

Complete Compliance for PCI: Trend Micro and HyTrust

A Solution for VMware Virtual and Cloud Environments




BETTER TOGETHER

- Security protections and compliance controls for the platform and the hosted workloads
- Pre-integrated and tested
- Built-in reporting against the latest PCI DSS 2.0 standard
- Incorporates thought leadership from the experts involved in development of virtualization supplement
- Build for virtualization from the ground up, incorporates virtualization specific controls and maintains current view of virtualized infrastructure


THE RIGHT DATA AT YOUR FINGERTIPS

Clear, Simple, Measurable Compliance

By combining data from two cutting-edge products for VMware environments, Trend Micro’s Deep Security and HyTrust’s Security Virtual Appliance, we give the end user a tool that provides clear, simple and measurable compliance for PCI. In addition to providing detailed reports on critical compliance data, we score each area of compliance, then tally these scores to provide a high-level view on overall PCI compliance. This provides both the granular visibility into areas of compliance that need addressing, as well as a view of ongoing compliance status that makes reporting to execs a snap.



PCI DSS Version 2 Summary Report

Inputs		Report Generated: August 18, 2011 11:18:42 AM	
Date Range:	From: August 18, 2011	To: August 18, 2011	
Scope:	Infrastructure Label: All	VM Label: All	
Templates:	ESX: PCI	ESXi: PCI-ESXi	
Overview			
vSphere and HyTrust Operations	Authorized: 2; Denied: 0	Number of Authorized and Denied vSphere and HyTrust Appliances	
Number of Virtual Machines with Label	308	Number of VMs with the selected label	
 Trend Micro Status (Overall)	Configured: true	Trend Micro Deep Security Settings	
Number of Resources with Label	811	Number of vSphere resources	
Number of Hosts that Failed Configuration Checks	0	Number of hosts with configuration errors	
Summary			
	Violations (V)	Potential Violations (P)	Satisfied Controls (S)
	141	127	4
			Monitored Controls (M)

KEY PRINCIPLES OF COMPLIANT VIRTUALIZATION

Trend Micro and HyTrust in Action

The outcome of the VSIG discussion focuses on key principles that must be addressed in order to consider a virtual environment safe and compliant for PCI purposes. The table below illustrates how Trend Micro’s Deep Security and HyTrust’s Virtual Security Appliance address five of these important principles.



TREND MICRO DEEP SECURITY	HYTRUST VIRTUAL SECURITY APPLIANCE
Hypervisor Environment is in Scope	
<ul style="list-style-type: none"> – Hardens VMs to reduce the risk of attacks from VMs to the hypervisor 	<ul style="list-style-type: none"> – Automated hypervisor hardening and monitoring – Physical access restriction with root password vaulting – Two-factor authentication <p>Separation of duties, version monitoring and complete log of activities for all hypervisor management channels</p>
Mixing VM's of Different Trust Levels	
<ul style="list-style-type: none"> – IDS/IPS supports firewall and VLAN controls by providing visibility into inter-VM traffic 	<ul style="list-style-type: none"> – Logical partitioning of shared infrastructure per port- group and per host provides the isolation required to support mixed-mode VM deployments
Defense in Depth	
<ul style="list-style-type: none"> – New VMs automatically protected with a default security profile – Four protection technologies (AV, IDS/IPS, Integrity Monitoring, Log Inspection) integrated into a single comprehensive solution designed specifically for virtualized environments – No 'gap' in the protection of dormant VMs brought back online – Protection for physical, server VMs, VDI, hybrid cloud and public cloud 	<ul style="list-style-type: none"> – Automated discovery of the infrastructure and proactive enforcement of policies – Enforced least privilege access principal for all methods of infrastructure access
VM Hardening	
<ul style="list-style-type: none"> – New VMs automatically protected with a default security profile – No 'gap' in the protection of dormant VMs brought back online – IDS/IPS shields unpatched vulnerabilities from attack – Integrity Monitoring provides visibility into unauthorized changes to guest-VMs in real-time – Log Inspection provides visibility into security events occurring to guest-VMs & forwards in real-time 	
Cloud Computing	
<ul style="list-style-type: none"> – Protects VMs regardless of their state or location – Can protect VMs in enterprise, hybrid cloud and public cloud environments 	<ul style="list-style-type: none"> – Makes per-tenant infrastructure logs available



ABOUT HYTRUST

The HyTrust Appliance, a network-based policy management technology, introduces enterprise-class controls to virtual infrastructure. With HyTrust Appliance as a part of their cloud stack customers take full advantage of virtualization for hosting payment card information, without introducing vulnerabilities or compromising PCI compliance.

For comprehensive accountability and visibility of virtual infrastructure, the HyTrust Appliance capabilities span:

- **Unified access control:** Retailers can define and enforce highly granular access policies for virtual infrastructure. The HyTrust Appliance provides consistent control at the hypervisor layer to securely enable all access methods, including VMware vSphere client, web client, and Secure Shell (SSH) Protocol.
- **Virtual infrastructure policy:** Retailers can dictate strict, enforceable controls over the virtual environment. These controls map precisely to their operational requirements for PCI compliance.
- **Hypervisor hardening:** Access to VMware vSphere hosts allows the identification of configuration errors using prebuilt assessment frameworks such as PCI DSS, CIS Benchmark, VMware Best Practices, or even custom, user-defined templates. Without manual effort or scripts, the HyTrust Appliance proactively monitors hosts and simplifies the remediation of any configuration problems.
- **Audit-quality logging:** Granular, user-specific access logs streamline PCI audits, troubleshooting, and forensic analysis. Unlike other security appliances, the HyTrust Appliance gives IT groups the ability to grant self-service to various internal organizations. With appropriately separated duties, the solution supports the introduction of privileged access policies within virtualized PCI environments.

ABOUT TREND MICRO

Trend Micro is a global leader in content security and threat management, with more than 20 years of expertise in server, endpoint, messaging, and Web security.

Trend Micro provides the most comprehensive suite of next-generation virtualization security solutions available today. These solutions leverage the VMware platform to deliver better-than-physical security, giving VMware customers the confidence to accelerate and complete their virtualization journey, maximize consolidation rates and cost.

MORE INFORMATION

Relevant Products

- HyTrust Appliance EE 2.5
- Trend Micro Deep Security 7.5 SP3

SOLUTION INFORMATION

<http://www.hytrust.com/solutions/compliance>
<http://us.trendmicro.com/us/solutions/enterprise/security-solutions/compliance/>

Trend Micro
10101 N. DeAnza Blvd
Cupertino, CA 95014
www.trendmicro.com

Phone: 408-257-1500

HyTrust, Inc.
1975 W. El Camino Real, Suite 203
Mountain View, CA 94040
sales@hytrust.com | www.hytrust.com

Phone: 650-681-8100