

Adrián Parilli

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Summary

- A self-taught and curated on-the-field, On-Premise Infrastructure, DevOps, and Network Engineering Specialist.
- Over 20 years of hands-on experience solving deep technical problems in GNU/Linux environments.
- Over 10 years of experience working remotely, used to work standalone or with international teams, offering clear communication and committed to quality.
- Focused on bare-metal administration, high-availability architectures, observability, data sovereignty and business continuity, even under critical conditions.
- Proven track record of reliability and long-term retention in B2B contracts, built on strict discretion and adherence to confidentiality agreements.

Core Competencies

- **Bare-Metal Management:** Deployment, configuration, optimization, and administration of high-performance servers.
- **Advanced Networking & Perimeter Security:** Design of secure topologies, VLAN segmentation, traffic optimization and failover/load balancing strategies in remote or hard-to-reach environments.
- **Virtualization:** Administration of Virtual Machines on multiple servers or cluster environments.
- **Container Orchestration & CI/CD:** Microservices architecture and pipeline implementation to automate the software lifecycle.
- **Observability Stack Infrastructure & Development:** Design and implementation of centralized stacks for metrics/logs storage, consulting and tailored system alerts.
- **Data Sovereignty, Business Continuity & Disaster Recovery:** Deployment of private, immutable backup architecture solutions under strict privacy regulations and proactive monitoring.
- **Single Sign-On Authentication (SSO):** User Identification, management, permissions, and integration across on-premise, hybrid environments and corporate domains.
- **Industrial & Commercial Product Engineering:** Linux OS integration for commercial/industrial hardware, and certificate lifecycle automation for device provisioning in physical and virtualized test-bench environments.
- **Technical Leadership & Advisory:** Direct ownership of architecture and security decisions within cross-functional teams — from strategic advisory through hands-on implementation, without dedicated management structure. Equally comfortable operating independently under open-ended mandates, tolerating occasional high-pressure conditions.

Technical Skills

- **Operating Systems:** Archlinux, Debian, MX-Linux, Ubuntu, Unraid.
- **Auxiliary Devices:** PiKVM, Raspberry Pi, Shelly.
- **Network & Infrastructure:** Iptables, RouterOS (Mikrotik), OpenWRT, pfSense, Teltonika, Asus ROG, Aquacomputer Pumps & Sensors.
- **Virtual Network Infrastructure:** Cloudflare, Tailscale, Zerotier.
- **Secure Tunneling and VPN:** SSH, OpenVPN, WireGuard, VLESS/XHTTP.
- **Hypervisors:** Libvirt, Qemu/KVM, Proxmox VE, VMware ESXi.
- **Microservices Infrastructure:** Docker Compose, Docker Swarm, Sonatype Nexus.
- **Microservices Management Frontends:** Portainer, Arcane.
- **CI/CD:** Git, GitHub, GitLab, Gitea, Webhook.
- **Observability:** Alloy, Prometheus, Loki, Grafana, Rsyslog, Systemd Journal, Docker Logs.
- **Filesystems & Volume Managers:** BTRFS, EXT4, LUKS2, LVM2, NFS, XFS, ZFS.
- **Backup tools:** Rsync, Restic, Resticprofile, Vitrnbdbackup, VM-Babysitter.
- **Backup and Mirror Endpoints:** Rest Server, AWS S3, Backblaze B2.
- **On-prem Identity management:** OpenLDAP, Windows Server, Active Directory, MS Entra Connect, Shibboleth.
- **Cloud Identity and Service management:** MS365, MS Entra, MS Exchange Online.
- **Self-hosted Stacks:** Nextcloud, Wekan, Kimai, Odoo, xWiki, Bitwarden, Vaultwarden, Couchbase, Immich, Jellyfin
- **Scripting:** Shell (Bash).
- **Product Engineering & PKI:** SaltStack, custom Linux ISO builds, X.509 certificate lifecycle automation.

B2B Experience

[Staffwerke GmbH](#) [↗](#), Lead Infrastructure & DevOps Engineer – Frankfurt, Germany

Nov 2021 – July 2026

Another one-time project backup script, quickly became into a long-term and trustworthy relationship: A lazy implementation of my code caused data loss on one of their production servers. I diagnosed and executed a disaster recovery operation successfully, and identified an underlying system issue as the cause. Since my onboarding, my main work consisted into secure, optimize, re-design, scale, and plan/execute/coordinate entire migrations of their infrastructure (logical and physically, one of them under a Black Swan event); assessing about technical key decisions. All this, while attending an international group of proficient and highly skilled developers organized into teams, each with complex and unique requirements. Unfortunately, this great company had to shut down in 2026 due the global crisis.

