



VyOS
Networks



INFACARE

/ VYOS SUCCESS STORY

Building Resilient Internet Routing: How InfraCare Powers Data Center Services with VyOS

AUGUST 2025

Customer Overview

InfraCare, based in the Netherlands, delivers consulting, design, implementation, and management of advanced network infrastructures. Their services span SD-WAN, SD-LAN, Wi-Fi, and private cloud hosting—providing customers with reliable, high-quality connectivity. InfraCare operates its own dual data center infrastructure to host SD-WAN hubs and backend services, ensuring availability and stability for clients.

The Challenge

As InfraCare's data center business grew, they required a **redundant and scalable BGP routing solution** to advertise their own public IP addresses (via RIPE NCC membership) and ensure reliable internet connectivity. Their new design called for **four BGP routers** across two geographically separated data centers, each with full redundancy. The team needed a solution that was:

- Standards-compliant (IPv4/IPv6, OSPFv3, eBGP/iBGP)
- Capable of integrating **RPKI for route validation** and **BFD for fast failovers**
- Redundant at the gateway level with **VRRP**
- Cost-effective compared to traditional router hardware



Why VyOS?

InfraCare evaluated hardware routers but chose VyOS after a clear **cost-benefit analysis**. With prior positive experience using VyOS (and earlier Vyatta), the team trusted the platform's maturity and flexibility.

Key reasons for choosing VyOS:

- **Runs seamlessly on standard server hardware for flexible performance scaling**
- **Enterprise-grade features like BGP, OSPFv3, VRRP, RPKI, and BFD**
- **Modern CLI workflow familiar to network engineers**
- **Open-source transparency—avoiding vendor lock-in**
- **Smooth deployment with no external services required**



Implementation

InfraCare built a new **dual-stack IPv4/IPv6 setup** across both data centers in just one month. The configuration included:

- **BGP (AS213857)** with both external and internal peers
- **OSPFv3** for internal routing
- **RPKI and BFD** for security and fast recovery
- **VRRP** for gateway redundancy

The solution was deployed fully in-house by InfraCare's engineering team, leveraging their strong knowledge of VyOS.



VyOS Deployment (Courtesy - Sebastiaan Oostlander, Co-Owner, InfraCare NL)

Results

- **Stable and scalable routing** across both edge and core environments
- **Lower costs** compared to other proprietary licensed commercial routers
- **Operational efficiency** with a modern CLI and commit workflows
- **Flexibility** to scale performance using commodity servers
- A trusted backbone for data center growth and customer services



Looking Ahead

InfraCare continues to rely on VyOS as the foundation of its internet routing, with plans to expand automation and monitoring integration. With VyOS, InfraCare has the freedom to evolve its infrastructure without the constraints of proprietary vendors.



VyOS lets us build a fully redundant, standards-compliant BGP solution on our own hardware. It's flexible, cost-effective, and does exactly what we need.

— InfraCare Team

