

# Deep Security and VMware NSX

## Defining a Security Framework for the Software Defined Data Center

### Securing the Software Defined Data Center

The Software Defined Data Center is an evolution and extension to server virtualization. While server virtualization dramatically maximizes the deployment of computing power, the Software Defined Data Center does the same for all of the resources needed to host an application, including storage, networking and security.

VMware NSX networking and security platform is a key element of VMware's vision for the Software Defined Data Center. Trend Micro and VMware are working closely together to develop joint solutions that extend NSX's core networking and security services with best-of-breed security deployed with enterprise-class scale and manageability.

Deep Security is Trend Micro's flagship server security solution for virtualized and private and public cloud environments. Since 2009, Deep Security has protected thousands of customers globally with best-in-class agentless security for VMware vSphere.

Trend Micro Deep Security is a comprehensive security platform designed to provide server, application and data security across physical, virtual and cloud servers. The platform includes anti-malware, firewall, IDS/IPS, web application protection, integrity monitoring and log inspection technologies in one single solution, enabling the prevention of data breaches and business disruptions and helping with regulatory compliance. It does this without sacrificing performance while simplifying operational complexity.

Building on a deep partnership between Trend Micro and VMware, the combination of NSX and Deep Security will enable increased protection and further automate security deployments for dynamic data center environments.

Trend Micro is working with VMware to enhance security integration with NSX in several key areas:

#### Simplified deployment and provisioning

Deep Security has long offered network and endpoint introspection through vSphere with the ability to easily provision to existing and new Virtual Machines (VMs). New integration capabilities delivered through NSX Service Composer will provide ability to further streamline the provisioning and deployment process, making it easier than ever before to deploy security across your data center.

#### Automated workflow across protection layers

Through the use of a new common NSX tagging and orchestration framework, administrators will be able to trigger vendor-defined or ad-hoc workflows based on security or administrative events. This could be used to automate real-time remediation and incident response during attacks, as well as to coordinate directly between Trend Micro and VMware security layers.

#### Elastic protection @ cloud scale

Businesses are deploying more elastic workloads in the cloud that scale with traffic. New abilities within NSX Service Composer allow protection to be defined at an abstract container-level using Security Groups. These enhancements will further optimize the process of deploying elastic workloads.

#### A history of joint development and innovation

- **2009** – Trend Micro Deep Security 7.0 is the first solution supporting introspection of network traffic through the hypervisor
- **2009** – Trend Micro releases first anti-malware introspection using VDDK. Trend Micro and VMware join hands in developing a next-generation Endpoint Security API allowing for full agent-less introspection of file systems
- **2010** – VMware vShield is launched with Deep Security 7.5 announced as the first and only partner solution to support VMware vShield - bringing to the world the first fully "agent-less" anti-malware
- **2011** – Trend Micro announces Deep Security 8.0, supporting the latest vShield security ecosystem, and offering the only fully agent-less security platform including anti-malware, intrusion prevention, and integrity monitoring
- **2012** – Trend Micro announces Deep Security 9.0 supporting the latest vSphere 5.1 platform, and providing security for hybrid clouds and vCloud-based service providers via vCloud Director integration
- **2013** – Trend Micro demonstrates prototype of Deep Security with NSX integration at VMworld. Trend Micro supports the VMware Hybrid Cloud Service.

## Security Optimized for Virtual and Cloud Environments

With over thousands of agentless customer deployments, Trend Micro Deep Security is proven to improve security, manageability, and VM density. Trend Micro has received numerous accolades and recognition for virtualization including being ranked #1 in market share for server security (which includes virtualization and cloud security) for the past three years by IDC<sup>1</sup>, and being awarded best Secure Virtualization Solution in 2013 by SC Magazine.



Trend Micro has led the server security market with multiple significant “firsts”:

- *First and only* agentless security suite for the VMware hypervisor
- *First and only* security to integrate with cloud platforms including Amazon EC2 and VMware vCloud
- *First and only* security architecture designed for service providers and enterprises with software defined datacenters, with support for multi-tenancy, auto-scaling, utility computing and self-service



The VMware NSX platform represents the latest step forward for VMware and Trend Micro to define the next generation security framework for virtualized and cloud environments.

### Joint Trend and VMware Technology Benefits with NSX

- **Simplify** security deployment and provisioning with new integration capabilities within NSX Composer
- **Automate** workflow across protection layers using new NSX tagging capabilities
- Provide **elastic protection** at cloud scale with new NSX abilities to define protection at the container-level

### Contact and Availability

If you are a VMware vSphere customer and interested in participating in early access trials and providing feedback on Trend Micro integrated solutions with NSX, or would like to be notified of upcoming product news, please contact Warren Wu in our Product Management group at Trend Micro at [warren\\_wu@trendmicro.com](mailto:warren_wu@trendmicro.com)

Learn more at [trendmicro.com/virtualization](http://trendmicro.com/virtualization)

1. Source: IDC, 2012 Worldwide Corporate Endpoint Server Security Revenue Share by Vendor, 2011

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