



High-Performance Software Router

Terabit performance with enterprise-grade routing features at the lowest total cost of ownership

Features

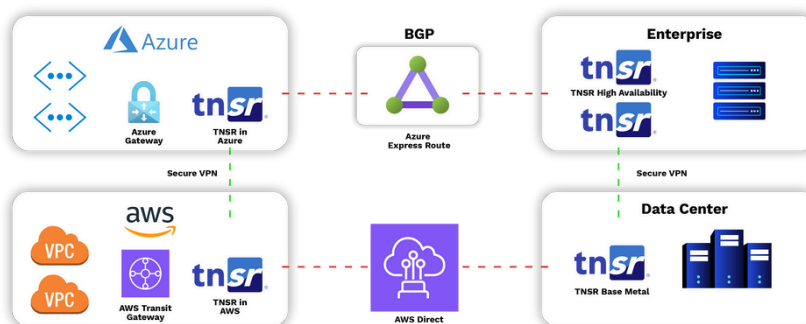
- **Advanced Routing Features:** BGP with BFD support, OSPF for IPv4 and IPv6, ECMP for load balancing, VRF for network segmentation, carrier-grade NAT, and more.
- **High-Performance VPN:** Secure site-to-site and remote access user VPN capabilities with IPsec and WireGuard.
- **Flexible Deployment:** You can deploy on AWS and Azure (Intel & ARM64), Netgate Systems in your data centers, or in hybrid environments.
- **Simple Management:** Familiar CLI or standards-based (NETCONF/RESTCONF) orchestration across tens, hundreds, or thousands of instances.

TNSR is a high-speed software router and VPN concentrator that delivers exceptional performance without compromising on flexibility or cost. Using powerful technologies like Vector Packet Processing (VPP), TNSR provides advanced routing and VPN features that meet the needs of businesses, service providers, and government organizations.



“With TNSR, we were able to get the job done for one-tenth the cost, with ten times more performance.”

Vishvas Chitale, CEO and CTO, [Chitale Dairy](#)



Use Cases

- **Complex Cloud Architectures:** Integrates seamlessly with sophisticated cloud setups, supporting intricate networking demands.
- **Multi-Cloud Deployments:** Facilitates robust networking across multiple cloud environments, ensuring consistency and performance.
- **High-Capacity Network Expansion:** Extends advanced network capabilities including routing, Network Address Translation (NAT), and Virtual Private Networks (VPNs) into cloud platforms and traditional data centers.

Feature	Netgate TNSR	VyOS	Juniper vMX
VPN SUPPORT			
IPsec Site-to-Site	Yes	Yes	Yes
IPsec Remote Access	Yes	Yes	Yes
WireGuard	Yes	Yes	No
SERVICES			
DHCP Client/Server	Yes	Yes	Yes
DNS Resolver	Yes	Yes	No
NTP Server	Yes	Yes	Yes
USER MANAGEMENT			
Local Authentication	Yes	Yes	Yes
Role-Based Access Control	Yes	No	Yes
RADIUS Authentication	Yes	Yes	Yes
REPORTING/MONITORING			
SNMP	Yes	Yes	Yes
Prometheus Exporter	Yes	No	No
Link Layer Discovery Protocol	Yes	Yes	Yes
IPFIX	Yes	Yes	Yes
FORWARDING TECHNOLOGY			
Vector Packet Processing	Yes	No	No
Data Plane Development Kit	Yes	Yes	Yes
Routing Performance	1 Tbps+	< 25 Gbps	100 Gbps

About Netgate

Netgate is a global leader in secure, high-performance networking solutions with over 20 years of experience. As the exclusive provider of pfSense products, the world's leading firewall with over 11 million installs, Netgate ensures robust protection and reliability for businesses, governments, and educational institutions worldwide.