

VYOS SUCCESS STORY

PT. Inovasi Solusi internasional. Networking Revolution with VyOS: Embracing Open-Source Flexibility

Introduction

PT. Inovasi Solusi internasional, a leader in the IT sector, has consistently pushed the boundaries of network technology. The company's adoption of VyOS, a strategic decision led by Network Engineer Fendi Tan, marks a significant shift in PT's network infrastructure, aligning with its vision of innovation and adaptability.

The Challenge

PT. Inovasi Solusi internasional was initially constrained by the limitations of traditional network solutions. Relying on hardware-specific systems from Cisco and Juniper, the company faced challenges in scalability, flexibility, and cost-effectiveness. These solutions, while robust, did not offer the agility needed to adapt to rapidly changing technology landscapes and diverse client requirements. As the company's clientele expanded and their needs became more complex, the existing network infrastructure struggled to keep pace, leading to inefficiencies and increased operational costs. There was a growing need for a more dynamic, scalable solution that could support diverse network configurations and protocols without being tied to specific hardware, a need that became increasingly critical for maintaining PT's competitive edge in the IT market.



The VyOS Solution

PT. Inovasi Solusi internasional chose VyOS for its open-source, platform-independent capabilities, a decision that significantly enhanced network versatility and integration. The implementation addressed substantial network throughput needs, with East-West traffic at 10G and North-South traffic at 500MB. VyOS's robust support for complex routing protocols, including eBGP and iBGP, was crucial. This allowed for advanced routing policies and communities to effectively manage traffic flows and prefixes without the use of Virtual Routing and Forwarding (VRF).

The scale of PT's BGP implementation is impressive, with 5 external peers and 10-15 internal peers, showcasing VyOS's ability to handle extensive network demands. iBGP and eBGP were strategically used to manipulate traffic and ensure high availability, especially in switching links. This adaptability, combined with compatibility across various hardware and virtual environments, made VyOS an ideal solution for PT's diverse and dynamic networking requirements.







Implementation and Impact

Implementing VyOS brought a notable transformation in PT's network capability. The use of VyOS for advanced routing protocols like eBGP and iBGP enabled more efficient network management and stability. Key features like Virtual Tunnel Interface (VTI) for secure VPNs, and integration with existing VMware environments, further enhanced the network's performance and reliability. This strategic upgrade has led to a more robust, adaptable network infrastructure, reinforcing PT's position as a technologically advanced player in the IT industry.

Further Expansion with VyOS

With the values and efficiency that VyOS brings to PT, they were encouraged to use VyOS further beyond the geography. They have deployed VyOS to PT Inovasi Solusi Internasional, their Indonesian subsidiary, and upgraded the BGP operations to be as robust as PT's

Conclusion

PT Inovasi Solusi internasional adoption of VyOS signifies a pivotal move towards future-ready network solutions. The company's successful deployment of VyOS, incorporating complex routing and VPN configurations, demonstrates its commitment to leveraging cutting-edge technology to deliver superior and innovative IT services.

About PT Inovasi Solusi internasional

PT Inovasi Solusi Internasional is a leader in penetration testing in Indonesia and the Philippines, emphasizing ethical processes to detect and address security vulnerabilities in web and mobile apps, and IT infrastructure. They also offer innovative solutions across various domains, including mobile gaming, ingredient recipe management systems, HR payroll systems, and online marketplaces for home-made foods. Their commitment to innovation and security is evident in their diverse service offerings and their expansion into international markets.





