

Tripwire – Foundational Controls



Our Customers Must.... IT Security & Notw **Deliver IT services:** enable the "central nervous system" of the enterprise idCK6m each C Secure data & systems: protect sensitive data & remain compliant - Twe Avoid disruptions: provide security while maintaining availability & uptime twebb@pioneerpress.com Minimize (overall) cost & complexity: drive operational efficiencies & performance posting yesterday. "While much of our couincluding radiographic imm birth, medical proces ang for 2,500 yesterday than services, specialty



The "Fog of More" - Tony Sager, SVP, Center for Internet Security

Seeking clarity in a busy, crowded, noisy security landscape

| Tools | Fram | eworks | St | andards |
|-----------------|------------------|-----------|---------------------|------------------|
| Publi | ic Relations | Analytics | Compliance | |
| Risk Management | Guidelines | Priori | Compliance ties | Standard of Care |
| Products | | | Information | n Sharing |
| | Trade Reg | gulations | Situation Awareness | S Cost Sharing |
| Governance | Notification | Reporting | | Cost Sharing |
| Liability | Big Data | Ven | Best Pra dors | actices |
| | vices Law Ent | forcement | | Policies |
| Oversight | | | Insurance | System Hardening |



Prioritized Cybersecurity

Center for Internet Security's Top 20 Critical Security Controls



| 20 Critic | cal Security Controls | Severity | Tripwire Solutions |
|-----------|---|-------------|-----------------------|
| CSC1 | Inventory H/W Assets, Criticality, and Location | Very High | |
| CSC2 | Inventory S/W Assets, Criticality, and Location | Very High | |
| CSC3 | Secure Configuration Servers | Very High | |
| CSC4 | Vulnerability Assessment and Remediation | Very High | |
| CSC6 | Application Security | High | • |
| CSC7 | Wireless Device Control | High | |
| CSC5 | Malware Protection | High/Medium | |
| CSC10 | Secure Config-Network | High/Medium | |
| CSC11 | Limit and Control Network Ports, Protocols, and Services | High/Medium | |
| CSC12 | Control Admin Privileges | High/Medium | • |

| 20 Critic | al Security Controls | Severity | Tripwire Solutions |
|-----------|---|-------------|-----------------------|
| CSC13 | Boundary Defense | High/Medium | |
| CSC14 | Maintain, Monitor, and Analyze Audit Logs | Medium | |
| CSC15 | "Need-to-Know" Access | Medium | • |
| CSC16 | Account Monitoring and Control | Medium | • |
| CSC18 | Incident Response | Medium | |
| CSC8 | Data Recovery | Medium | |
| CSC9 | Security Skills Assessment | Medium | |
| CSC17 | Data Loss Prevention | Medium/Low | |
| CSC19 | Secure Network Engineering (Secure Coding) | Low | |
| CSC20 | Penetration Testing and Red Team Exercises | Low | |

Mapped to most security and compliance frameworks including NIST, CoBIT, PCI, ISO 27000, FISMA



Tripwire supports the CIS Critical Security Controls

| CRITICAL SECURITY CONTROL | TRIPWIRE SUPPORT |
|---|---------------------|
| CSC1: Inventory of authorized and unauthorized devices | • |
| CSC2: Inventory of authorized and unauthorized software | |
| CSC3: Secure configurations for hardware and software | |
| CSC4: Continuous vulnerability assessments and remediation | |
| CSC5: Controlled use of administrative privileges | |
| CSC6: Maintenance, monitoring, and analysis of audit logs Plus support of Controls | 9, 11, 16 and 18. |

"The first six controls provide the most effective security against threats, and improved integration between security and IT operations."



