

SERGIO BARRIENTOS

Linux Platform Engineer | RHEL & Ansible

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PROFESSIONAL SUMMARY

Linux platform engineer focused on RHEL administration and Ansible automation in banking and railway environments. Lead the RHEL 8 to 9 migration at Deutsche Pfandbriefbank and previously coordinated a five-person support team at Sopra Steria. Independently, benchmark local LLMs and publish inference guides through XeCores, alongside two Android apps with AI features.

WORK EXPERIENCE

Linux and Virtualization Engineer | Deutsche Pfandbriefbank AG

Jul 2025 - Present

Full-time | Madrid, Spain (hybrid)

- **Linux platform operations:** Support the team's 300+ RHEL server estate across datacenters and critical banking workloads.
- **RHEL modernization:** Lead the RHEL 8 to 9 migration, coordinating phased technical work. Use Red Hat Satellite for provisioning, patching, and lifecycle management.
- **Automation:** Build Ansible playbooks and Git workflows for server deployment, configuration, and controlled infrastructure changes.
- **Reliability and security:** Support hardening, CheckMK monitoring, high-availability clusters, disaster recovery, and VMware vSphere operations.
- **Application support:** Resolve Linux requirements with application owners and troubleshoot Nginx, Apache, Tomcat, JBoss, and PostgreSQL.
- **Internal AI exploration:** Contribute to document-processing and automation prototypes with Azure AI Foundry and Document Intelligence.

IT Application Specialist / Linux System Administrator | Sopra Steria

Apr 2023 - Jul 2025

Internship → full-time | Madrid, Spain (hybrid) | Norwegian railway-sector client

- **Technical coordination:** Coordinated five people supporting and patching a critical application estate of 100+ Linux and Windows servers.
- **Linux support:** Progressed from an internship to application support and a Linux-focused assignment, troubleshooting RHEL, Windows, and Azure environments.
- **Automation:** Automated administration and deployment with Ansible; supported RHEL lifecycle management with Red Hat Satellite.
- **Enterprise operations:** Managed incidents, requests, and controlled changes in ServiceNow under ITIL processes.
- **Identity and collaboration:** Supported Active Directory, Kerberos, Entra ID, Intune, and Exchange while working in English with a Norwegian client.

TECHNICAL SKILLS

Linux / RHEL	RHEL 7/8/9, Red Hat Satellite, LVM, systemd, SELinux, Kickstart, HA/DR, performance tuning
Automation / IaC	Ansible, Bash scripting, Git-based workflows, repeatable infrastructure configuration
Local LLMs (projects)	llama.cpp, GGUF quantization, Intel SYCL, AMD ROCm, RK3588 edge inference, KV-cache tuning, concurrency testing, local LLM benchmarking
Platforms / Services	VMware vSphere/vCenter, Nginx, Apache HTTP Server, Tomcat, JBoss Web Server, PostgreSQL, SSL/TLS
Cloud	Microsoft Azure; Firebase for independent apps
Operations	CheckMK, ServiceNow, Active Directory, Kerberos integration, ITIL, change management

INDEPENDENT PROJECTS

- **IntelliAuto:** Published Kotlin/Firebase vehicle app with offline storage, ML Kit OCR, maintenance tracking, and an AI assistant.
- **IntelliFlow:** Published personal-finance app with offline storage, cloud sync, projections, and AI spending summaries.
- **XeCores:** Independent public project documenting tested local-LLM inference recipes and benchmark evidence for Intel Arc GPUs, using llama.cpp SYCL and vLLM XPU.
- **Engineering portfolio:** Technical field notes on Linux, Ansible, and local inference experiments across Intel, AMD, and RK3588 hardware.

CERTIFICATIONS & EDUCATION

RHCSA - Red Hat Certified System Administrator

Sep 2024

Higher Technician in Computer Network Systems Administration (ASIR)

Jun 2023 | Madrid, Spain

LANGUAGES

Spanish: Native **English:** Professional working proficiency