BROCADE VYATTA 5400 vROUTER

Flexible, Affordable Software Routing and Security

The Brocade® Vyatta® 5400 vRouter delivers advanced routing for physical, virtual, and cloud networking environments. It includes dynamic routing, Policy-Based Routing (PBR), stateful firewall, VPN support, and traffic management in a solution optimized for virtualized environments. All features can be configured through a familiar, network-centric Command Line Interface (CLI), a Web-based GUI, or external management systems using the Brocade Vyatta Remote Access API.

The Brocade Vyatta 5400 vRouter supports all commonly used hypervisors and can be installed on any standard x86-based system. All Brocade Vyatta 5400 vRouter subscription customers receive Brocade world-class software along with Essential Support. Brocade Essential Support provides 24×7 (including holidays) access to the Brocade 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 PBR. This includes support for 802.11 wireless, serial WAN interfaces, and a wide variety of Ethernet interfaces supporting 10/100/1000 Mbps and 10 Gbps Ethernet NICs.

FIREWALL PROTECTION
The Brocade 5400 Vyatta vRouter firewall features IPv4/IPv6 stateful packet inspection to intercept and inspect network activity and protect critical data. Advanced firewall capabilities include zone- and time-based firewalling and P2P filtering.

HIGHLIGHTS
• Delivers advanced routing and security services for physical, virtual, and cloud networking environments
• Features dynamic routing, Policy-Based Routing (PBR), stateful firewall, VPN support, and traffic management in a solution optimized for virtualized environments
• Delivers a robust, Linux-based, and extensible OS
• Supports all commonly used hypervisors and can be installed on any standard x86-based system
• Includes world-class, 24×7 support to help maximize performance

*Performance is dependent on CPU type, speed and quantity. Performance will vary based on configuration and deployment type.
SECURE CONNECTIVITY
Organizations can establish secure site-to-site VPN tunnels with standards-based IPsec VPN between two or more Brocade Vyatta 5400 vRouters or any IPsec VPN device. Or they can provide secure network access to remote users via Brocade SSL-based OpenVPN functionality. Dynamic Multipoint VPN (DMVPN) is now available.

TRAFFIC MANAGEMENT
The Brocade Vyatta 5400 vRouter provides a variety of QoS queuing mechanisms that can be applied to inbound and outbound traffic for identifying and prioritizing applications and traffic flows.

HIGH AVAILABILITY
Mission-critical networks can deploy Brocade Vyatta 5400 vRouters with the confidence that high availability and system redundancy can be achieved through industry-standard failover and synchronization mechanisms.

IPv6 COMPATIBILITY
The Brocade Vyatta 5400 vRouter is the only 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 5400 vRouters can be managed through a familiar network-centric CLI, a Web-based GUI, or external management systems using the Brocade Vyatta Remote Access API. All network management sessions can be securely managed using SSHv2, RADIUS, or TACACS+.

MONITORING AND REPORTING
Brocade Vyatta 5400 vRouters present complete logging and diagnostics information that can be monitored using industry-standard tools such as SNMP, Netflow, sFlow, and Syslog Wireshark.

THE BROCADE ADVANTAGE
Brocade networking solutions offer organizations several advantages, including:

- **Scalability:** By offering a software-only option, Brocade gives organizations the unique freedom to right-size their networks as needed using readily available, off-the-shelf components and systems to drive as little or as much performance as their network requires today.
- **Performance:** The performance scale available from x86 hardware is continuously expanding. Today’s multicore servers can deliver up to 10 Gbps routing throughput, and faster processors are on the horizon.
- **Price:** By leveraging open standards in software and hardware, Brocade delivers a feature-competitive routing and security solution for enterprise, government, education, and service provider networks at a fraction of the cost of common proprietary hardware-based vendor systems.

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BROCADE VYATTA 5400 vROUTER SPECIFICATIONS

**IPv4 / IPv6 Routing**
- BGPv4, BGPv6
- OSPFv2
- OSPFv3
- BGP Multipath
- RIPv2

**IP Address Management**
- Static Routes
- Policy-Based Routing (PBR)
- IPv6 Policy
- IPv6 SLAAC
- Multicast

**Encapsulations**
- Ethernet
- 802.1Q VLANs
- PPP
- PPPoE
- IP in IP

**Firewall**
- Stateful Inspection Firewall
- Zone-based Firewall
- P2P Filtering
- IPv6 Firewalling

**Tunneling / VPN**
- SSL-based OpenVPN
- Site to Site VPN (IPsec)
- Remote VPN (PPTP, L2TP, IPsec)
- OpenVPN Client Auto-Configuration

**Additional Security**
- Network Address Translation
- 3DES, AES Encryption
- MD5 and SHA-1 Authentication

**WAN / LAN Device Drivers**
- WAN Device Drivers - T1/E1
- Intel 10/100/1000 Mbps
- Broadcom 10/100/1000 Mbps

**Performance Optimization**
- WAN Link Load Balancing
- Ethernet Link Bonding
- MLPPP

**QoS Policies**
- Priority Queuing
- Network Emulator
- Round Robin
- Random / Weighted Random
- Classful Queuing

**High Availability**
- Stateful Firewall / NAT Failover
- VRRP
- Configuration Replication

**Administration and Authentication**
- Integrated CLI
- Web GUI
- Brocade Vyatta Remote Access API
- Telnet
- SSHv2 / SSH Public Key
- Binary Image Install

**Diagnostics and Logging**
- tcpdump
- Wireshark Packet Capture
- BGP MD5 Support
- Serial Loopback Commands
- Netflow / sFlow

**Brocade Global Services**
Brocade Global Services has the expertise to help organizations build scalable, efficient cloud infrastructures. Leveraging 15 years of expertise in storage, networking, and virtualization, Brocade Global Services delivers world-class professional services, technical support, network monitoring services, and education, enabling organizations to maximize their Brocade investments, accelerate new technology deployments, and optimize the performance of networking infrastructures.

**Maximizing Investments**
To help optimize technology investments, Brocade and its partners offer complete solutions that include professional services, technical support, and education. For more information, contact a Brocade sales partner or visit [www.brocade.com](http://www.brocade.com).