- End-to-end administration, design, orchestration and documentation of the physical and logical infrastructure of a corporate Datacenter for 5 uninterrupted years.
- Dynamic provisioning of workspaces, isolated testing environments, and Level 3 incident resolution for multiple internal development teams.
- Designed deep thermal observability and telemetry for 13 liquid-cooled physical servers, proactively mitigating hardware failures.
- Managed networking and security by isolating traffic through VLANs exclusively assigned to containers and virtual machines, keeping the host network layer intact.
- Deployed self-hosted corporate services under strict data sovereignty, orchestrating stacks updates, backups, recovery and migrations.
- Designed and executed contingency plans against catastrophic failures, including full physical Datacenter migrations. An emergency evacuation to a remote bare-metal cluster during an armed conflict, and another transition due to a scheduled corporate shutdown.
- Acted as technical advisor and decision-owner for security architecture, workspace segmentation strategy, and critical infrastructure initiatives — including the SSO/IAM design and the emergency datacenter migration.

[Snowfensive LLC](#) [↗](#), Systems Architect & Infrastructure Developer – South Jordan, UT, United States

Feb 2019 – July 2020

A one-time project related with authoring a custom Linux based distro for comemrcial purposes brought me into a projected long-term project, involving research, development, orchestration & simulations related with security products oriented to enterprise networks; with a smart group of professionals focused into provide security solutions. Unfortunately, the Covid-19 pandemic made its job to cancel this project during its early design stages.

- Developed and customized a base-level GNU/Linux distribution (ISO) designed for installation on commercial OEM hardware.
- Architected and deployed VMware ESXi-based virtual test bench environments enabling remote feature validation and Q&A across simulated node networks in the product lifecycle.
- Implemented Infrastructure as Code via SaltStack for automated provisioning, configuration, and lifecycle management of VPN/PKI certificate automation across remote device fleets, enabling secure and scalable integration with product infrastructure.

[Melos Audio Ltd](#) [↗](#), Research/Development Systems Engineer & QA Automation – Petersfield, England

Mar 2017 – Nov 2018

- Integrated and developed system features for commercial audio products.
- Designed and operated test bench infrastructure (on-site & remotely) supporting concurrent validation of product features and early-stage Q&A in development cycles.
- Executed stress testing and technical instrumentation to meet certifications granted by commercial partners; authored industrial operational documentation.

Freelancer Experience

[Upwork Global LLC](#) [↗](#), Standalone Freelancer

Nov 2018 – present

Link to profile: <https://www.upwork.com/freelancers/~013f25d9d8faa59263> [↗](#)

- Exclusively dedicated to On-Premise Infrastructure & DevOps Specialist niche, solving issues or offering tailored solutions to both particular and enterprise clients.
- Long-term support to clients with ongoing projects of diverse nature.
- Ranked as 100% Job Success, over 46 completed and +1600 hours worked through the platform.
- 5.0/5.0 average ratings and multiple endorsements from B2B clients.

[People Per Hour Ltd](#) [↗](#), Standalone Freelancer

Mar 2016 – Nov 2020

Link to profile: <https://www.pph.me/adrianparilli/> [↗](#)

- First launching pad used to offer services and participate in diverse kinds of projects, performing punctual tasks or offering consulting.
- Worked with 36 unique clients in 48 awarded projects.
- 5.0/5.0 average ratings. Multiple endorsements from both freelancers and particular/B2B clients.

Projects

Real Time Maritime Tracking & Telemetry System

Oct 2025

A small fleet of yachts with onboard geolocation capabilities and multiple internet failovers lacked of reliable and scalable system to allow real time monitoring.

- Researched project's viability using Teltonika routers onboard (capable of GPS/NMEA metrics generation, provided with built-in mobile connections and Starlink) to transmit data to remote, onshore endpoints.
- Used LLM to shortlist potential candidates for self-hosted service providers. This led to choose Node-RED to perform all data ingestion, processing and displaying tasks.
- Provided context to LLM and requested precise instructions about the creation of a very specific Node-RED Flow. This led to the creation of a main flow pipeline for remote data ingestion, raw data parsing, and displaying real-time navigational data onto a human readable dashboard built with [node-red-contrib-web-worldmap](#) [↗](#). Further refinement involved to create secondary pipelines for website redirection, debug, and special behavior during stale data incidents, with last known position and course pinned onto the map.
- Created a development stack with a dockerized implementation of node-RED at on-prem infrastructure facilities, also performing DNS/network adjustments for redirect remote telemetry to the stack. Once it became production ready, exposed through Cloudflare Zero Trust tunnel configuration for secure and restricted access of sensible real-time navigational data. [Node-RED Flow Snapshot](#) [↗](#) · [Dashboard Snapshot](#) [↗](#)

Datacenter Thermal Telemetry & Observability

July 2025 – Sept 2025

Custom bare-metal liquid cooling sensors lacked native Linux support, preventing centralized thermal monitoring and creating a hardware risk blind spot.

