



Trend Micro™

# 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 provides dramatic efficiencies in 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.

The 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 scaling and manageability.

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

The integration of Trend Micro Deep Security with NSX extends Trend Micro's security services platform including anti-malware, firewall, IDS/IPS, web application protection, integrity monitoring, and log inspection to the software-defined data center, enabling customers to leverage combined strengths for better security and automation.

### A notable history of joint development and innovation

- **2009** - Trend Micro Deep Security 7.0 was the first solution supporting introspection of network traffic through the hypervisor
- **2009** - Trend Micro released the first anti-malware introspection using VDDK. Trend Micro and VMware joined forces to develop a next-generation Endpoint Security API allowing for full agentless introspection of file systems
- **2010** - VMware vShield launched with Deep Security 7.5, the first and only partner solution to support VMware vShield—establishing the first fully “agent-less” anti-malware
- **2011** - Trend Micro announced Deep Security 8.0, supporting the latest vShield security ecosystem, and offered the only fully agentless security platform to include anti-malware, intrusion prevention, and integrity monitoring
- **2012** - Trend Micro announced 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 demonstrated prototype of Deep Security with NSX integration at VMworld. Trend Micro supports the VMware Hybrid Cloud Service

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

#### Simplifying deployment and provisioning

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

#### Automating 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, enable direct coordination between Trend Micro and VMware security layers.

#### Providing elastic protection and scalability

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

## SECURITY OPTIMIZED FOR VIRTUAL AND CLOUD ENVIRONMENTS

With thousands of successful agentless customer deployments worldwide, Trend Micro Deep Security has proven it improves security, manageability, and VM density. Trend Micro has received numerous accolades and recognition for virtualization security, including IDC's #1 ranking<sup>1</sup> in market share for server security (which includes virtualization and cloud security) for the past three years. Trend Micro was also awarded Best Secure Virtualization Solution in 2013 by SC Magazine.

Trend Micro has led the market with several significant "firsts":

- *First and only* agentless security suite for the VMware hypervisor
- *First and only* security solution to integrate with cloud platforms including Amazon EC2, VMware vCloud, and Microsoft Azure
- *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, demonstrating VMware and Trend Micro's commitment to design the ideal next-gen security framework for today's virtualized and cloud environments.



#### Joint Trend Micro and VMware Technology Benefits with NSX:

- **Simplifies** security deployment and provisioning with new integration capabilities within NSX Composer
- **Automates** workflow across protection layers using new NSX tagging capabilities
- **Provides elastic protection and scalability** with new NSX abilities that define protection at the container level



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<sup>1</sup> IDC Worldwide Endpoint Security 2014-2018 Forecast and 2013 Vendor Shares, Figure 2, doc #250210, August 2014