

Multitenant Cloud Security

Security and Compliance in Shared Resource Cloud Environments

Multitenant cloud security is a critical concern for cloud service providers and end users alike. One significant challenge involves maintaining compliance to corporate and regulatory standards, while leveraging the shared infrastructure model's cost benefits and improved operational efficiency. In order to meet this challenge, the cloud network architecture must enable security policies to be enforced exactly as they are within the enterprise network—that is, each tenant must have their own private, isolated, and secure virtual network security infrastructure.

The Brocade vRouter Advantage

Complete Brocade vRouter in a Single Virtual Package

The Brocade vRouter is optimized to run in virtual environments to enforce security policies, and manages traffic in the same way that a physical router, firewall or VPN device does in traditional infrastructure.

Complex N-Tier Security

Mature routing, firewall, and VPN capabilities enable tenants to define advanced multitier networks, preserving complex security and compliance policies enforced in local physical networks.

Combat VLAN Sprawl

Deploying the Brocade vRouter on a per-customer basis provides application isolation and security policy compliance while minimizing reliance on VLANs. This

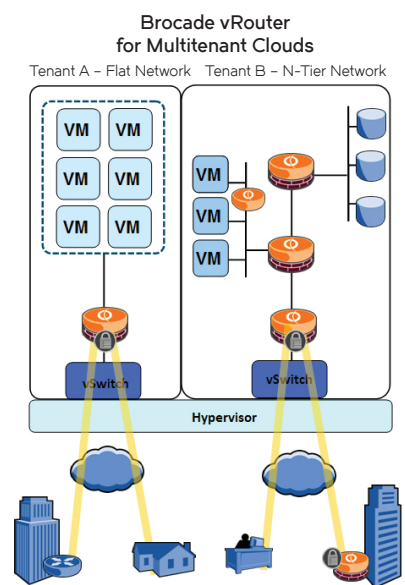


Figure 1: A multitenant private cloud service with dedicated virtual FW/VPN and connectivity enables tighter control over VM sprawl and eliminates the need for external physical networking appliances.

Table 1: Competitive Landscape.

	Brocade vRouter	VMware vShield	Juniper vGW	Cisco VSG
Stateful Firewall	Yes	Yes	Yes	Yes
IPSec and SSL VPN	Yes	IPSec only	No	No
Open Management API	Yes, REST	No	Yes, XML	No
Secure Cloud Bridging	Yes	No	No	No
Auto-Provisioning	Any System	vCenter	?	vCenter
Hypervisor Readiness	VMware, Hyper-V, Xen/XenServer, Red Hat KVM	VMware	VMware, Xen	VMware
Platform Dependencies	None	VMware ESX	Juniper SRX	Nexus 1000V

also eliminates unnecessary latency, by reducing multi-trip packet flows between the hypervisor and external physical devices.

Auto Provisioning and Remote Management

The Remote Access API and advanced configuration scripting options enable simplified management, orchestration and provisioning through third-party tools. The result is simple button-click deployment and user-defined, template-based configuration of network connectivity and security.

Utility Licensing

Replacing a hardware-based CapEx infrastructure investment strategy with a software-based OpEx solution results in

faster ROI, greater flexibility and lower risk when structuring cloud service offerings. Brocade vRouter solutions are available in monthly pay-per-use billing options that map directly to utility cloud computing consumption models.

About Brocade

Brocade networking solutions help organizations transition smoothly to a world where applications and information reside anywhere. Innovative Ethernet and storage networking solutions for data center, campus, and service provider networks help reduce complexity and cost while enabling virtualization and cloud computing to increase business agility.

Learn more at www.brocade.com.

Corporate Headquarters

San Jose, CA USA
T: +1-408-333-8000
info@brocade.com

European Headquarters

Geneva, Switzerland
T: +41-22-799-56-40
emea-info@brocade.com

Asia Pacific Headquarters

Singapore
T: +65-6538-4700
apac-info@brocade.com



© 2015 Brocade Communications Systems, Inc. All Rights Reserved. 08/15 GA-AG-488-02

ADX, Brocade, Brocade Assurance, the B-wing symbol, DCX, Fabric OS, HyperEdge, ICX, MLX, MyBrocade, OpenScript, The Effortless Network, VCS, VDX, Vplane, and Vyatta are registered trademarks, and Fabric Vision and vADX are trademarks of Brocade Communications Systems, Inc., in the United States and/or in other countries. Other brands, products, or service names mentioned may be trademarks of others.

Notice: This document is for informational purposes only and does not set forth any warranty, expressed or implied, concerning any equipment, equipment features, or service offered or to be offered by Brocade. Brocade reserves the right to make changes to this document at any time, without notice, and assumes no responsibility for its use. This information document describes features that may not be currently available. Contact a Brocade sales office for information on feature and product availability. Export of technical data contained in this document may require an export license from the United States government.

