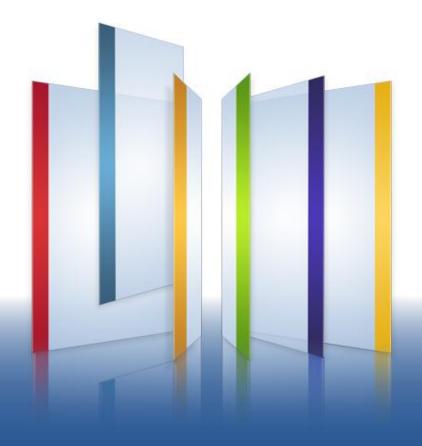


Check Point R76 Update



Rami Rauanmaa Sr. Security Engineer Check Point Software Technologies

Agenda



- 1 R76 Software version
- 2 Threat Emulation Blade
- 3 Document Security
- 4 Compliance Blade



Support for IPv6 - Features description



- Access Policy
 - Complete Firewall support, including dynamic objects and time objects.
 - Full stateful inspection for IPv6 connections.
 - NAT66 and NAT64
- **URL** filtering and Application control
- Identity awareness and Authentication
- **User Check**
- Anti Bot and Anti Malware
- Advanced Networking and OS
- Dynamic Routing: OSPF and BGP
- HA: Clustering and VRRP
- **IPS**
- VPN Site-to-Site



Features description (cont.)

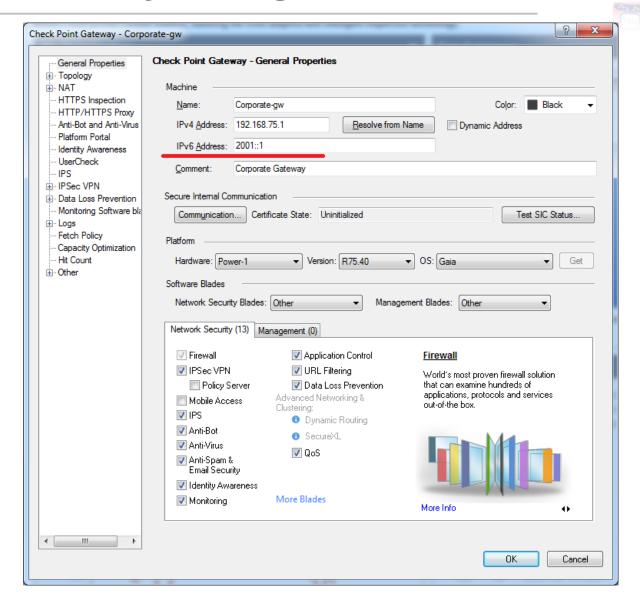


- Central Management
 - Support IPv6 for all communications between gateway and management
 - SmartDashboard
 - Ability to connect to Management with IPv6 address
 - Support dual-stack definition for all network objects
 - Support IPv6 addresses in all IP containers
 - Support for multiple IPv6 ranges on the same object
 - Get topology covers IPv4 and IPv6
- SmartLog and SmartEvent
- SmartView Monitor (except traffic counters)
- Support IPv6-only Security Gateway and IPv6-only Security Management server



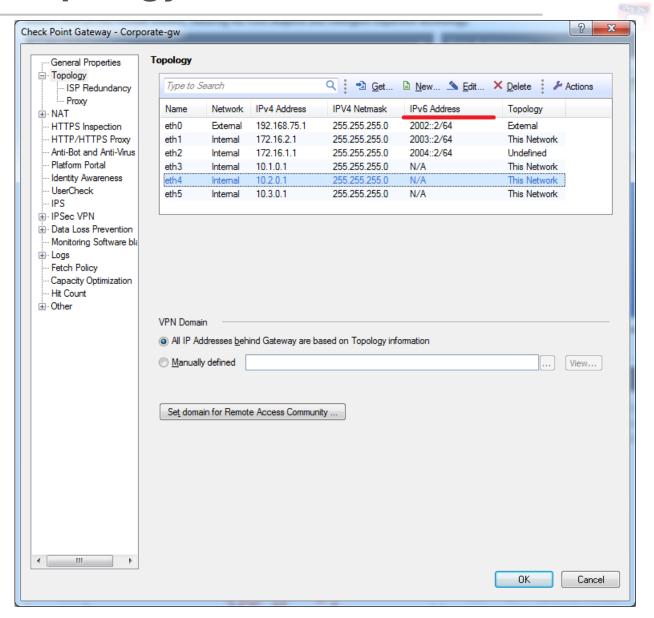
IPv6 - Gateway Configuration





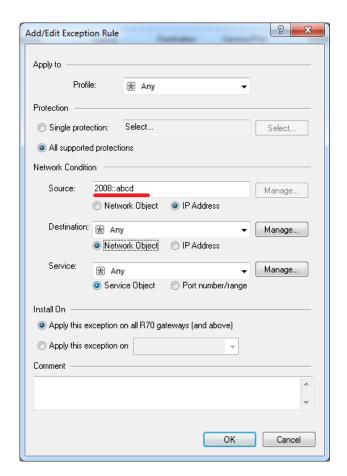
IPv6 - Topology





IPv6 - Additional Screenshots





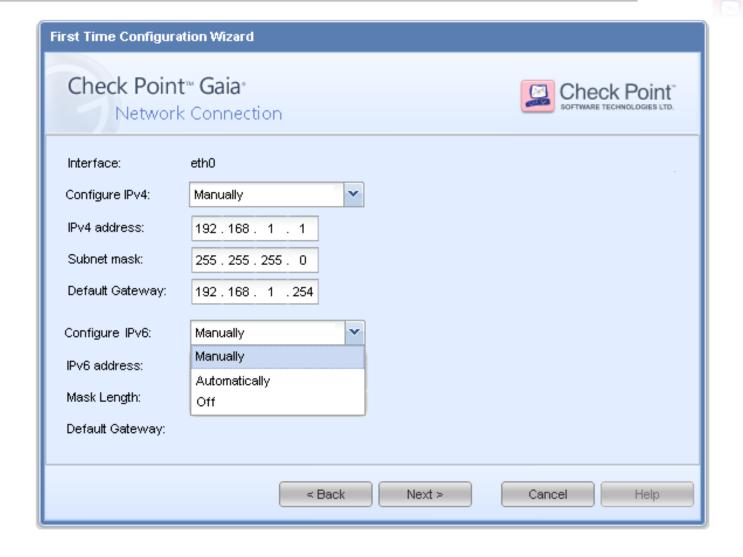
Time		В	I	A	Source	Destination	Service	Rule	Polic
Today	16:14:12		⊟	(1)	3018::10	2620:0:2a03:72:	TCP/80		Stan
Today	16:14:12	1	←	(4)	3018::10	2620:0:2a03:72::	TCP/80	1	Stan

