

IVAN PETROV

Senior Infrastructure & IT Operations Leader • Applied AI Automation

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PROFESSIONAL SUMMARY

Infrastructure and IT operations leader with 24+ years across Linux/BSD systems, networking (BGP/OSPF) and high-availability environments — including 18 years running IT for a German-owned hosting and media group. For the past several years, designer and deliverer of applied-AI automation on self-hosted LLMs: AI ticketing, mail security and infrastructure monitoring, all in a live production environment. Combines deep operational judgment with hands-on experience building and running multi-GPU local-inference infrastructure. Seeking full-remote infrastructure, platform or SRE roles with an applied-AI dimension.

AREAS OF EXPERTISE

- **Operating Systems:** Linux (Debian, CentOS), FreeBSD, OpenBSD, NetBSD, Cisco IOS, Windows Server
- **Networking & Routing:** BGP, OSPF, VLANs, TCP/IP, IPv4/IPv6, routing & switching, load balancing, NAT, SNMP, VPN (OpenVPN, IPsec, GRE), pf/iptables/ipfw, RIPE management
- **Virtualization & Containers:** Proxmox, KVM/QEMU, LXC/LXD, VMware, Docker, OpenStack; Kubernetes (working knowledge)
- **High Availability & DR:** HA clustering, DRBD, off-site & geo-redundant backup, CDN/IP/DNS-based failover, disaster-recovery planning
- **Web / Mail / DNS:** Nginx, Apache, Squid; Postfix, Dovecot, Amavis, SpamAssassin; Bind, Unbound
- **Databases & Search:** PostgreSQL (+pgvector), MySQL, Redis, MeiliSearch; MongoDB, MS SQL (familiar)
- **Monitoring & Automation:** Grafana, Prometheus, node_exporter, Zabbix, Nagios/Icinga, Cacti; Ansible, Git, bash; Terraform (familiar)
- **Cloud & Storage:** Oracle Cloud (VMs), MinIO (S3-compatible); NAS/SAN/iSCSI, LVM, software RAID, ZFS
- **Applied AI:** local LLM serving (vLLM, llama.cpp), RAG (pgvector), agentic workflows (n8n), model evaluation & regression testing, prompt/context design
- **Security:** firewalls, SSL/TLS, PGP, Tripwire, security audits

PROFESSIONAL EXPERIENCE

Euroweb Ltd (part of Euroweb Internet GmbH, Germany) — Plovdiv, Bulgaria

Jul 2007 – Present

Senior System Administrator & Head of IT

- Lead a 12-person infrastructure team (DevOps, WinOps, ITops, networking, support): task allocation, recruitment, evaluation and 24/7/365 operations.
- Own the network layer — switches, routers, BGP/OSPF sessions, VLANs, RIPE resource management — for 700+ hosts and 6,000+ services worldwide.
- Direct high-availability, disaster-recovery and security posture across the estate; led the build-out of a modern datacenter (industrial AC, UPS, power generator, fire/smoke sensors, rack management with redundancy).
- Since 2023, designed and deployed AI-driven automation across operations — ticketing, mail security, infrastructure monitoring — on self-hosted LLMs (see Selected Applied-AI Projects).

Earlier roles — System & Network Administration

1999 – 2007

- Senior System Administrator, IT Prolet OOD (Sofia); Network Administrator, AngelSoft ISP (Plovdiv); System Administrator, 7 DNI TV AD (Sofia); and additional sysadmin / IT-support roles.

SELECTED APPLIED-AI PROJECTS

Product design, architecture direction and operations by me; implementation built with LLM-assisted development.

- **AI Ops Assistant** (adm.nonhumanlogic.com) — chat-driven assistant for remote server and infrastructure administration over SSH — VMs, processes, BGP sessions, Kubernetes cluster operations and monitoring. ~20 users; ~80% reduction in debugging and integration time; evolved from an earlier n8n-based prototype with 40+ Proxmox API operations. Node.js/Express, PostgreSQL/pgvector, MinIO, Docker, Nginx, local LLMs (vLLM/llama.cpp).

- **Dispatch — AI Ticketing** — automated triage and drafted responses over OTRS/Zammad/Znuny via API. 30–40 tickets/day, ~50% auto-resolved with human-in-the-loop approval, ~50% time saved per ticket; used daily by a 12-person team. Node.js/Express, PostgreSQL, Redis.
- **AI Webmail** — analytical mail platform: threat detection, summarization, translation and confidence-scored auto-replies, with PGP encryption. ~1,000 emails/day; 85–90% of routine correspondence handled automatically. Node.js/TypeScript, PostgreSQL/pgvector, Redis, MinIO, MeiliSearch, SearXNG.
- **MIMI — Monitor & Manage Infrastructure** (in development, target end-2026) — AI-assisted platform documenting and analyzing full datacenter infrastructure: network topology, devices, BGP sessions, servers, UPS/power/AC, with config, backup and incident automation. TypeScript, React/Vite, Fastify/NestJS, PostgreSQL (jsonb), Redis.

AI / GPU INFRASTRUCTURE (SELF-BUILT R&D LAB)

- Multi-GPU local-inference cluster: 8× RTX 3090 (EPYC 7313P, ASUS ROMED8-2T, 512 GB ECC RAM), plus additional dual-3090 nodes and an RTX 6000-class build.
- Proxmox with LXC GPU passthrough; model serving via vLLM and llama.cpp; quantization trade-offs, model evaluation and regression testing; experimentation with fine-tuning of Qwen-family models.

EDUCATION & TEACHING

- **BA, Bulgarian & German Philology** — Plovdiv University “Paisii Hilendarski”
- **Academic teaching position** — Plovdiv University “Paisii Hilendarski” (2013–2019)

LANGUAGES

Bulgarian (native) • English (fluent) • German (fluent)

OPEN SOURCE

Contributor — Hybserv (FOSS IRC services project).