Tripwire is focused on three aspects of your business

Performing as expected

- » Standard configurations
- » Change audit and validation
- » Improved uptime and MTTR





Protecting your organization

- » Foundational security controls
- » Automated workflows
- » Extensive integrations

Proving compliance

- » Extensive regulatory coverage
- » Continuous monitoring
- » Audit evidence and reports



How we enable security



Detect unauthorized changes

Detection and alerts on all changes to established baseline—
what, who, and business context



Assess configurations against security policies

Extensive library of security configuration best-practices to establish and monitor configurations



Identify risks on assets

Discover assets, vulnerabilities and malicious changes, and help automate the workflow and process of remediation

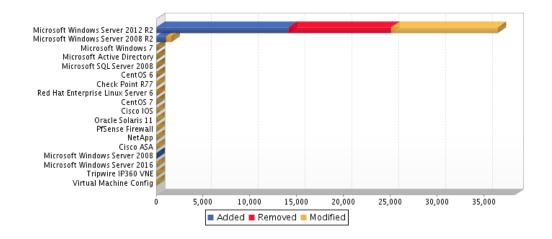


Deal with security data overload

Automate manual processes associated with dealing with change—isolate and escalate changes and events of interest



Thousands of changes

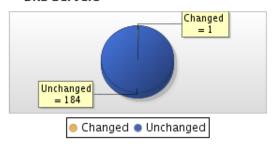


| <u>Type</u> | <u>Added</u> | Removed | <u>Modified</u> | <u>Total</u> |
|------------------|--------------|---------|-----------------|--------------|
| Smart Node Group | 14,153 | 10,937 | 11,355 | 36,445 |
| Smart Node Group | 1,034 | 14 | 571 | 1,619 |
| Smart Node Group | 23 | 0 | 3 | 26 |
| Smart Node Group | 4 | 0 | 11 | 15 |
| Smart Node Group | 4 | 0 | 6 | 10 |
| Smart Node Group | 6 | 0 | 2 | 8 |
| Smart Node Group | 0 | 0 | 8 | 8 |
| Smart Node Group | 0 | 2 | 3 | 5 |
| Smart Node Group | 2 | 0 | 1 | 3 |
| | | | | |