SmartLog

IPS exceptions

Full IPv6 Support in Gaia WebUI – including FTW







DLP enhancements

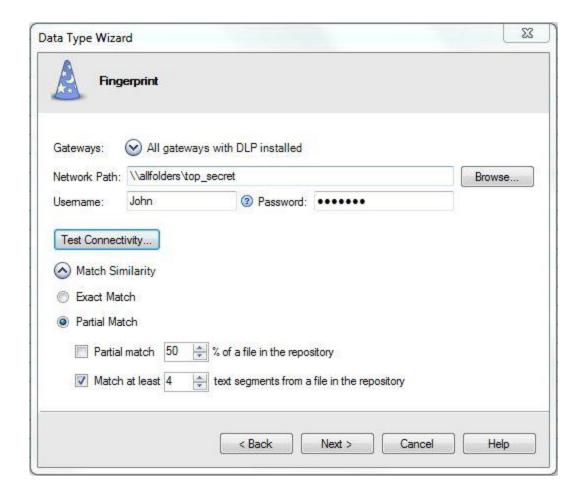


- Define DLP policies in user and user-group granularity
 - Integration with Identity Awareness
- Fingerprinting DLP scans file repositories of sensitive files and match when a file from this repository (or part of it) leaves the organization.
- Whitelist define a repository of white listed files for DLP engine to exempt.
- Enhancements to User Engagement
 - DLP email notifications to end-user for all protocols
 - UserCheck notifications configuration and multi-language support

DLP Enhancements - Fingerprint



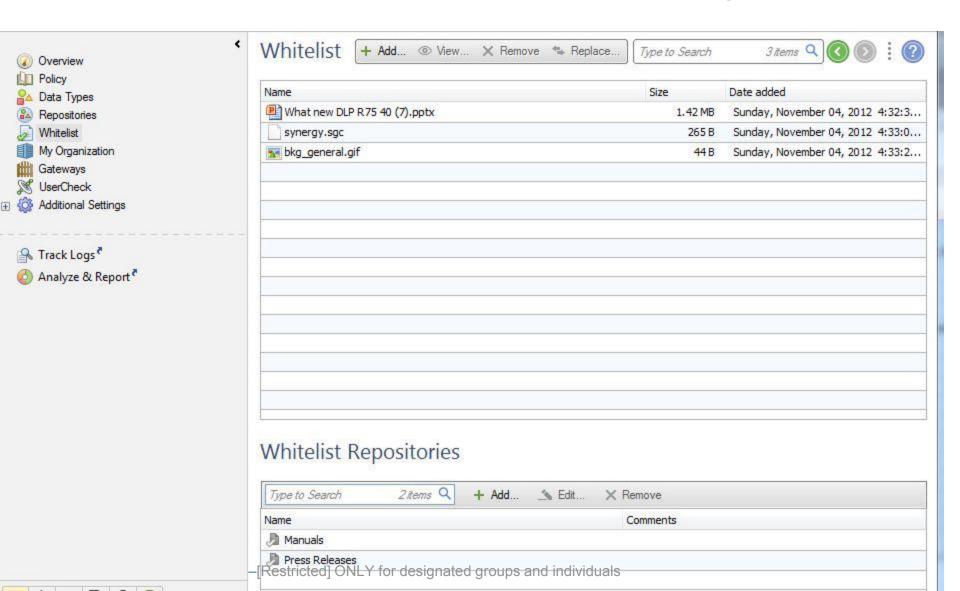
DLP scans file repositories of sensitive files and match when a file from this repository (or part of it) leaves the organization.



DLP enhancements – White List



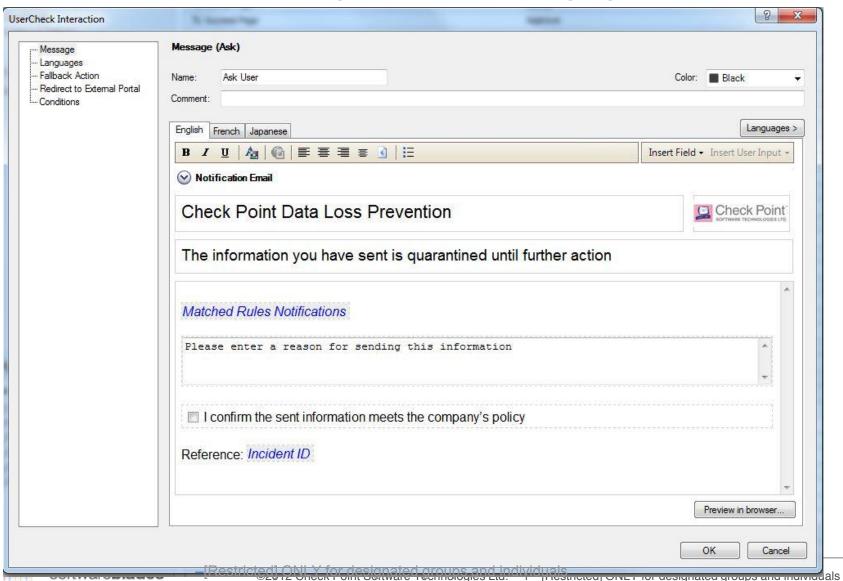
Whitelist – define a repository of white listed files for DLP engine to exempt.