- Independently scoped and built, under an open-ended mandate, a custom telemetry pipeline (Alloy/Prometheus/Grafana) in direct response to an active on-site overheating risk.
- Compiled [dkms modules](#) on edge nodes without support in kernel, to extract hardware metrics.
- Normalized raw data exported by Alloy and received by Prometheus from both servers and sensors, via regex and scalable labeling.
- Delivered an enterprise-grade Grafana dashboard for historical and real-time thermal analysis, ensuring hardware safety and preventing thermal throttling. [Raintank Dashboard 1](#) · [Raintank Dashboard 2](#) · [Static Snapshot 1](#) · [Static Snapshot 2](#)

Automated VPN PKI & IAM Integration Architecture

Apr 2024 – May 2024

Design an automated lifecycle workflow for VPN certificate management (PKI) seamlessly integrated with an existing on-premise LDAP identity provider.

- Architected a comprehensive logic flow for automated certificate provisioning, renewal, and revocation based on custom LDAP attributes.
- Designed the exact integration parameters for Client Configuration Directives (CCD) and dynamic Firewall rule propagation.
- Delivered a scalable, zero-trust integration blueprint and QA testing framework ready for implementation. [Flow Diagram Link](#)

Hybrid SSO & Microsoft Entra Integration

Jan 2024 – Apr 2024

Integration of a strictly isolated, on-premise SSO environment with MS Exchange Online, bypassing endpoint synchronization incompatibilities.

- Led the design and engineering of a unified Identity and Access Management (IAM) flow bridging on-prem LDAP with Windows Server Active Directory.
- Deployed a custom sync layer to MS Entra Connect, extending secure authentication to MS365, backed by a 2FA self-service portal.
- Delivered a seamless, centralized zero-trust access control across both cloud and air-gapped on-premise infrastructure. [Diagram Link](#)

Network Topology Redesign & High Availability

Nov 2023 – July 2024

Legacy switch infrastructure caused severe bottlenecks and poor VPN performance across bare-metal servers.

- Architected a scalable L3 topology utilizing Mikrotik switches.
- Enabled L3HW offloading, FastTrack, and local DNS caching.
- Deployed redundant WAN failovers and rebuilt the VPN infrastructure via OpenWRT VMs with load-balanced client access.
- Eliminated throughput bottlenecks and ensured High Availability (HA) for a growing 14-node bare-metal cluster. [Diagram Link](#)

Disaster Recovery Under Extreme Conditions

Mar 2022 – Apr 2023

During the onset of the 2022 geopolitical crisis, a physical datacenter was trapped in an active conflict zone in Eastern Europe, facing an imminent risk of destruction without prior warning.

- Autonomously planned and remotely executed, under a maximum-priority mandate, the emergency backup of the entire infrastructure data to cloud backups, coordinating with the on-site team the hardware dismantling.
- Configured a total of 11 servers on Hetzner for essential services, improvised a temporary network topology and deployed a Proxmox VE cluster.
- Retrieved the infrastructure data from backups, adapting all setup for the new environment and creating solutions to circumvent network limitations, resuming production operations with zero loss of corporate data or sovereignty.
- After the company coordinated a cross-border extraction of the hardware from the conflict zone, this hardware restored, upgraded and rebuilt on a secure datacenter rack within the European Union; the infrastructure was progressively migrated and re-deployed on the definitive location, with zero data loss and minimal downtimes.

VM-Babysitter

Dec 2021 – present

Design and development of an Automatic Backup & Monitoring utility for QEMU/KVM Virtual Machines.

- Original architect, developer and maintainer of an open-source disaster recovery and container lifecycle orchestrator built with Linux, Vmtoolsd, Docker, Libvirt, Rsync and Bash.
- Published globally as a container image and natively integrated into the [Unraid Community Apps](#) ecosystem.
- Provide Level 3 technical support and continuous codebase maintenance for the end-user community.
- Occasional contributor of the [backend project](#) used by [VM-Babysitter](#).