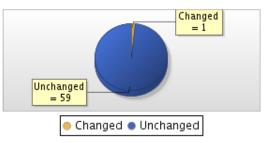


Security Dashboard

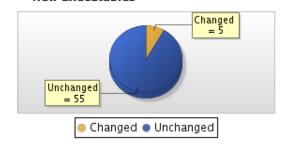
DNS Servers



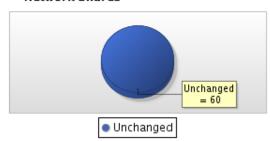
Installed Software



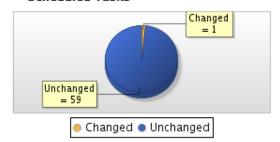
New Executables



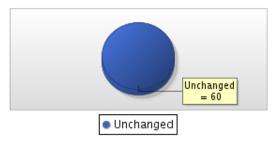
Network Shares



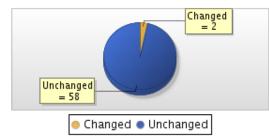
Scheduled Tasks



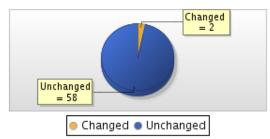
Start Up Tasks



Local Groups



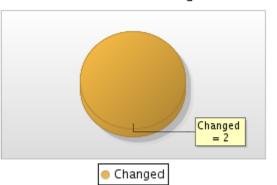
Local Users



Malware Incidence Over Time

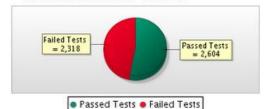


Infected Assets with Changes

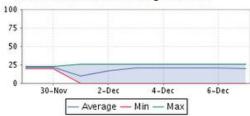


NIST/CIS

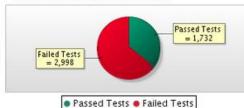
CIS Benchmark Results - Windows



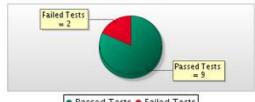
CIS Benchmark Score Trending - Windows



CIS Benchmark Results - Debian

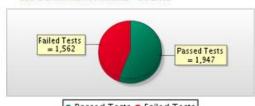


CIS Benchmark Results - Docker



Passed Tests
 Failed Tests

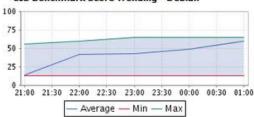
CIS Benchmark Results - Ubuntu



Passed Tests
 Failed Tests



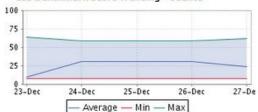
CIS Benchmark Score Trending - Debian



CIS Benchmark Score Trending - Docker

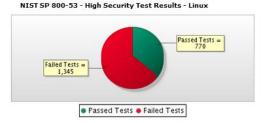


CIS Benchmark Score Trending - Ubuntu

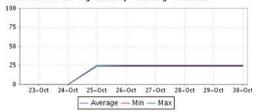


NIST SP 800-53 - High Security - Trending - Linux





NIST SP 800-53 - High Security - Trending - Windows



NIST SP 800-53 - High Security Test Results - Windows





Remediation

AC- 2.1 Built-in Guest Account Renamed

Built-in Guest Account Renamed

This test verifies that the 'Accounts: Rename guest account' feature is defined. This setting promotes confidentiality and system integrity by making it somewhat more difficult for a logon vector attack to succeed (this type of attack is easier

Remediation

To remediate failure of this policy test, configure the security options to ensure that the built in Goest account has been renamed.

Modifying the security options policy:

- 1. Select a group policy object to edit within the Microsoft Management Console.
- 2. Select Computer Configuration > [Policies] > Windows Settings > Security Settings > Local Policies > Security Options.
- 3. Right-click Accounts: Rename guest account and select Properties.
- 4. In the Properties window, select Define this policy setting and in the text box, rename the Guest account then click OK.
- 5. Run the gpupdate command to apply the change.

Note:

- To perform this procedure you must be a domain administrator.
- Tests may continue to fail until the domain refreshes the setting configured above.
- . When you change a security setting and click OK, that setting will take effect in the next refresh of settings, or after reboot.
- The security settings are refreshed every 90 minutes on a workstation or server and every 5 minutes on a domain controller. the settings are also refreshed every 16 hours, whether or not there are any changes.

For turther details, please refer to:

http://technet.microsoft.com/en-us/library/cc264462.aspx

Node: Degobah.galaxy.ffa (Windows Server)

Overall result: Failed @ 11/16/16 9:43 AM

Element: Computer

Result

Failed

Time

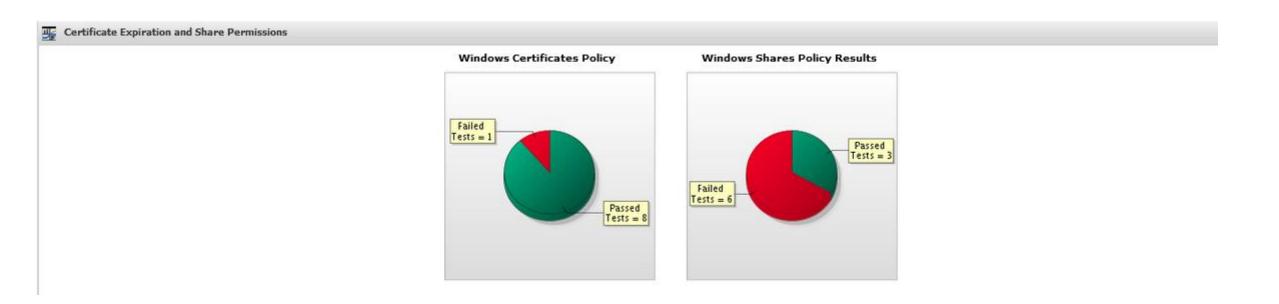
11/16/16 9:43 AM

Actual

NewGuestName="Guest"