DLP enhancements - UserCheck



UserCheck notifications configuration and multi-language support



New Hardware support



New 21600 appliance



Support for DDoS Protector appliance





DDoS and Gateway durability



- A new set of features is being introduced to the Check Gateways to improve its durability under DoS and DDoS conditions
- These include:
 - A Penalty Box mechanism
 - Improved SYN Attack mitigation
 - Drop templates
 - DDoS enforcement



URLF and Application control enhancements



- **Enhanced Filtering Options**
 - "Lite" HTTPS filtering filter HTTPS traffic without SSL inspection
 - Enforce Safe Search in Search Engines filter explicit content in search engines results
 - Filter cached and translated pages in search engines
- **Enhanced Reporting**
 - User detailed activity report
 - Browse Time show time spent in web browsing in logs, events and reports
 - Allow non-admin access to reports with dedicated permission
- Support for more protocols



URLF/APCL – User Detailed Activity



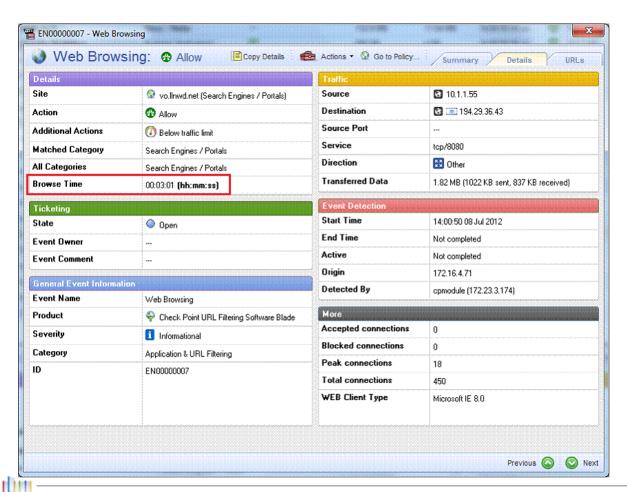
SOFTWARE TECHNOLOGIES LTD.



URLF – Browse Time



Browse Time – show time spent in web browsing in logs, events and reports



Various Software Blades enhancements





UserCheck

- UserCheck client single sign on.
- Improved performance and usability.

Identity Awareness

New, rich login logs (similar to Remote Access login logs)

Anti-Bot and Anti-Virus

- Improved scanning and recognition of bots and viruses.
- User Check support
- Support for URLs in rulebase exceptions

VPN

- AES performance enhancements for high end appliances 12400, 12600 & 21000 series: Increased Site to Site VPN, Remote Access and HTTPS Inspection throughput.
- HTTPS Inspection blacklist automatic updates
- Increased session rate for Identity Awareness Captive Portal.

IPS

Aggregation of logs of the IPS Non Compliant HTTP and Non Compliant DNS protections.

General (Monitoring)

Netflow services can be used to collect information about network traffic patterns and volume.



Control Business Data





Isolate and Encrypt Business Data



Authentication Required to Access Data



Prevent Usage on Modified Devices



Data Expiration and Remote Wipe



Mobile Enterprise for iOS



Passcode

Secure Access

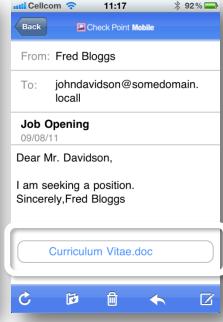


Sandbox









Protect access to the application by a passcode

Secure access to Web portal, Email and Calendar items

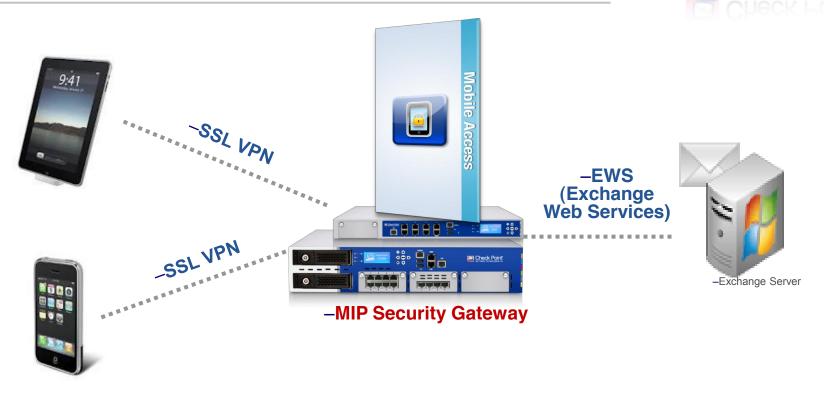
Native and easy to use mail client

All attached documents are opened in the secure sandbox



Secure Mail Architecture





- Two-factor authentication (usr/pass and certificates)
- Robust performance
- Online and Offline modes
- iOS support Jan/13, Android Q2/13

softwareblades*

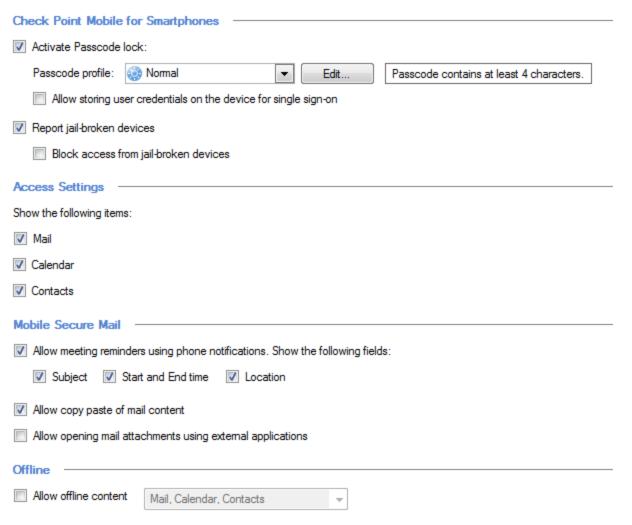
Mobile Profiles



Mobile Profile Policy



Default Profile





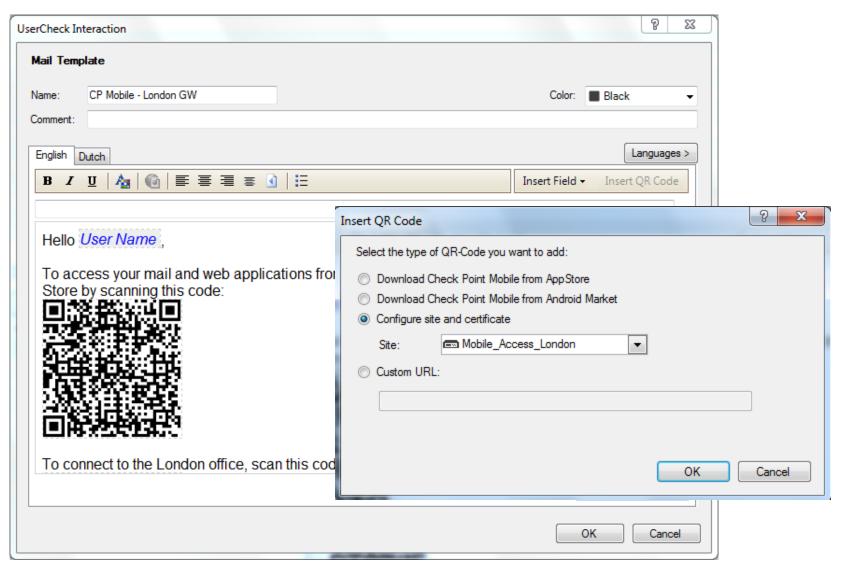
Mobile Access Enhancements



- New SmartDashboard GUI for internal certificate management
 - Easier searching
 - Batch generation of keys for groups, OUs
- Mass distribution of clients to users with UserCheck Email templates
- Unified, rich remote access login logs
- Mobile Access Wizard allows easy connection to Exchange server

Email Distribution Templates





Batch deployment



Hello John Smith.

