VyOS Networks

PAYLink

VYOS SUCCESS STORY

# Secure, Scalable Networking in the Cloud: The VyOS Advantage for PayLink on AWS

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## Customer Overview

PayLink is a licensed third-party processor for card payments in Albania and the Balkan region, regulated by the Bank of Albania. Following today's challenges and standards in the card payment industry, PayLink offers a wide range of services in compliance with PCI standards and Global Payments Schemas requirements. Their platform facilitates secure financial transactions and serves major institutions, including banks and fintech players.

With increasing cloud adoption, PayLink required a robust networking solution on AWS to support:

- **Secure, performant VPNs across regions**
- **Encrypted communication with its financial entities**
- **Full visibility and control of routing infrastructure in the cloud**

## The Challenge

PayLink had previously relied on Cisco devices to handle VPN and routing requirements. But as workloads transitioned to AWS, they faced new demands:

- **VPN performance needed to meet growing regional traffic**
- **The solution had to be flexible, cloud-native, and vendor-neutral**
- **Traditional proprietary solutions introduced high licensing costs and limited transparency**

### Additional requirements included:

- **Compliance needs such as detailed audit trails and strong encryption standards**
- **Sub-100ms latency for real-time applications transitioning to the cloud**

## Why VyOS on AWS

VyOS quickly stood out during PayLink's evaluation due to its:

- **IPSec VPN performance:** Stable and performant for encrypted inter-region connections, especially beneficial with AWS's strong routes toward Europe
- **Support without vendor lock-in:** No hidden features—everything included in the base image
- **Easy onboarding:** Support portal includes free LTS ISO for AWS deployment, allowing PayLink to test and deploy at no additional cost
- **Scalability path:** Future upgrade to VyOS 1.5 LTS (with VPP & DPDK) promises significant VPN and routing acceleration—up to 17M PPS/core

## AWS Deployment Highlights

- **Platform:** VyOS deployed in AWS EC2 instances
- **Use Case:** Primary use focused on IPSec VPN tunnels for secure financial traffic
- **Support Model:** Standard support (Next Business Day SLA) included, with upgrade options to private chat and production/mission-critical tiers
- **Flexibility:** Customer retains control of routing, tunneling, and firewall features within AWS

### Technical Deployment Details:

- **Instance Configuration:** Deployed on `c5n.large` instances, optimized for network performance with enhanced networking and up to 25 Gbps throughput
- **High Availability Design:** Active-passive configuration across multiple AWS Availability Zones, using Route 53 health checks and Elastic IP reassignment for automated failover

## Key Outcomes

- **Achieved secure, reliable VPN connectivity across AWS**
- **Avoided high licensing fees from legacy vendors**
- **Gained access to full feature set—no artificial limitations**
- **Laid groundwork for future use of high-throughput networking with VPP/DPDK**

> *VyOS gave us the cloud-native routing performance and VPN reliability we needed on AWS. Its simplicity, transparency, and full control made it an ideal fit for our infrastructure strategy.*
>
> — Tedi Guri, Director of Information System, PayLink