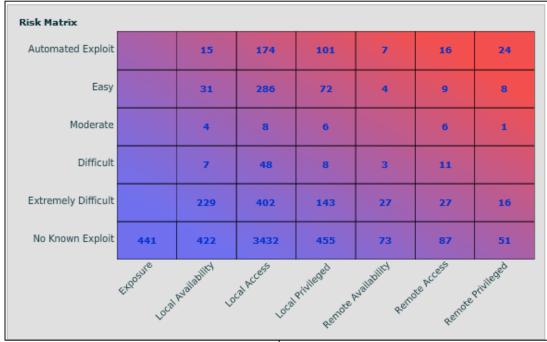


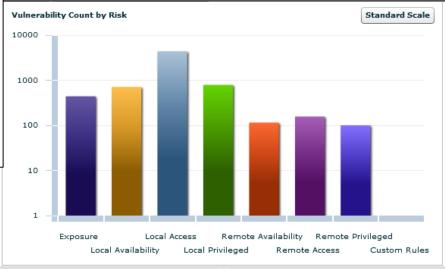
Custom Policies





Vulnerability Heat Map





| IP | DNS Name | NetBIOS Domain | NetBIOS Name | Operating System | Host Score | CVSS Base Score | IP360 Asset Value | Has Exceptions? |
|----------------|------------------------------------|----------------|-----------------|-------------------------|------------|-----------------|-------------------|-----------------|
| 10.64.0.64 | bt2008.scn2.lab.tripwire.com | | | Windows Server 2008 x64 | 936622 | 10.0 | 0 | Yes |
| 192.168.97.136 | DNS Timed out | WORKGROUP | ETL | Windows Server 2008 R2 | 126700 | 10.0 | 0 | Yes |
| 10.64.0.45 | Name not in DNS | WORKGROUP | STNDNSWIN2K8R2B | Windows Server 2008 R2 | 87398 | 10.0 | 0 | |
| 10.64.0.30 | vista.scn2.lab.tripwire.com | WORKGROUP | VISTA | Windows Vista x86 SP2 | 78298 | 10.0 | 0 | |
| 10.64.0.155 | exchangeedge.scn2.lab.tripwire.com | EXCHANGEEDGE1 | EXCHANGEEDGE | Windows 2003 x64 SP2 | 76736 | 10.0 | 0 | |

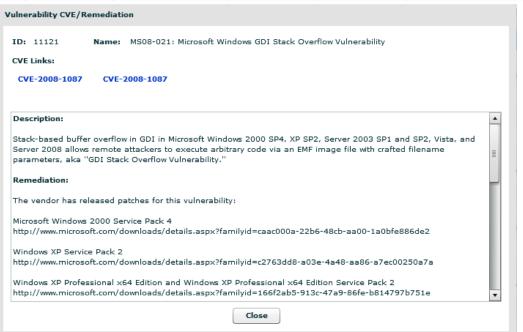


Heat Map Drill Down

Vulnerability Listing For Remote Privileged/Automated Exploit

Display Mode: Show Excepted Findings

| ID | Name | Affected Host | Risk | Score | CVSS Base | CVE | Remediation |
|-------|---|---------------|-------------------|-------|-----------|--|-------------|
| 11121 | MS08-021: Microsoft Windows GDI Stack Overfl | 1 | Remote Privileged | 41033 | 9.3 | CVE-2008-1087, CVE-2008-1087 | Q |
| 11234 | MS08-052: Microsoft GDI+ WMF Image File Buf | 1 | Remote Privileged | 40049 | 9.3 | CVE-2008-3014, CVE-2008-3014 | Q |
| 11889 | MS08-067: Microsoft Windows Server Service RI | 1 | Remote Privileged | 39763 | 10.0 | CVE-2008-4250, CVE-2008-4250, CVE-2008-4250, CVE-2008-4250 | Q |
| 14764 | MS09-006: Microsoft Windows Kernel GDI EMF/\ | 1 | Remote Privileged | 38853 | 9.3 | CVE-2009-0081, CVE-2009-0081 | Q |
| 21372 | MS09-013: Microsoft WinHTTP Integer Underflo | 1 | Remote Privileged | 38619 | 10.0 | CVE-2009-0086, CVE-2009-0086 | Q |
| 21376 | MS09-014: Microsoft Windows NTLM Credential | 1 | Remote Privileged | 38619 | 9.3 | CVE-2009-0550, CVE-2009-0550 | Q |
| 21374 | MS09-013: Microsoft Windows NTLM Credential | 1 | Remote Privileged | 38619 | 9.3 | CVE-2009-0550, CVE-2009-0550 | Q |