To access your mail and web applications from your iPhone or iPad, install 'Mobile' from the App Store by scanning this code:



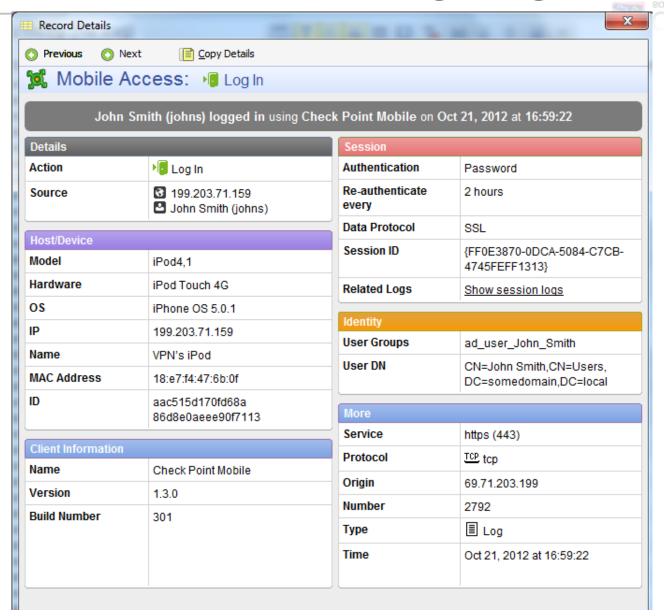
To connect to the London office, scan this code:



For questions or assistance please contact IT helpdesk at +972-3-467890.

Unified, rich remote access login logs



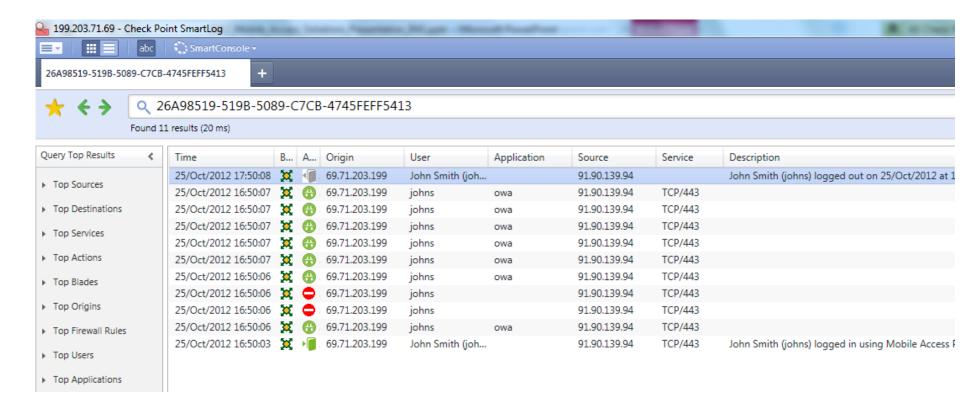




Unified, rich remote access login logs



Follow session trail:



softwareblades*

Zero-day Threat Discovery



Introducing Check Point Threat Emulation Software Blade



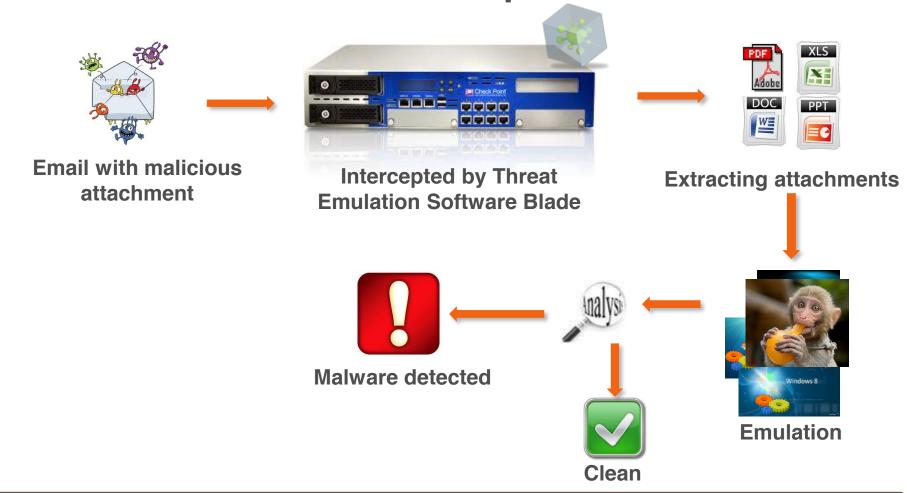
Instant protection against unknown threats



softwareblades"

Threat Emulation – Malicious Attachment Example





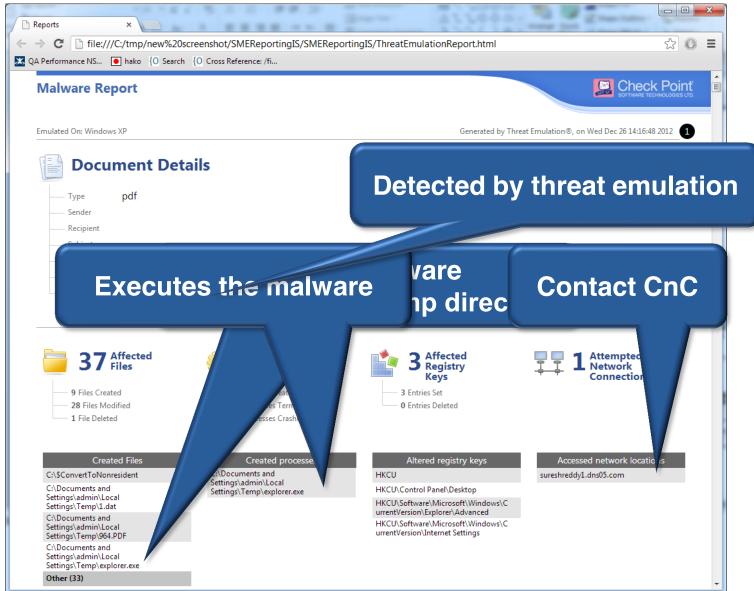
We know what should happen when opening a legitimate document ('White List')

