

Symantec Endpoint Protection and Virtual Environments

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SEP and Virtual Environments

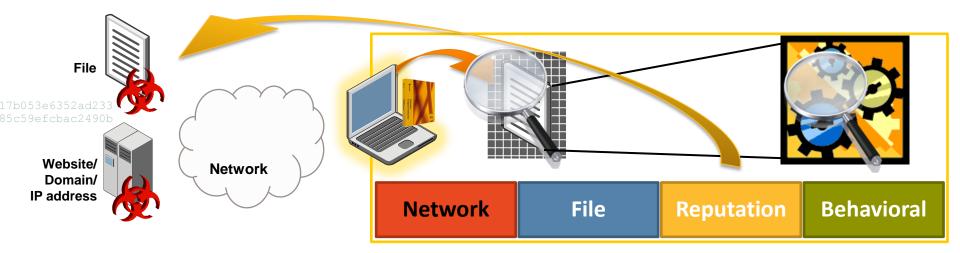
Agenda

- 1 Virtualization Features in Symantec 12.1
- vShield Integration in SEP 12.1.2 (RU2)

Virtualization Features in Symantec 12.1

Symantec Protection Model

Defense in Depth



Network-based Protection

Stops malware as it travels over the network and tries to take up residence on a system

- Protocol aware IPS
- Browser Protection
- IPv6 Support

Protection

Looks for and eradicates malware that has already taken up residence on a system

- Antivirus Engine
- Auto Protect
- Malheur Heuristics

3 Reputation-based Protection

Establishes information about entities e.g. websites, files, IP addresses to be used in effective security

- Insight
- Domain Reputation
- File Reputation
- Prevalence
- Age

4 Behavioral-based Protection

Looks at processes as they execute and uses malicious behaviors to indicate the presence of malware

- SONAR
- Behavioral Signatures



Optimised Performance in Virtual Environments Without sacrificing protection...

- Eliminate scan activity with Virtual Image Exception
- De-duplicate remaining scan activity with Shared Insight Cache
- Smooth out remaining scan and update activity with Resource
 Leveling

Virtual Image Exception

Shared Insight Cache

Resource Leveling

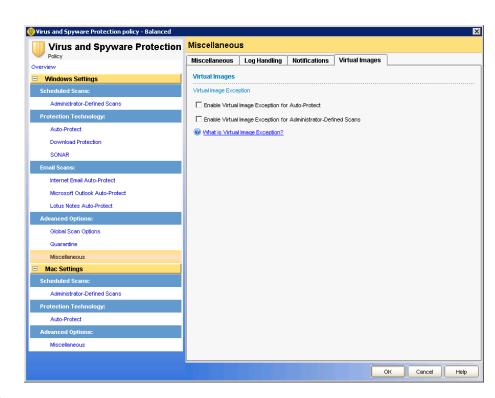
Key benefit: reduction in disk I/O



Virtualization Features: Virtual Image Exception

Virtual Image Exception (VIE): gives administrators the ability to exclude files in a base VM.

- Runs as a stand alone application in a guest VM (VMware, Citrix, of Hyper-V)
- Configurable in SEPM for Admins to enable/disable VIE exceptions for auto-protect and administrator defined scans.
- Ideal for excluding a Gold Image in linked clone and nonpersistent VDI environments



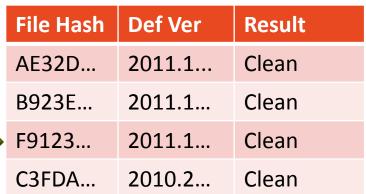
Shared Insight Cache (nSIC)

- Shared Insight Cache (nSIC) is a server application which caches hashes of known clean files to optimize scheduled scan performance.
- nSIC server keeps a record in memory of files determined to be clean by guests performing scans
- Communication between clients and nSIC uses http (or https)

Miscellaneous	Log Handling	Notifications	Virtual Images	Shared Insight Cache		
Shared Insight Cache						
Configure Shared Insight Cache settings to improve scan performance on virtual machines.						
☑ Enable Shared Insight Cache ○ Shared Insight Cache using VMware vShield						
Shared In:	sight Cache using N	letwork	Require SSL			
Hostname Username		Port	9005			



Shared Insight Cache Server (nSIC)



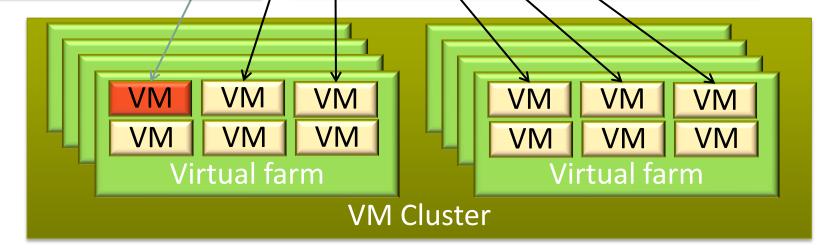
First SEP client needs to scan a file.

