



**VyOS**  
Networks

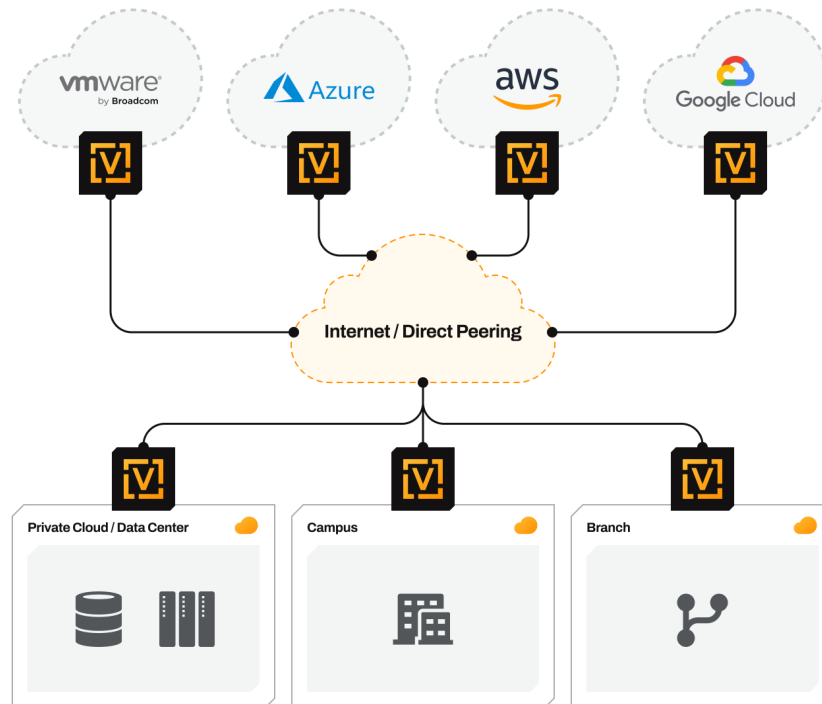


**/ SOLUTION BRIEF**

# **VYOS CLOUD GATEWAY**

## Unlock Secure and Seamless Cloud Connectivity with VyOS Cloud Gateway

A **Cloud Gateway** acts as the secure bridge between on-premises infrastructure and cloud environments, enabling reliable, scalable, and policy-driven connectivity. It plays a crucial role in hybrid and multi-cloud architectures, providing centralized routing, traffic control, and security enforcement across distributed networks.



### Key Use Cases

- **Hybrid Cloud Integration**  
Connect on-prem infrastructure to cloud platforms securely and efficiently.
- **Multi-Cloud Interconnectivity**  
Route traffic between AWS, Azure, GCP, and private clouds with unified policy enforcement.
- **Secure Site-to-Cloud VPN**  
Enable encrypted tunnels for remote offices, branches, and data centers.
- **Cloud Transit Gateway**  
Act as a central traffic hub between multiple VPCs/VNets or cloud regions.
- **Cloud-Based Firewall**  
Apply security policies and traffic inspection at the cloud perimeter.

## Built-in Security and VPN Features

VyOS offers a full suite of security and VPN capabilities to protect your cloud edge:

### VPN Protocols

- **IPSec (IKEv1 & IKEv2)**

Industry-standard for site-to-site and remote access tunnels.

- **WireGuard**

Lightweight, fast, and modern VPN ideal for cloud and edge deployments.

- **OpenVPN**

Flexible SSL-based VPN for remote access scenarios.

- **SSL VPN**

Ideal for clientless or browser-based access.

### Network Security Features

- **Stateful Packet Inspection (SPI)**

Context-aware traffic filtering based on session state.

- **Zone-Based Firewalling**

Segregate traffic by trust level and apply policies at zone boundaries.

- **Network Address Translation (NAT)**

Full support for SNAT, DNAT, and PAT for traffic isolation and control.

- **Connection Tracking & Logging**

Monitor and audit active flows for visibility and compliance.

- **Access Control Lists (ACLs) and Route-Based Filtering**

Fine-grained traffic segmentation.

- **IPv6 Support with Security Parity**







End-to-end protection across dual-stack environments.

- **Dynamic Routing with Security Policies**

Enforce route-level access control using BGP/OSPF integration.

## Why VyOS as Your Cloud Gateway?

VyOS delivers a powerful, flexible, and cost-effective solution for cloud gateway deployments.

-  **Full Routing Stack**  
Support for BGP, OSPF, static routes, and route filtering.
-  **Advanced VPN Capabilities**  
IPSec, WireGuard, and OpenVPN for secure and scalable site-to-site or remote access.
-  **Firewall & NAT**  
Zone-based firewalling, connection tracking, and NAT for precise traffic control.
-  **Cloud-Native Automation**  
Easily integrate with Terraform, cloud-init, and Ansible for automated provisioning.
-  **Multi-Platform Support**  
Run VyOS natively in AWS, Azure, GCP, or on-prem virtual environments.
-  **Transparent Licensing**  
Open and predictable licensing model, ideal for scaling across environments.

## Conclusion

With VyOS, enterprises gain complete control over their cloud edge—ensuring security, visibility, and agility ready to meet the demands of modern hybrid and multi-cloud environments.