Any document which causes abnormal behavior can be safely consider as malicious



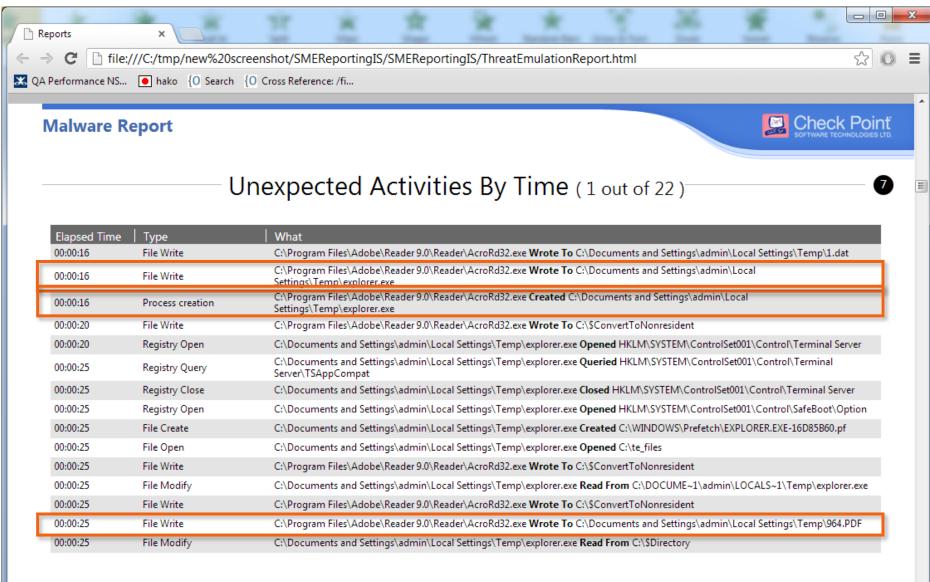
Real Detection of the Syrian Attack, **Fed to the Threat Emulation**







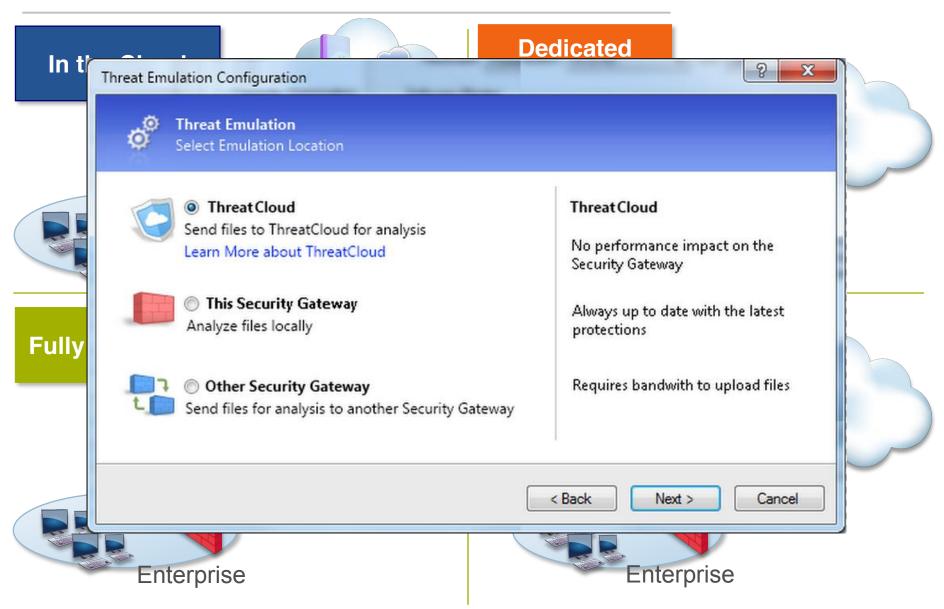






Flexible Deployment Options







Architecture



Open and Execute multiple files in multiple machines

User Space

User Space Emulation Module

Virtual Machines

- Run Emulation and check for bad behavior
- Gathers forensics information (shared to Threat Cloud)

Kernel

Compose and reassembly documents received

Policy / rulebase check

Reassembly Module





Signature Scan by Threat prevention blades

SecureXL (Multi-Core)

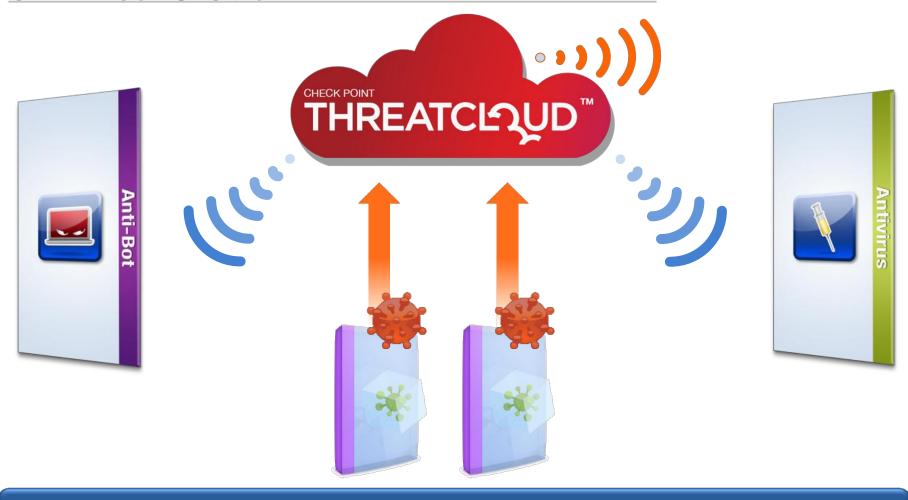


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Boosting Collaboration Power of ThreatCloud





Dynamic Signatures Updated by Network of Threat Emulation Servers in Threat Cloud





Document Security



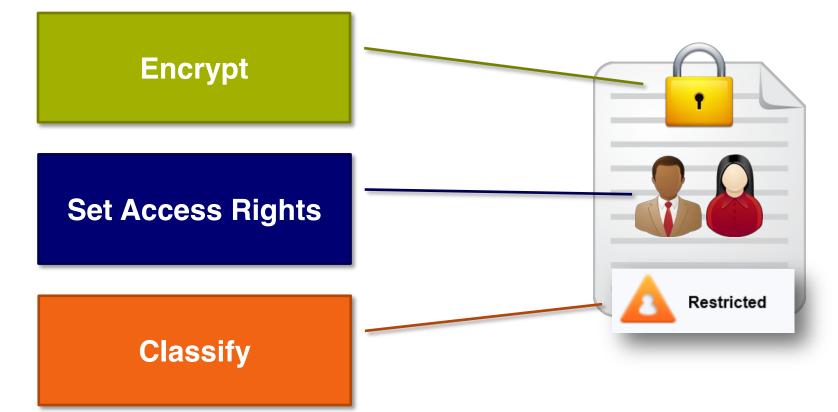
Protect data at rest, in motion, in use and in the cloud by classifying and encrypting documents



What Is Document Security?



