

BROCADE VYATTA 5410 vROUTER

NETWORK FUNCTIONS VIRTUALIZATION

Flexible, Affordable, Software Routing and Security

The Brocade® Vyatta® 5410 vRouter delivers advanced routing for physical, virtual, and cloud networking environments. It includes dynamic routing, Policy-Based Routing (PBR), stateful firewall, VPN support, traffic management, and more in a package that is optimized to perform in virtualized environments. All features are configured through a familiar, networking-centric CLI, Web-based GUI or third party management systems using the Remote Access API.

The Brocade Vyatta 5410 vRouter supports all commonly used hypervisors or it can be installed on any standard x86 based system. Advancements in x86 processing power have proven that readily available multi-core systems can easily handle small packet processing and deep packet inspection up to 10 Gbps.

All Brocade Vyatta subscription customers receive our world-class software along with Essential Software Support. Essential Software Support provides worldwide 24x7 (including holidays) access to the Technical Assistance Center (TAC) (available through phone, e-mail, and Web), software updates,

technical documentation, online training and certification, and around-the-clock access to MyBrocade (online self-service portal).

NETWORK CONNECTIVITY

At the core of the system is a routing engine with full support of IPv4 and IPv6 dynamic routing protocols (BGP Multipath, OSPF, RIP, Multicast) and Policy-Based Routing. This includes support for 802.11 wireless, Serial WAN Interfaces and a wide variety of 10/100 through 10 Gb Ethernet NICs.

FIREWALL PROTECTION

The Brocade Vyatta firewall features IPv4/IPv6 stateful packet inspection to intercept and inspect network activity and protect your critical data. Advanced firewall capabilities include zone and time-based firewalling, P2P filtering and more.

ADDITIONAL PROTECTION

Brocade Vyatta vRouters offer an additional level of proactive threat protection with integrated secure web filtering available as subscription-based services.

BROCADE

BROCADE VYATTA 5410 vROUTER

- Advanced IPv4 and IPv6 routing (BGP Multipath, PBR, OSPF)
- Multicast*
- Stateful firewall
- IPv6 compatible
- Linux-based extensible network OS
- IPSec and SSL-based OpenVPN
- Dynamic Multipoint VPN*
- Secure Web filtering*
- VMware, Hyper-V, Xen/XenServer, Red Hat KVM Ready
- Restful API, CLI, Web GUI*
- World-class 24x7 support*

*subscription edition only

RELIABLE SUPPORT OPTIONS

Essential Support

- 24x7 access to Brocade Technical Support expertise, reducing time to resolution
- Provides unmatched expertise in data center networking to optimize network performance
- Simplifies management through online technical support tools

SECURE CONNECTIVITY

Organizations can establish secure site-to-site VPN tunnels with standards-based IPSec VPN between two or more Brocade Vyatta vRouters or any IPSec VPN device. Or they can provide secure network access to remote users via Brocade's SSL-based OpenVPN functionality. Dynamic Multipoint VPN now available.

TRAFFIC MANAGEMENT

The Brocade Vyatta vRouter provides a variety of QoS queuing mechanisms that can be applied to inbound traffic and outbound traffic for identifying and prioritizing applications and traffic flows.

HIGH AVAILABILITY

Mission critical networks can deploy Brocade Vyatta vRouters with the confidence that high availability and system redundancy can be achieved through a industry standard failover and synchronization mechanisms.

IPV6 COMPATIBILITY

Subscription Edition software is a software-based routing and security solution with proven IPv6 functionality and interoperability, ensuring a smart investment in a solution that offers a simplified migration path from IPv4 to IPv6.

ADMINISTRATION AND AUTHENTICATION

Brocade Vyatta vRouters can be managed through our familiar network-centric command line interface, web-based GUI, or through external management systems using the Remote Access API. All network management sessions can be securely managed using SSHv2, RADIUS, or TACACS+.

MONITORING AND REPORTING

Brocade Vyatta vRouters present complete logging and diagnostics information that can be monitored using in industry standard toolsets such as SNMP, Netflow, Syslog Wireshark, and more.

