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## LANGUAGES

🗣 German (Native)  
🗣 English (B2)

# Christian Erben

I have many years of experience in system and network administration, with a focus on designing and securing complex, redundant infrastructures. This includes professional firewall management, planning secure network architectures, as well as solid knowledge of classic and advanced protocols and platforms. Additionally, I bring extensive practice in Linux administration, security-oriented operational processes, and the establishment of structured security mechanisms such as IAM, ISMS, as well as incident and vulnerability management.

## PROFILE

As an experienced IT engineer with over 18 years of practice in enterprise environments, I combine deep technical expertise with a clear focus on information security and robust operational processes. My focus lies on designing, operating, and securing complex network and platform architectures. This includes in particular firewall management, planning secure and segmented networks, as well as extensive knowledge of both classic and exotic network protocols and various network products.

In addition to my network experience, I have been working intensively with Linux systems for many years and manage both classic server environments and containerized platforms. I combine this technical foundation with structured approaches from information security management, the development of security policies, and the establishment of effective security processes.

## SECURITY & COMPLIANCE / GOVERNANCE

### Information Security Management (ISMS)

- Establishment and maintenance of security policies (Policies, SOPs, procedures)
- Derivation and implementation of organizational and technical security measures
- Continuous development of secure operational processes

### Security Governance

- Definition and establishment of security standards for infrastructure and platform operations
- Documentation, process design and ensuring uniform policy application
- Creation and maintenance of security-relevant operating concepts

### BSI IT-Grundschutz

- Use of Grundschutz methodology to structure and evaluate security measures
- Support in establishing secure operational processes according to recognized standards

### Identity & Access Management (IAM)

- Role and permission concepts (RBAC)
- Rights review, recertification and separation of functions
- Privileged Access Management (PAM)

### Incident & Vulnerability Management

- Establishment and maintenance of structured processes for incidents & security findings
- Prioritization, processing and documentation of security-relevant incidents
- Operational vulnerability management (including patch planning and follow-up)

## EXPERIENCE

### Key Projects

Core technical and organizational engagements with high responsibility.

## Network Administrator (Palo Alto / Fortinet)

St. Dominikus Krankenhaus und Jugendhilfe gGmbH

Feb 2026 - Present

Ludwigshafen, Germany

- Responsible for high availability and secure operation of LAN, WLAN, and VPN services for medical and administrative environments.
- Operate and maintain network infrastructure including switches, routers, firewalls, and VLAN segmentation for different hospital areas.
- Implement security controls and policies aligned with ISO 27001, BSI baseline protection, GDPR, and sector-specific requirements.
- Monitor network performance and fault tolerance for critical systems and provide rapid troubleshooting in incident scenarios.
- Integrate medical devices into hospital network environments and ensure secure interoperability with clinical information systems.
- **Achievement: Currently migrating IPSec VPN tunnels from Cisco to Palo Alto with phased cutover planning and no service disruption.**

Palo Alto

Fortinet

LAN/WLAN/VPN

VLAN Segmentation

ISO 27001

BSI Baseline Protection

GDPR

IDS/IPS

Zero Trust

Healthcare IT

## Network Security / Management

Deutsche Vermögensberatung AG

Oct 2019 - Present

Frankfurt am Main, Germany

- Manage and review network permissions to maintain accurate, secure access controls across the enterprise.
- Continuously clean up legacy rules to reduce complexity and ensure compliance with internal policies.
- Support IT projects with network expertise, ensuring architectures align with current topologies and security standards.
- Maintain detailed network documentation covering topology, policies, and security protocols.
- Coordinate change planning and implementation with infrastructure, security, and application teams.
- Operate proxy infrastructures and monitor network paths including IPSec tunnels and SD-WAN links.
- Support the introduction of cloud-based security services such as Prisma SSE.
- Responsible for Identity & Access Management (IAM) and rights review in enterprise environments
- Creation and maintenance of security-relevant processes and documentation
- Ensuring consistent policy application in complex network and infrastructure environments
- **Achievement: Reduced firewall rule complexity from 5,000 to fewer than 1,000 entries for greater transparency and performance.**
- **Achievement: migration from Palo Alto to Fortinet, translating complex security policies without service interruption.**
- **Achievement: Implementation of IPv6 across the organization, future-proofing the network.**
- **Achievement: Rolled out secure SD-WAN connectivity for branch offices, improving stability and visibility of network communication.**
- **Achievement: Introduced Microsoft Azure services into the infrastructure while ensuring compliant hybrid connectivity.**

Firewall Management

SD-WAN

IPSec

Proxy

Azure

IPv6

Change Management

Documentation

Cloud Security

## Linux Systems Administrator / Nagios Administrator

Schwarz IT GmbH & Co. KG

Apr 2018 - Dec 2018

Weinsberg, Germany

- Operated large-scale environments with 15,000 physical servers and 50,000 virtual machines.
- Automated provisioning of servers, applications, and configurations via Puppet and Ansible.
- Ensured high availability through structured patch management and monitoring.
- Advised projects on secure infrastructure design and integration into existing monitoring processes.
- **Achievement: Accelerated server rollout cycles by automating golden-image provisioning and compliance checks.**

Linux

Automation

Monitoring

High Availability

Puppet

Ansible

IPv6

## Linux Systems Administrator

Deutsche Vermögensberatung AG

Feb 2011 - Dec 2017

Frankfurt am Main, Germany

- Administered 1,000 physical servers and 2,000 virtual machines in a highly regulated environment.
- Automated server installation and configuration workflows using Puppet and Ansible.
- Operated enterprise email platforms with Dovecot and Postfix including archiving solutions.
- Implemented storage solutions such as Ceph and cloud storage for scalable data services.
- **Achievement: Delivered a mail archiving platform that ensured long-term compliance and simplified eDiscovery.**
- **Achievement: Design and implementation of IPv6 at the network perimeter to ensure external accessibility.**

Linux

Email

Automation

Storage

Puppet

Ceph

IPv6

## Additional Projects

Complementary or specialized projects with flexible scope.