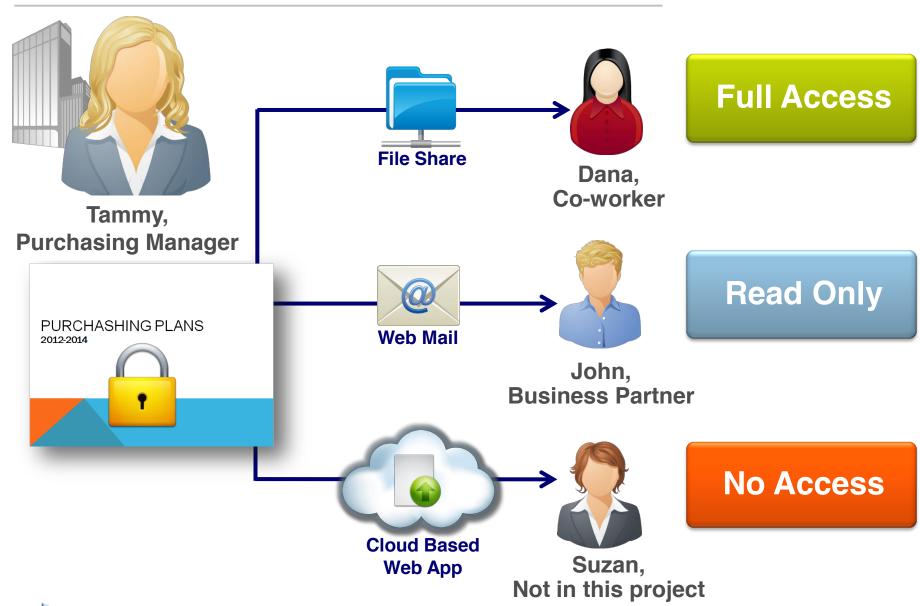
A new, simple way to protect and share business documents





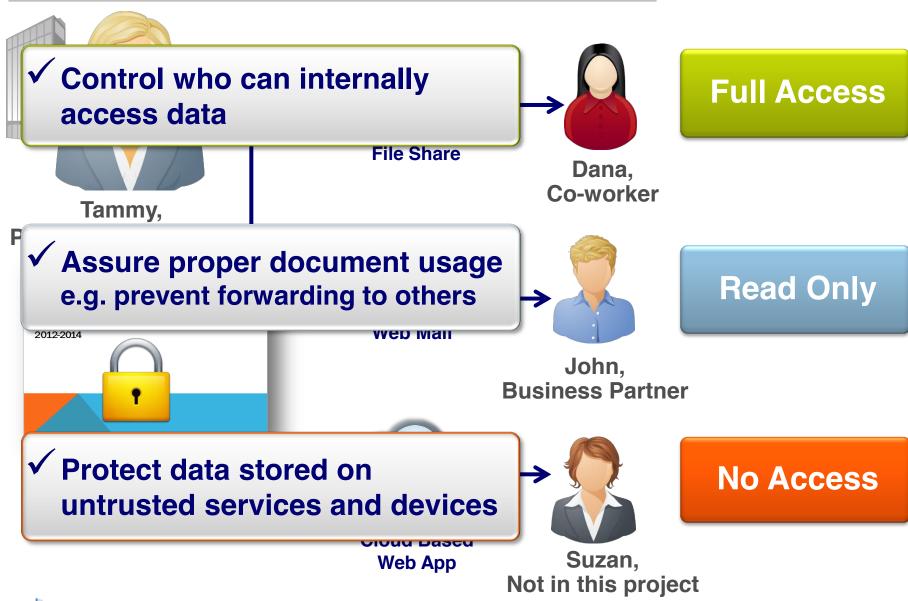
Document Security Example





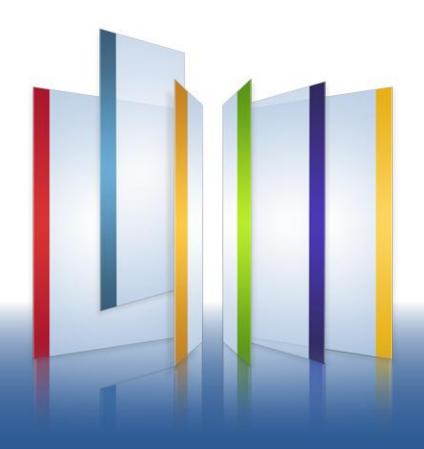
Document Security Example







Check Point's New Compliance Blade



Mati Ram
Head of GRC Business
January 2013

Compliance Blade – Main Features



New Management Blade

Fully integrated into Check Point's architecture

Real Time Compliance Monitoring

More than 250 Security Checks across Check Point's Blades

Continuous Policy Optimization Process

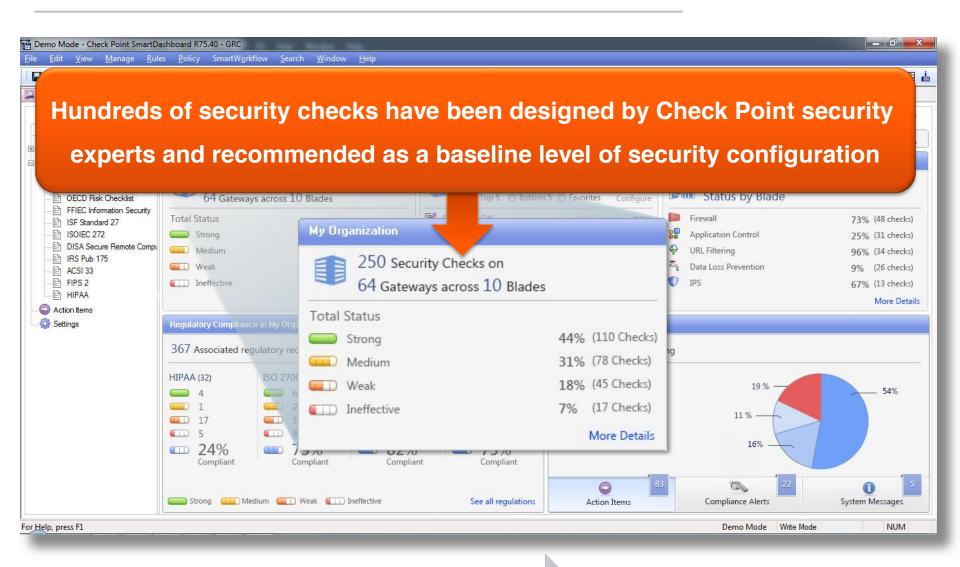
Provides practical guidance on how to improve Security Policy





