Security for Virtualized Environments

The first comprehensive security solution for Windows and Unix servers or desktops, in environments powered by any virtualization technology

Organizations today look to virtualization technologies to increase the return on investment in datacenter infrastructure. Consolidation of server and end-user workloads onto shared infrastructure has led to cost reductions by deduplication of hardware resources. Virtualization also provides significant operational benefits through near-instant provisioning as organizations create and leverage private and public clouds.

To realize the full potential of virtualized datacenters, organizations must also look to consolidating elements of the workloads themselves, security being an element that must be present across all workloads. In gaining ever-higher consolidation ratios and operational benefits, organizations must not sacrifice security while their valuable brands become increasingly threatened by ever-more dedicated, sophisticated, and focused attackers.

Security for Virtualized Environments by Bitdefender is the first comprehensive security solution for virtualized datacenters. The solution protects virtualized Windows, Linux, and Solaris systems - both servers and desktops. Integrated with VMware vShield and VMware vCenter, its unique architecture also allows it to defend systems running on any system virtualization technology. As organizations increase consolidation ratios, Bitdefender security that has been designed, from day one, to provide highly advanced, proactive, and reliable security in virtualized environments is a cornerstone of building and enhancing datacenter virtualization strategies.

Key benefits

- Defends the virtualized environment with number-one-ranked technology*
- Generates significant cost reductions through higher consolidation ratios
- Provides patent-pending high-performance security technologies designed for virtualized environments
- Prevents AV storms caused by simultaneous scans on a single host
- Protects file systems, processes and memory on Windows, Linux and Solaris
- Integrates with VMware vShield 5 and extends to Citrix, Microsoft, Oracle, or any other virtualization platforms
- Provides visibility into datacenter's security through web-based console
- Integrates security management with VMware vCenter and Citrix XenServer
- Ensures permanent high-performance protection, always updated and alert

Bitdefender®

Comprehensive security

Bitdefender addresses the needs of the most challenging and dynamic datacenters with Security for Virtualized Environments. In areas of a datacenter that are built on VMware, it's the first product that integrates with VMware vShield 5 (Endpoint 2.0). Recognizing the need to provide comprehensive security in the most demanding and heterogeneous datacenters, Bitdefender's solution has been architected to include coverage of:

- Virtualized servers and desktops
- VMware, Citrix, Microsoft, Oracle, or any other system virtualization technology
- Windows, Linux, and Solaris
- File system, process, and memory scanning

System requirements

Security for Virtualized Environments by Bitdefender is delivered within a Security Virtual Appliance running on a hardened Linux Server and is managed by the web-based Bitdefender Security Console.

Compatibility:

- ○ VMware vSphere 5.0, 4.1 (incl. ESXi 4.1 P3, 5.0 P1) for vShield Endpoint integration
- ○ Citrix XenDesktop, XenServer 5.6 for management integration
- ○ Microsoft Hyper-V Server 2008 R2
- ○ Oracle VM 3.0
- ○ Red Hat Enterprise Virtualization 3.0, 2.2 with KVM
- ○ Parallels Desktop 7, VMware Workstation, Server and Player for testing environments

More information at
www.bitdefender.com/sve

Bitdefender's scalable security architecture

Security Console by Bitdefender is a central web interface used for deploying, configuring, monitoring, and reporting on the security status of datacenters and end-user systems. Built on Bitdefender Gravity Architecture a single Security Console and data store horizontally scale from the smallest to largest deployment with ease. Security Console acts as a hub for all Bitdefender security technologies, with ever-more Bitdefender solutions being rapidly and seamlessly incorporated into Security Console.

Security for Virtualized Environments by Bitdefender is based on a hardened Linux scanning virtual appliance. When using traditional security solutions, much of the scanning and maintenance (updates, upgrades, RAM, IOPS, etc.) requirements of antimalware clients are duplicated with each virtual machine. Bitdefender's solution deduplicates and centralizes much of the scanning functionality at a single, dedicated virtual appliance on each physical host. The relationship between the virtual appliance and protected systems is interactive and intelligent. Patent-pending technology that includes a series of sophisticated cache mechanisms acts to provide deduplication of effort within Bitdefender's solution itself. By being virtualization-aware via integration with VMware vCenter, Security Console guarantees that no host is overwhelmed during even the most intense full-system scans of multiple virtual machines. This approach will avoid a condition known as "resource contention" or "AV storm" that results from full antimalware clients across multiple virtual machines competing for host resources, thus preventing the host from servicing production workloads.

About Bitdefender

Bitdefender consistently creates number-one-ranked and award-winning security solutions. Since 2001, Bitdefender has continuously raised the bar in security. From individuals to the largest enterprises, Bitdefender innovations foster confidence, and the freedom to conduct business, by defending data and brand integrity. Every day, Bitdefender secures the digital experience of tens of millions of home and corporate users across the globe. Bitdefender solutions are distributed by a global network of value-added distribution and reseller partners in countries across the world.