



Protect what you value.

# McAfee Total Protection for Virtualization

## Proven, comprehensive protection for virtual servers

Virtualization technologies improve hardware utilization and reduce costs, but also introduce new security challenges. Security risks extend well beyond those of physical systems to include additional threats that are specific to the virtualized environment. For comprehensive protection for virtual servers, turn to McAfee® Total Protection for Virtualization, the industry's most complete and scalable security solution with integrated, centralized management for security and compliance, so that your enterprise can safely benefit from virtualization.

Companies ordinarily deploy security for physical servers, but may have rushed into dangerous practices by deploying virtual servers without a plan to secure them. The amount of malware continues to rise at an astonishing rate, with new threats in 2008 projected to grow over 300 percent compared to 2007<sup>1</sup>. With more than 32 percent<sup>2</sup> of exploits released within three days of vulnerability disclosure, organizations are nearly always at risk, as the average enterprise takes 32 days to deploy server patches.<sup>3</sup> Attacks are increasing even as companies implement strict security policies, as cybercriminals continue to develop new, sophisticated ways to perpetrate crime. Attacks and malware in virtual servers can put your entire IT infrastructure at risk.

### Protect Your Investment in Virtualization

McAfee is an innovator in protecting virtualized environments so that enterprises can safely unlock the potential of virtualization platforms. McAfee Total Protection for Virtualization offers proven protection for virtualized servers that lowers operational costs and simplifies internal and regulatory compliance. Unlike vendors that address only one aspect of securing virtualized environments, McAfee offers the industry's most complete and scalable security solution—managed by McAfee ePolicy Orchestrator® (ePO™) for integrated, centralized security and compliance management—for both physical and virtual environments.

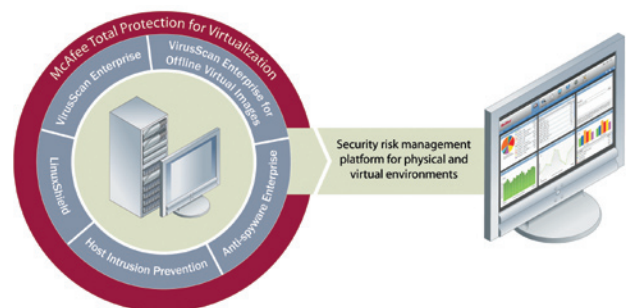
### The Benefits of Total Protection for Virtualization

McAfee Total Protection for Virtualization offers proven protection for virtualized servers, lowers operational costs,

and ensures greater compliance. Your organization reaps the benefits of:

- **Stronger protection**—comprehensive, layered protection against malware, rootkits, spyware, bots, spam, zero-day threats, vulnerabilities, data loss, and data exposure for virtual machines
- **Lower costs**—a single management console and automatic updating reduce the time and resources required for secure virtualization management to improve operational efficiencies
- **Simplified compliance**—automated reports, verified and audited virtual machines, and integration with McAfee and third-party compliance tools enables easier compliance to key industry regulations

This solution protects virtual servers and critical data by enforcing security policies for your virtual systems. McAfee is the most committed security company collaborating closely with leading virtualization vendors to increase security and to strengthen McAfee's industry-leading protection solutions in virtualized environments.



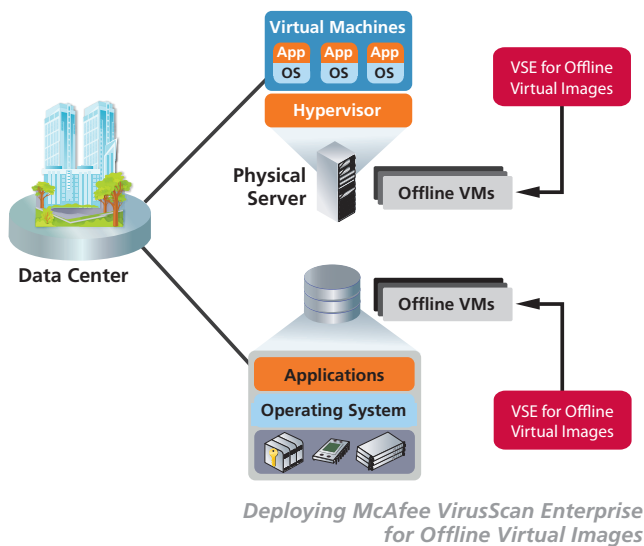
1 McAfee Avert Labs, 2008  
 2 McAfee Avert Labs, 2008  
 3 Forrester: "The State of Server Operating System Security 2007—Administrators Patch an Average of Eight Days Late", June 2007

*McAfee provides total protection across physical and virtual environments.*

## Keep Offline Virtual Images Secure

One of the key advantages of virtual servers is that enterprise applications are easier to provision and deploy than with physical servers. As virtual machines proliferate and their system images are periodically taken offline, these offline images can fall behind the upgrade cycle of security patches and be susceptible to vulnerabilities. When these archived images are activated again, their security profiles are precariously out of date and could put your organization's entire infrastructure at risk.

McAfee VirusScan® Enterprise for Offline Virtual Images is the industry's first purpose-built security solution for offline virtual environments. It automatically scans, cleans, and updates virtual images without having to bring them online. When offline virtual machines are finally brought back online, their anti-malware security profiles are already updated to ensure that the system images pose no security threat. Because scanning, cleaning, and signature updating is automated, it reduces the time and effort previously spent on bringing virtual machines back online for updates and maintenance.