Overview Screen



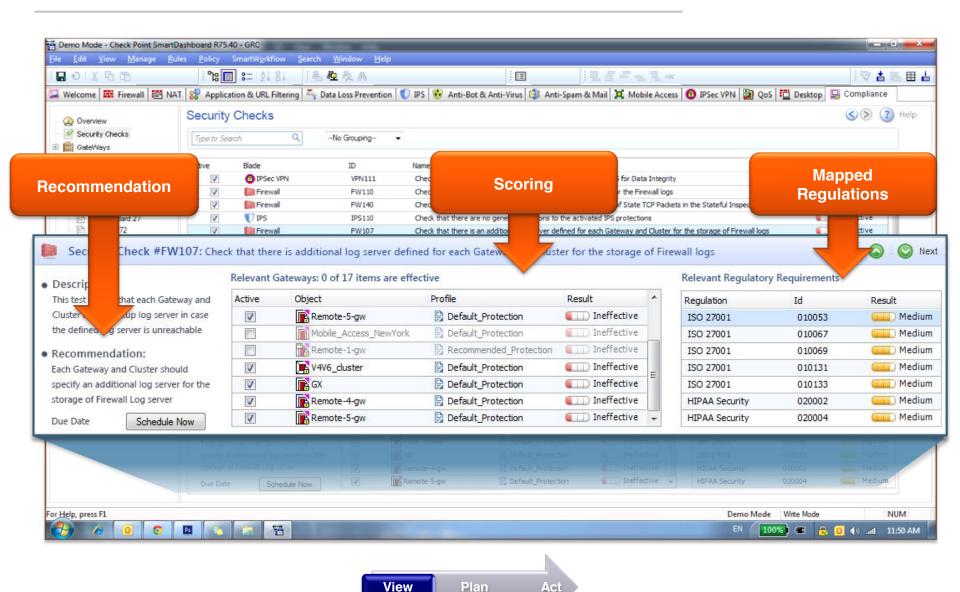






Security Check Detailed Information



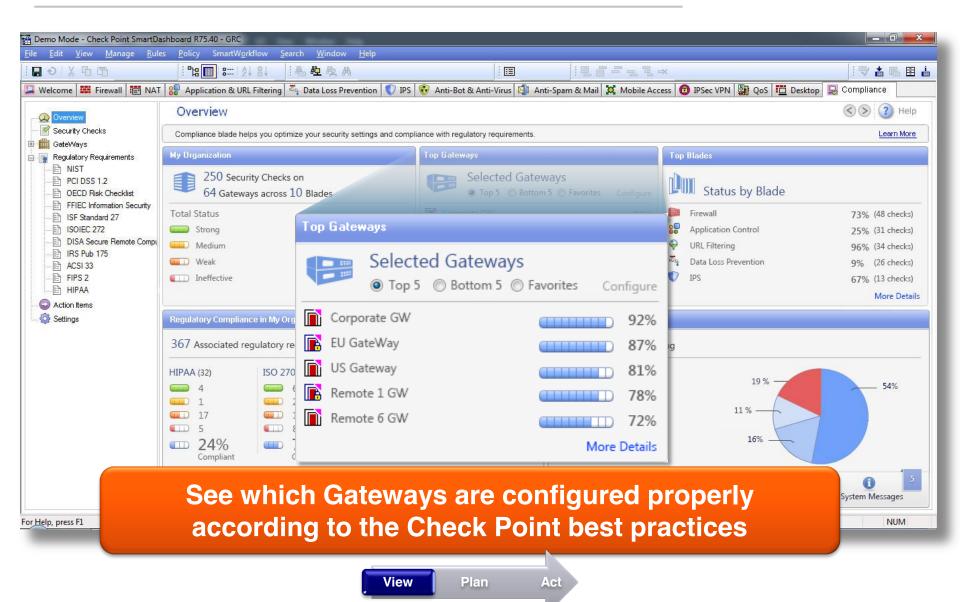




Act

Status By Gateway

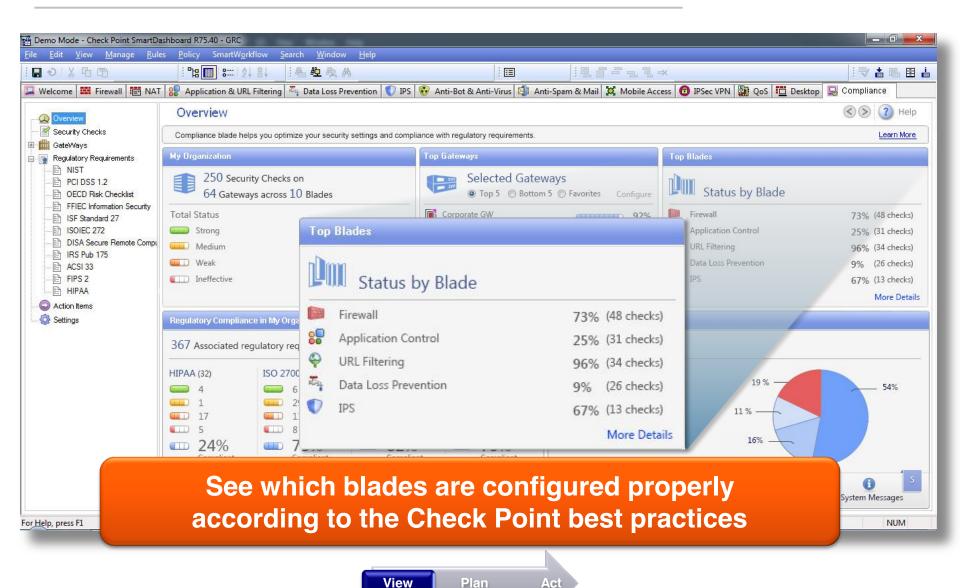






Status By Blade

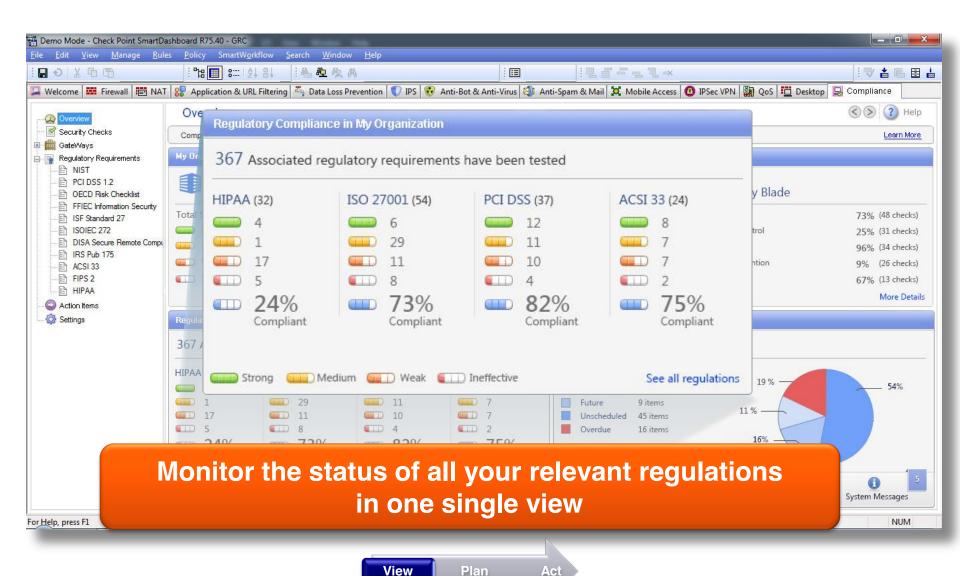






Status By Regulation

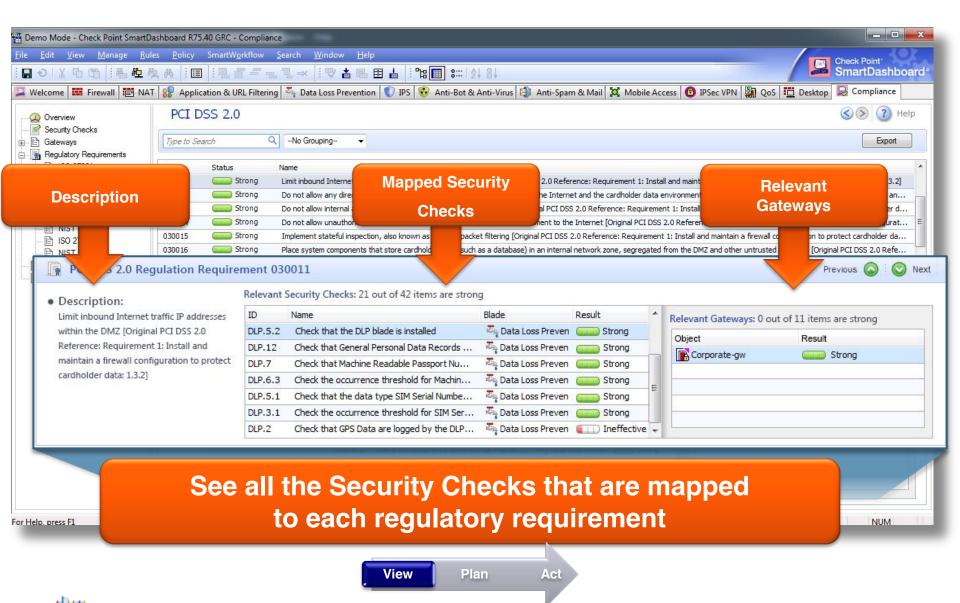