Queries SIC and finds no record.

SEP scans the file and sends the results to the SIC.

Subsequent SEP clients need to scan the same file. They query the cache server and find the file has already been scanned with the same version of defs and the file is clean.

SEP client skips scanning the file.



nSIC Vs VIE: Reducing I/O

nSIC	VIE			
Caches clean file hashes not yet trusted or white listed by another technology	Whitelist ALL files on a VM template			
Applies to scheduled scans only	Applies to scheduled scan and real-time scans			
Requires a SIC server on Windows with .Net 4.0	N/A			
Platform agnostic (VMware, Citrix, Microsoft)				

New Virtualization Features in SEP 12.1.2 RU2 – vShield integration

vShield Endpoint components

vShield Endpoint plugs directly into vCenter and consists of three components:

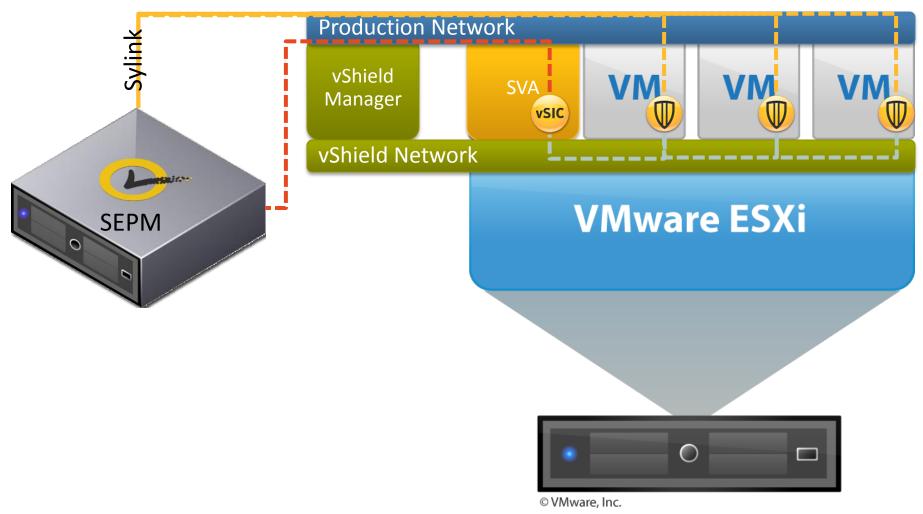
- Hardened security virtual appliances, delivered by VMware partners
- Thin agent for virtual machines to offload security events (included in VMware Tools)
- VMware Endpoint ESX®
 hypervisor module to enable
 communication between the
 thin agent and the security
 virtual appliance at the hyper visor layer





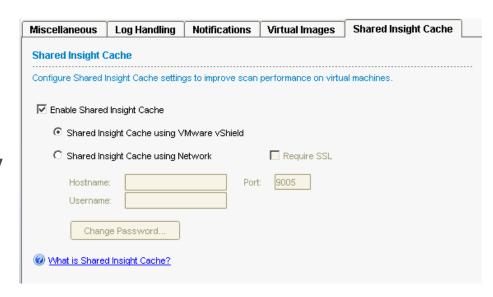


vSIC components overview



vShield enabled Shared Insight Cache (vSIC)

- vShield Endpoint enabled scan cache to optimize performance for scanning
- Moves the SEP 12.1 Shared
 Insight Cache into a Security
 Virtual Appliance
- Uses vShield as the communication channel between SEP and the cache
- Same performance benefit as SEP 12.1 nSIC





If vSIC doesn't provide better performance than nSIC then what is the point?

- Auto-discovery
- No network traffic (physical)
- vMotion support for GVM's
- Monitoring SVA via SEPM
- Monitor vSIC protected Clients via SEPM



Q&A



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