	Open Source	Subscription Edition
Routing, OSPF, BGP	•	•
Firewall, NAT, VPN	•	•
API, Common Data Model		•
Restful API		•
24x7 Technical Support		•
Stable, QA'd Image		•
Web GUI, Dashboard		•
Multicast Support		•
Dynamic Multipoint VPN		•

THE BROCADE ADVANTAGE

- **Scalability:** Choosing a software networking solution delivers freedom that has never been available from a routing and security vendor. By offering a software-only option, Brocade puts the freedom in your hands to right-size your network as needed using readily available off-the-shelf components and systems to drive as little or as much performance as your network requires today.
- **Performance:** The performance scale available from x86 hardware is continually expanding. Today's multi-core servers have been proven to deliver up to 10 Gbps routing throughput and faster processors are always on the horizon.
- **Price:** Leveraging open standards in software and hardware allows us to deliver a feature competitive routing and security product for enterprise, government, education and service provider networks at a fraction of the price of common proprietary hardware-based vendor systems.

BROCADE VYATTA 5410 vROUTER RELEASE 6.6

IPv4 / IPv6 Routing

- BGPv4, BGPv6
- OSPFv2
- BGP Multipath
- RIPv2
- Static Routes
- Policy-Based Routing (PBR)
- IPv6 Policy
- IPv6 SLAAC
- Multicast

IP Address Management

- Static
- DHCP Server
- DHCP Client
- DHCP Relay
- Dynamic DNS
- DNS Forwarding
- IPv6 DNS Resolver
- IDHCPv6 Server, Client
- DHCPv6 Relay

Encapsulations

- Ethernet
- 802.1Q VLANs
- PPP
- PPPoE
- IP in IP
- Frame Relay
- MLPPP
- HDLC
- GRE

Firewall

- Stateful Inspection Firewall
- Zone-based Firewall
- P2P Filtering
- IPv6 Firewalling
- Time-based Firewall Rules
- Rate Limiting
- ICMP Type Filtering
- Stateful Failover

Tunneling / VPN

- SSL-based OpenVPN
- Site to Site VPN (IPSec)
- Remote VPN (PPTP, L2TP, IPSec)
- OpenVPN Client Auto-Configuration
- Layer 2 Bridging over GRE
- Layer 2 Bridging over OpenVPN
- OpenVPN Dynamic Client
- Dynamic Multipoint VPN

Additional Security

- Network Address Translation
- VyattaGuard Web Filtering
- 3DES, AES Encryption
- MD5 and SHA-1 Authentication
- RSA, Diffie Helman Key Mgmt
- NAT Traversal
- Role based access control

WAN / LAN Device Drivers

- WAN Device Drivers - T1/E1
- Intel 10/100Mbps - 10 Gbps
- Broadcom 10/100Mbps - 10 Gbps
- IEEE 802.11 wireless
- Drivers in 2.6.31 Linux Kernel
- Synchronous Serial - V.35, X.21, RS-422, EIA530

Performance Optimization

- WAN Link Load Balancing
- Ethernet Link Bonding
- Web Caching
- MLPPP
- ECMP
- Bandwidth Management

QoS Policies

- Priority Queuing
- Network Emulator
- Round Robin
- Random / Weighted Random
- Classful Queuing
- Ethernet Header Matching
- VLAN Tag
- IPv6 Address
- Port Mirroring

High Availability

- Stateful Firewall / NAT Failover
- VRRP
- HA Clustering
- Configuration Replication
- RAID 1
- IPSec VPN Clustering
- Protocol Fault Isolation

Administration and Authentication

- Integrated CLI
- Web GUI
- Brocade Vyatta Remote Access API
- Telnet
- SSHv2 / SSH Public Key
- Binary Image Install
- Image Cloning
- RADIUS
- TACACS+
- X.509 digital certificate auth.
- Single Configuration File

Diagnostics and Logging

- tcpdump
- Wireshark Packet Capture
- BGP MD5 Support
- Serial Loopback Commands
- Netflow / sFlow
- LLDP
- Syslog
- SNMPv2c
- SNMP for IPv6

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