

ANTONIO MADRID JAÉN

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TECHNICAL SKILLS

Systems: Linux (Debian, Ubuntu), systemd, journalctl, Bash, SSH hardening

Containers: Docker, Docker Compose, Dockerfile, networking and volumes

Networking: Cisco IOS, VyOS, static and dynamic routing (BGP), VLAN, ACL, VPN (WireGuard), TCP/IP

Automation: Ansible, Bash scripting, Git, Jenkins

Services: Caddy, Nginx, Fail2Ban, backups (rsync), nmap

TECHNICAL PROJECTS

Open Source SD-WAN *Ansible · VyOS · WireGuard · BGP* — github.com/4ntoniomj/SD-WAN

- Deployed a Hub-and-Spoke SD-WAN network on VyOS routers, fully automated with Ansible playbooks, eliminating configuration drift between sites.
- Reduced service downtime on link failure with a dual encrypted WireGuard tunnel (primary and failover) and automatic route switching.
- Replaced manual static routing with dynamic BGP route learning, allowing new sites to be added without touching the rest of the network.

Self-hosted Nextcloud on Docker *Docker Compose · Caddy · PostgreSQL · Redis* — github.com/4ntoniomj/nextcloud

- Deployed a multi-tier private cloud: Caddy as reverse proxy, Nextcloud, PostgreSQL 17, and Redis.
- Reduced the attack surface by splitting the infrastructure into two isolated Docker networks, so a compromised proxy can't reach the database.
- Automated TLS certificate issuance and renewal with a custom Caddy image (DuckDNS, DNS-01 challenge), without opening any ports on the router.

OPSDIAG — Server diagnostics *Bash · systemd · nmap* — github.com/4ntoniomj/OPSDIAG

- Reduced Debian 12 server diagnostics to a single command: CPU/RAM usage per process, partition status, failed systemd services, journalctl errors, and network scanning with nmap.

EXPERIENCE

Work placement (FCT) — ASIR program *La Huertecica, Cartagena · 3 months · 2026*

- Resolved workstation issues for employees across the organization.
- Deployed physical and software network infrastructure for the organization.

Work placement (FCT) — SMR program *JNC Informática 360, Cartagena · 3 months · 2024*

- Maintained and repaired computer hardware.
- Assembled servers and configured networks.

EDUCATION

Higher Technician in Network Systems Administration (ASIR) *IES El Bohío, Cartagena · 2024–2026*

Technician in Microcomputer Systems and Networks (SMR) *IES Carthago Spartaria, Cartagena · 2022–2024*

ACHIEVEMENTS & RECOGNITION

- SpainSkills 2026 (Spain's National Vocational Training Championship, IFEMA Madrid): Excellence Medal and 9th place nationally, after qualifying through the regional round, in timed technical tests on systems and networking.
- Technical outreach: own Spanish-language YouTube channel about Linux, cybersecurity, and networking.

LANGUAGES

Spanish (native) · English (basic)