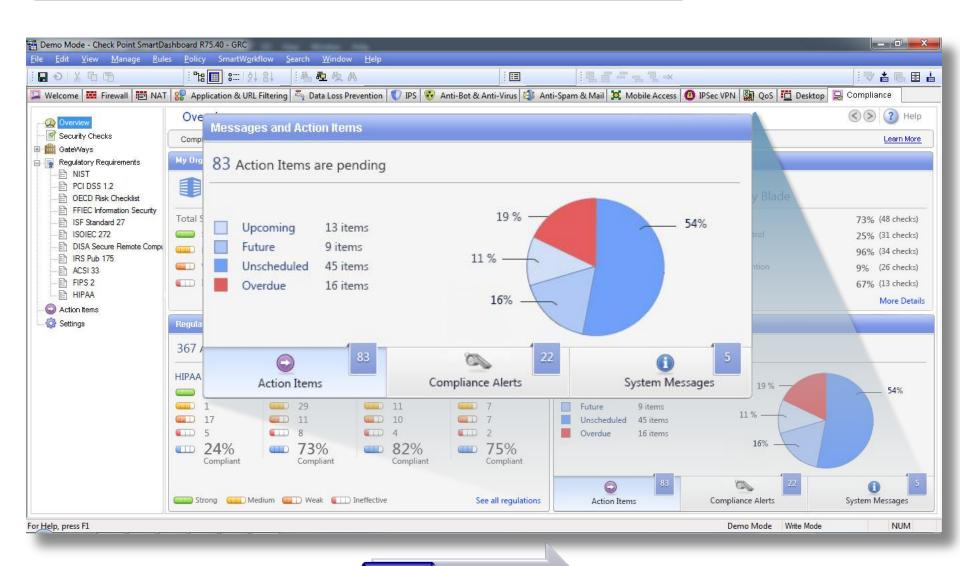
Status By Regulation





Action Items







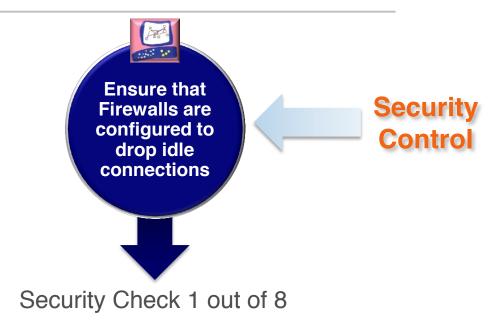
Plan

Act

View

Security Check Sample









Compliance Alerts



Real Time Compliance Monitoring

On-screen alerts when configuration changes impact Compliance







Questions?