## Proactively Protect the Entire Enterprise

Keeping virtual servers free from a wide range of complex, blended threats—viruses, worms, rootkits, and Trojans—is more challenging than ever. According to the National Vulnerability Database, virtualization-specific vulnerabilities grew over 400 percent from 2006 to 2007.<sup>4</sup> McAfee VirusScan Enterprise proactively stops and removes threats, extends coverage for new security risks, and reduces the cost of managing outbreak responses. McAfee VirusScan Enterprise uses the award-winning McAfee scanning engine

to detect and clean malware such as viruses, worms, rootkits, bots, and Trojans. Access protection rules prevent malware from making changes to files, registry keys, and utilities within virtual machines for greater protection. McAfee offers the industry's first anti-malware software that offers intrusion prevention with application-specific buffer overflow technology to protect your enterprise proactively against buffer overflow exploits that target vulnerabilities in Microsoft applications.

For Linux systems, McAfee VirusScan Enterprise for Linux offers continuous on-access scanning for superior protection from the growing number of viruses, worms, and other malicious code. Designed for the realities of today's fast-moving, highly adaptive businesses, McAfee VirusScan Enterprise for Linux is easily scalable, updates automatically, and can be centrally managed from a single console.

## Safely Eliminate Spyware and Adware

Adware and spyware slows down servers and Internet access, reduces performance and productivity, and possibly opens your enterprise to confidential data loss and system corruption. To eliminate these risks, you need to quickly detect, proactively block, and safely eliminate adware and spyware before they can cause damage.

McAfee Anti-spyware Enterprise uses unique on-access scanning to identify, proactively block, and safely eliminate spyware and other potentially unwanted programs. Catching these programs once and stopping them before they install themselves is much more effective than waiting until they have a chance to install and multiply.

## Block Zero-Day Threats

With the rapid growth of blended threats and profit-motivated cybercrime, one of your top challenges is to successfully protect your servers and information assets. You must aggressively deploy security technologies that grant IT the zero-day protection and time it needs to properly prioritize, plan, test, and deploy patches to prevent business disruptions.

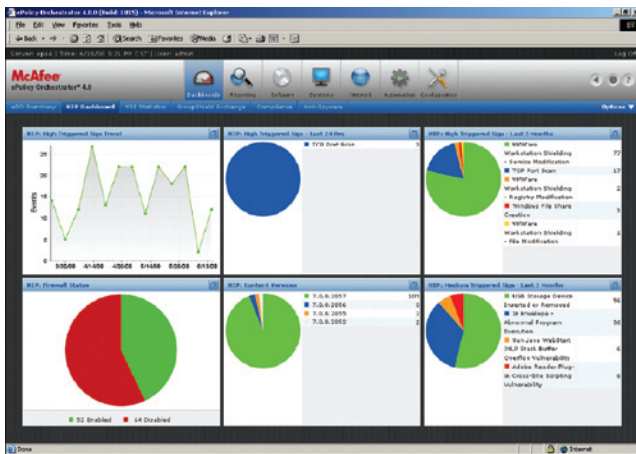
McAfee Host Intrusion Prevention (Host IPS) for server monitors and blocks unwanted activity and proactively protects against known and unknown zero-day threats. It combines signature and behavioral intrusion prevention system (IPS) protection with a stateful firewall and application control. Host IPS helps you maintain server uptime, preserve business continuity, reduce patching frequency and urgency, protect confidential data, and simplify regulatory compliance.

4 National Vulnerability Database, 2008

## Reduce Costs for Security Management

As threats increase in number and complexity, security management costs also escalate, as more and more IT resources are spent fighting them. Your enterprise needs an easy-to-use, integrated management platform that enables intelligent security and compliance optimization.

McAfee provides the industry's first and only platform to deliver integrated, centralized management for security and compliance solutions for both virtual and physical environments on a single console. McAfee ePO is the most popular and respected security management technology, used by over 35,000 customers to manage over 60 million PCs and servers. Compared to old-style point solutions, ePO dramatically simplifies installation and maintenance of defenses and associated rules and policies. Administrators can keep protection up to date, configure and enforce protection policies, and monitor security status 24/7, all from one centralized, web-based console. Reduce costs and complexity by deploying a single integrated agent and console across multiple security products so that when policies need to be updated as threats and regulations change, they can be done quickly, accurately, and consistently.



*ePolicy Orchestrator makes viewing security and compliance data easy.*

## Simplified Compliance

Your company is under pressure not only from increasingly sophisticated threats, but also from regulations that require you to verify and report on security compliance. McAfee ePO helps you meet your compliance requirements and prove to all stakeholders that security measures are in place for internal and regulatory compliance. Customizable dashboards provide real-time compliance status. You can even gather attack details such as type, vector, source, severity, timestamp, and more—all in clear and easy-to-understand wording—for prompt reporting, audit, investigation, and response.

## Protected by McAfee Avert Labs

McAfee Avert® Labs is the global research team of McAfee, Inc. With research teams devoted to malware, potentially unwanted programs, host intrusions, network intrusions, mobile malware, and ethical vulnerability disclosure, Avert Labs enjoys a broad view of security. This expansive vision allows McAfee's researchers to continually improve security technologies and better protect the public.

## McAfee Solution Services

Along with our McAfee SecurityAlliance™ partners, McAfee offers a wide variety of services to help you assess, plan, deploy, tune, and manage your security. Learn more at [http://www.mcafee.com/us/enterprise/services/product\\_consulting](http://www.mcafee.com/us/enterprise/services/product_consulting).

## Learn More

Visit [http://www.mcafee.com/us/enterprise/products/virtualization/tops\\_virtualization.html](http://www.mcafee.com/us/enterprise/products/virtualization/tops_virtualization.html) or call us at 888.847.8766, 24 hours a day, seven days a week. McAfee Total Protection for Virtualization is part of the McAfee family of business security products and services. McAfee provides a comprehensive portfolio of dynamic risk-management and mitigation solutions that secure your business advantage.

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