

Esther Gutierrez

Senior SysAdmin | DevOps | SRE

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PROFESSIONAL SUMMARY

Senior Infrastructure Engineer & DevOps Specialist with 20+ years of experience architecting and managing high-availability production environments. Expert in **Private Cloud (CloudStack/Ceph/KVM/Kubernetes)** and large-scale virtualization. Proven track record of migrating legacy systems to modern infrastructure (3,000+ VPS), automating operations to eliminate toil, and hardening security postures. Combines deep Linux roots with a strong software engineering background to deliver reliable, scalable platform solutions.

CORE TECHNICAL SKILLS

- **Cloud & Virtualization:** CloudStack, Ceph Storage, KVM, Proxmox, VMware, Virtuozzo.
- **DevOps & Automation:** Ansible, Terraform, Docker, Kubernetes, GitOps (Argo CD), CI/CD.
- **Linux Engineering:** Deep OS hardening, Kernel tuning, High Availability, Performance optimization.
- **Observability:** Zabbix, Nagios, Prometheus/Grafana concepts, Incident Response.
- **Development:** Bash, PHP, Python, JavaScript, MySQL/NoSQL. (Currently learning: **Rust**).
- **Network & Security:** Firewalls (iptables/nftables), DNS Management, VPNs, TCP/IP networking.

PROFESSIONAL EXPERIENCE

Axarnet Comunicaciones — Senior Infrastructure Engineer

Jul 2019 – Jul 2025

Valencia, Spain

Tech: CloudStack, Ceph, KVM, Linux, Ansible, Docker, Zabbix, Acronis Backup

- **Architected and deployed a resilient Private Cloud** using **CloudStack, Ceph, and KVM**, handling the full lifecycle from hardware racking to software provisioning.
- **Engineered a massive storage solution**, building **2 Ceph clusters** (20 nodes, ~200 OSDs) providing **~2 PB** of raw capacity for production workloads.
- **Executed a large-scale migration**, moving **~3,000 VPS** from legacy platforms (Proxmox/Virtuozzo) to the new CloudStack environment with minimal service disruption.
- **Automated infrastructure provisioning**, utilizing **Ansible** and **Docker** to standardize OS hardening, control panel deployment, and compliance checks.
- **Designed a disaster recovery strategy**, implementing a verification-backed backup system for ~80% of the fleet, reducing potential data loss incidents.
- **Enhanced operational efficiency**, developing scripts to auto-ticket backup failures, slashing manual review time and ensuring high backup success rates.

Comvive Servidores — Systems Administrator

Jun 2015 – Jun 2019

Seville, Spain

Tech: Postfix, SpamAssassin, ClamAV, Debian, Linux Kernel

- **Designed a high-throughput Email Security Gateway**, integrating **Postfix**, custom filters, and SpamAssassin to process **thousands of daily messages** across hundreds of domains.
- **Hardened mail delivery**, implementing layered filtering (reputation lists, content scanning) that significantly reduced inbound spam and improved IP reputation.
- **Standardized software delivery**, building and maintaining a custom **Debian package repository** to ensure consistent environment configuration across the fleet.
- **Optimized Linux Kernels**, compiling and tuning custom kernels to meet specific low-latency and security.

Valencia, Spain

- **Built a high-performance hotel metasearch engine**, architecting the backend to aggregate real-time pricing from multiple provider APIs.
- **Optimized data throughput**, implementing **asynchronous multi-threaded processing** to handle concurrent API requests efficiently.
- **Scaled database performance**, tuning complex MySQL schemas and queries to support heavy search traffic.

ONO Cableuropa (Vodafone) — Technical Support Specialist

Sep 2004 – May 2005

- Resolved complex connectivity issues in a high-pressure ISP environment, consistently exceeding resolution targets.

FREELANCE & INDEPENDENT PROJECTS

2005 – PRESENT

Providing specialized IT solutions for SMEs while maintaining full-time employment.

- **Linux Administration:** Deployed and managed servers for self-hosted services and client environments.
- **Point of Sale:** Developed a comprehensive web application including CRM, stock management, and invoicing modules.
- **Ticket Management:** Engineered an end-to-end ticketing platform featuring automated QR generation and a mobile validation app for real-time access control.

CURRENT FOCUS & UPSKILLING

AUG 2025 – PRESENT

- **AI & MLOps:** Exploring Large Language Model (LLM) orchestration and serving using **vLLM** and **Ollama**. Focused on MLOps infrastructure and AI-assisted development.
- **Infrastructure as Code (IaC):** Deepening expertise in **Terraform** for reproducible infrastructure.
- **GitOps:** Implementing continuous delivery pipelines using **Argo CD**.
- **Modern Languages:** Learning **Rust** to build high-performance system tools.

PERSONAL PROJECTS & LABS

- **Smart Home & IoT Engineering:** Built a complex home automation ecosystem using **ESP8266/ESP32** micro-controllers for HVAC, lighting, and energy monitoring. Orchestrated via **Home Assistant** with custom automation scripts and **Alexa** integration.
- **AI & Computer Vision:** Implemented local AI person detection on security camera feeds to trigger context-aware alerts and automations.
- **Music & Radio Automation:** Developed software for commercial radio automation, featuring AI-based music classification models and automated playlist scheduling.
- **Radio Frequency (RF):** Amateur Radio Operator (EA5JQQ). Leveraging **APRS** protocol for resilient data transfer and telemetry monitoring in off-grid environments without internet connectivity.

CERTIFICATIONS & EDUCATION

- **MikroTik Certified:** Network Associate, Traffic Control, Routing, Wireless Engineer.
- **Cisco:** CCNA Discovery & Exploration (Network Fundamentals, Routing Protocols).
- **Education:** ASIR (Higher Technician in Networked Systems Administration).
- **Languages:** Spanish (Native), Valencian/Catalan (Fluent), English (Professional Working Proficiency).