## Member of the Board

DEGIT AG

Apr 2020 - Present

Hockenheim, Germany

- Board member focusing on data protection, information security, and network strategy for SME clients.
- Connects clients with specialists from DEGIT's expert network and coordinates interdisciplinary consulting teams.
- Oversees the design of secure, redundant infrastructures including firewall concepts, VPN solutions (IPv6, Zero Trust, Zero-Config VPN, etc.) and backup strategies.
- Introduction of a company-wide security governance framework including policy design and access governance
- Conducting structured risk analyses and deriving technical security measures
- Development of secure operational processes (Least Privilege, Logging, Monitoring, Role Models)
- **Achievement: Established a governance framework aligning network security, privacy, and compliance requirements for new customer projects.**

Compliance

Security Strategy

Networking

Consulting

Compliance

M365

Cloudflare

Supabase

Azure

IPv6

## SchlauFabrik – Multi-tenant Compliance & AI Training Platform

xtensible UG (haftungsbeschränkt) & Co. KG

December 2025 - Present

Hockenheim, Germany

- Designed and built a modern, responsive training platform for compliance and AI topics (SME-focused) with tenant isolation and role-based access.
- Implemented security-by-design with Postgres Row-Level Security, audit logging, rate limiting, and hardened authentication flows (Passkey/Magic Link/2FA/SSO).
- Built course delivery with progress tracking, quizzes, enrollments, and admin dashboards for tenant/user management.
- Delivered tamper-evident PDF certificates with QR verification and cryptographic hashing; enabled bulk export for audits.
- Integrated Stripe billing (subscriptions, portal, webhooks) with license models and soft-lock mechanisms for tenant limits.
- Tech: Next.js (App Router), TypeScript, Bun, Tailwind, next-intl (DE/EN), Neon Postgres, Stripe, Resend, Vitest/Playwright.

Multi-tenant

Compliance

AI Training

RBAC

Postgres RLS

Stripe

Next.js

TypeScript

Tailwind

Neon Postgres

Vitest

Playwright

## AI Training Platform & AI Tools Evaluation

DEGIT AG

Aug 2025 - Oct 2025

Hockenheim, Germany

- Design and implementation of an internal AI training platform for corporate use, focusing on compliance with the EU AI Act and practical enablement of teams.
- Evaluation and decision paper comparing leading AI and automation platforms with regard to data protection, reliability, API integration, and governance readiness.
- Assessment of emerging agentic AI workflows for multi-step task orchestration and their integration into enterprise automation environments.
- **Achievement: Analyzed and benchmarked: OpenAI ChatGPT, OpenAI Open-Weight GPT-OSS, Microsoft Copilot, Perplexity, Anthropic Claude, Apple Foundation, z.AI GLM, n8n, make.com, Zapier.**
- **Achievement: Developed a modular learning platform prototype with Supabase and Cloudflare integration, role-based content, and progress tracking.**
- **Achievement: Produced a comparative decision framework supporting the company's AI adoption strategy.**

AI Evaluation

AI Training

EU AI Act

Supabase

Cloudflare

Automation

n8n

make.com

Zapier

OpenAI

Apple Foundation

Anthropic Claude

Microsoft Copilot

Perplexity

z.AI GLM

Agentic AI

Enterprise Automation

Cursor

Claude Code

OpenAI Codex

## SKILLS & TECHNOLOGIES

### Security

Firewall Engineering (Fortinet, Palo Alto) Proxy Management  
Secure Web Gateways Access Governance Change Governance  
Incident Management Problem Management

### Infrastructure

Linux Administration Linux Distributions (Debian, Ubuntu, RHEL) High Availability  
Redundancy & Failover IPv6 & Routing VPN & Secure Connectivity Monitoring  
Troubleshooting

### Tools & DevOps

Bash / Shell Scripting paperless-ngx Git Cursor Postfix / Dovecot  
Bind / Unbound Squid Proxy HAProxy Docker Caddy

### Management

Change Management Cross-team Coordination Stakeholder Communication  
Technical Documentation

### AI

AI-assisted Troubleshooting Agentic AI Multimodal AI Causal AI Lovable  
OpenAI / ChatGPT Anthropic / Claude Google / Gemini AI Ethics & Governance

### Compliance

Regulatory IT Compliance Audit-Readiness & Policy Enforcement  
Financial Sector Control Environments

## HIGHLIGHTED PROJECTS

### Firewall Rulebase Optimisation

Streamlined enterprise firewall rulebases by analysing 5,000+ objects, consolidating duplicates, and establishing a lifecycle for dormant rules. The result improved performance, readability, and audit readiness.

Firewall Governance Automation

### Palo Alto to Fortinet Migration

Planned and executed a platform migration, translating complex objects and policies into Fortinet while keeping services online. Introduced new templates for ongoing policy hygiene.

Migration Fortinet Change Management

### SD-WAN Branch Rollout

Connected branch offices via SD-WAN, defined redundancy concepts, and aligned monitoring to ensure transparent operations across all paths.

SD-WAN Networking Monitoring

### Azure Integration for Hybrid Infrastructure

Introduced Microsoft Azure services into an on-prem environment, coordinating network connectivity, identity integration, and security baselines.

Azure Hybrid Cloud Security