

## MEDIA BACKGROUNDER

### VMware vShield™ 5: The Foundation for Trusted Cloud Infrastructures

#### Overview

[Announced July 12, 2011 at the VMware Cloud Infrastructure Launch event in San Francisco](#), updates to the VMware vShield™ 5 product family will include new sensitive data discovery and intrusion detection capabilities.

Security and compliance remain key concerns for enterprises in their journey to cloud computing and represent significant barriers to mainstream adoption of this new approach to IT. Current approaches to security are anchored to physical infrastructure elements, relying on physical security appliances to create static “air-gaps,” and traditional in-guest anti-virus agents that are cumbersome to patch and impact performance. The dynamic nature of cloud environments, where applications and services are mobile and leverage shared infrastructure, requires a new approach.

The VMware vShield product family delivers an improved security model specifically designed to overcome these challenges by supporting a software-based approach to application and data security in virtual and cloud environments. First [introduced at VMworld® in August 2010](#), the vShield product family ([vShield App™](#), [vShield Edge™](#), [vShield Endpoint™](#)) delivers virtualization-aware security that unlocks the benefits of cloud computing, reduces security cost and complexity, and accelerates IT compliance.

#### VMware vShield 5 Features and Benefits

The VMware vShield product family delivers a single framework to protect cloud environments, enabling customers to consolidate security infrastructure and eliminate sprawl associated with multiple software agents, security policies, and security appliances. Enhancements to VMware vShield 5 will include:

- **VMware vShield App with Data Security for compliance confidence**

VMware vShield App is a hypervisor-based, application aware-firewall that installs on each VMware vSphere host, creating and enforcing logical, dynamic application boundaries – trust zones – based on policies, rather than physical boundaries. VMware vShield 5 will introduce new capabilities for data security resulting from a longstanding and ongoing collaboration with RSA to optimize security for virtual and cloud environments. Data Security will enable enterprises to discover and classify sensitive data residing within virtual machines (VMs).

With more than 80 pre-defined templates that include country and industry specific regulations, customers will be able to select the policies they care about and VMware vShield App 5 with Data Security will continuously scan VMs looking for related data, such as credit card or driver’s license information, and provide a detailed report of the findings. VMs discovered to contain sensitive data can be segmented off into adaptive trust zones that provide different levels of isolation. With VMware vShield App 5 with Data Security, customers can achieve improved performance by offloading data discovery functions to a virtual appliance and reduce the risk of non-compliance and reputation damage.

- **Optimize Intrusion Protection for Virtual and Cloud Environments**

With VMware vShield App 5, VMware will extend the product’s ability to protect applications and data from network-based threats by enhancing its grouping capabilities, making it possible to create and manage more sophisticated, granular trust zones. In addition, VMware vShield App 5 will include a network layer 2 firewall and will be optimized to support Intrusion Prevention Systems (IPS) from VMware security partners. This capability will monitor for intrusions and automatically quarantine any compromised

VMs. VMware is collaborating with leading security vendors such as HP TippingPoint and Sourcefire to integrate and deliver next-generation IPS systems based on vShield.

VMware is working closely with leaders in the security industry to deliver a new generation of security solutions optimized for virtual and cloud environments. VMware's approach is to continue to evolve the vShield product family to enable integrations with existing security solutions to optimize their capabilities for new cloud environments. The first instantiation of this is vShield Endpoint, which enables integration with antivirus and antimalware solutions. The intrusion detection integrations introduced in vShield App 5 extends this successful model, and VMware will continue delivering integration capabilities for other critical security technologies.

#### Comments on the News

- “With traditional security approaches, customers tie their security policies to rigid physical infrastructure, which restricts their ability to enforce policies when virtual machines move around due to changing business needs. And in securing cloud environments, there is a great level of concern about the ability of customers to stay in compliance with government regulations around sensitive data,” said **Mark Chuang, director product marketing, virtualization and cloud security, VMware**. “With the latest release of VMware vShield™, customers will have confidence that they can firewall around individual virtual machines no matter where they run, protect against network intrusions, and identify compliance exposure around sensitive data, thus reducing complexity and improving operational efficiency and IT compliance within their organization.”
- “It was important to proactively show our auditors security in a virtual environment was equal or even superior to that in a physical environment,” said **Roger Bearpark, Assistant Director for IT, London Borough of Hillingdon**. “With VMware vShield we ensured the auditors understood our approach and that we achieved the Payment Card Industry (PCI) compliance we needed.”

#### Pricing and Availability

The VMware vShield 5 product family is expected to be available in Q3 2011 and individual products will be licensed per VM starting at \$50 per VM. The vShield products can also be purchased together as a vShield bundle for \$300 per VM.

#### Additional Resources

- [Learn more](#) about VMware vShield 5
- [Get product graphics, datasheets and videos](#)
- [Learn more](#) about the VMware cloud infrastructure suite launch
- Read “[VMware Unveils VMware vSphere 5 and Cloud Infrastructure Suite](#)” blog post by VMware CTO, Steve Herrod
- Read “[VMware Building the Foundation for the Cloud Era](#)” blog post by VMware vice president of product marketing, Bogomil Balkansky
- Twitter: @VMwareEvents (hashtag #vmwarecloud)

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#### Forward-Looking Statements

This press release contains forward-looking statements including, among other things, the expected availability of VMware vShield 5, statements regarding the features that are expected to be available in VMware vShield 5, the expected benefits of VMware vShield 5 and the expected evolution of IT security. These forward-looking statements are subject to the safe harbor provisions created by the Private Securities Litigation Reform Act of 1995. Actual results could

differ materially from those projected in the forward-looking statements as a result of certain risk factors, including but not limited to: (i) adverse changes in general economic or market conditions; (ii) delays or reductions in information technology spending and government subsidies; (iii) competitive factors, including but not limited to pricing pressures, industry consolidation, entry of new competitors into the virtualization market, and new product and marketing initiatives by our competitors; (iv) our customers' ability to develop, and to transition to, new products and computing strategies, (v) the uncertainty of customer acceptance of emerging technology; (vi) rapid technological and market changes in virtualization software and platforms for cloud and desktop computing; (vii) changes to product development timelines; (viii) our ability to protect our proprietary technology; (ix) our ability to attract and retain highly qualified employees; and (x) the successful integration of acquired companies and assets into VMware. These forward looking statements are based on current expectations and are subject to uncertainties and changes in condition, significance, value and effect as well as other risks detailed in documents filed with the Securities and Exchange Commission, including our most recent reports on Form 10-K and Form 10-Q and current reports on Form 8-K that we may file from time to time, which could cause actual results to vary from expectations. VMware assumes no obligation to, and does not currently intend to, update any such forward-looking statements after the date of this release.

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