventBridge.
- Implemented AWS CloudWatch monitoring for logs, metrics and alerts.
- Manage and deploy applications with Docker.

Linux | Bash | AWS EC2/VPC/Lambda | CloudWatch | Docker | MikroTik | Fortinet

Projects

2026 – Present

Network Topology Scanner + self-hosted DevOps platform, Personal open-source project, github.com/danielsm107/network-topology-scanner

- Python network scanner (Nmap, SNMP) published on PyPI and as a multi-arch image on GHCR; 600+ tests and CI with linting, Trivy, terraform test, helm lint and promtool.
- **Infrastructure as code** : Kubernetes (k3s) VM on Proxmox with Terraform and cloud-init, state in S3; AWS resources applied by GitHub Actions through OIDC, with no stored keys.
- **Continuous deployment** : Jenkins in the cluster deploys every release with Helm, verifies it with helm test and rolls back automatically; rehearsed by forcing failures.
- **Observability and backups** : Prometheus, Grafana and Loki, Telegram alerts and an external watchdog that fires if the monitoring itself goes down; S3 backups with a tested restore.

Python | Docker | Kubernetes | Helm | Terraform | GitHub Actions | Jenkins | AWS | Prometheus | Grafana | Loki

2024 – 2025

License Plate Recognition Access Control (LPR), Capstone Project (Vocational Training), GitHub : danielsm107

- Access control on a Raspberry Pi with OpenALPR, a Flask + MySQL backend with users and roles, real-time events (Socket.IO) and a systemd service.

Raspberry Pi | Python | OpenALPR | Flask | MySQL | Socket.IO | systemd

Education, Languages and Certifications

2023-2025 Higher Vocational Training in Network Systems Administration, IES Francisco Romero Vargas.

Spanish :	**Native**
English :	**B2**
AENOR :	**ISO 27001 Internal Auditor Course**
AWS :	**Cloud Practitioner**
Cisco :	Cisco Certified Support Technician **(CCST)**