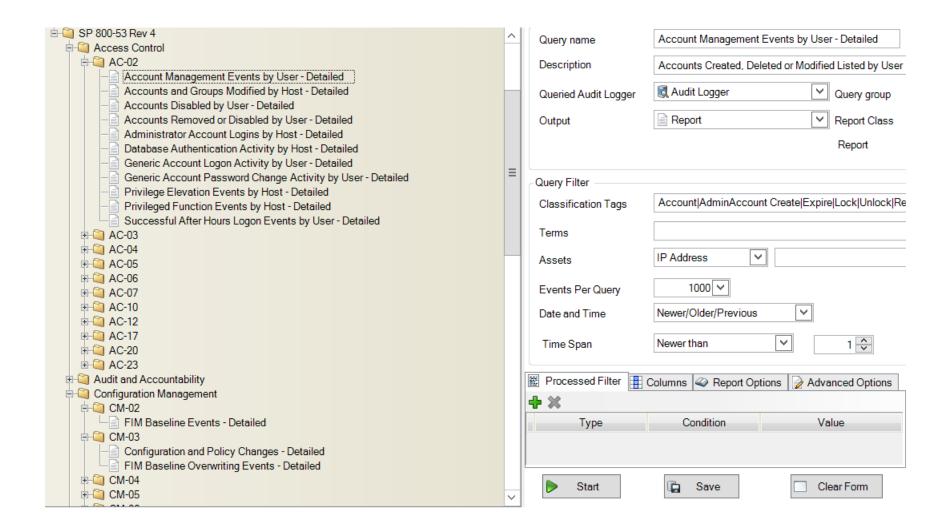


Search for any event of interest

| Event Time | V | Event Name 7 | 7 | ip | V | Process 7 |
|----------------|---|--|------|---------|-----|-----------|
| 10/25 10:38:14 | | Login: pam_unix(login:session): session opened for user okenobi by LOGIN(uid=0) | 192. | 168.97. | 153 | login |
| 10/26 08:07:22 | | Login: pam_unix(login:auth): authentication failure; logname=LOGIN uid=0 euid=0 tty=tty1 ruser= rhost= | 192. | 168.97. | 151 | login |
| 10/26 08:07:35 | | Login: LOGIN ON tty1 BY mwindu | 192. | 168.97. | 151 | login |
| 10/27 16:11:44 | | Login: pam_unix(login:session): session opened for user root by LOGIN(uid=0) | 192. | 168.97. | 151 | login |
| 10/23 12:52:48 | | Login: login on ttyv0 as root | 192. | 168.97. | 1 | login |
| 10/24 10:17:36 | | <32>Oct 24 10:17:36 php: /index.php: Successful login for user 'admin' from: 172.31.34.40 | 192. | 168.97. | 1 | |
| 10/25 10:37:17 | | Login: FAILED LOGIN 1 FROM (null) FOR mwindu, Authentication failure | 192. | 168.97. | 153 | login |
| 10/25 10:38:06 | | Login: pam_unix(login:session): session closed for user root | 192. | 168.97. | 153 | login |
| 10/26 08:07:17 | | Login: pam_unix(login:session): session closed for user root | 192. | 168.97. | 151 | login |
| 10/26 08:07:22 | | Login: pam_unix(login:auth): check pass; user unknown | 192. | 168.97. | 151 | login |
| 10/26 08:07:35 | | Login: pam_unix(login:session): session opened for user mwindu by LOGIN(uid=0) | 192. | 168.97. | 151 | login |
| 10/27 16:11:45 | | Login: ROOT LOGIN ON tty1 | 192. | 168.97. | 151 | login |
| 10/27 22:19:12 | | Login failed for user 'sa' | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:19:12 | | Login failed for user 'ncircle' | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:19:12 | | Login failed for user 'ncircle' | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:19:13 | | The login packet used to open the connection is structurally invalid; the connection has been closed | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:21:51 | | Login failed for user 'sa' | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:21:51 | | Login failed for user 'sa' | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:21:51 | | The login packet used to open the connection is structurally invalid; the connection has been closed | 192. | 168.97. | 101 | MSSQLS |
| 10/27 22:21:52 | | Login failed for user 'sa' | 192. | 168.97. | 101 | MSSQLS |
| 10/28 08:52:46 | | SQL Trace ID 2 was started by login "sa" | 192. | 168.97. | 101 | MSSQLS |
| 10/28 08:52:46 | | SQL Trace ID 1 was started by login "sa" | 192. | 168.97. | 101 | MSSQLS |
| 10/28 15:45:08 | | SQL Trace ID 1 was started by login "sa" | 192. | 168.97. | 101 | MSSQLS |
| 10/28 15:45:08 | | SQL Trace ID 2 was started by login "sa" | 192. | 168.97. | 101 | MSSQLS |
| 10/28 15:51:55 | | Login failed for user 'Administrator' | 192. | 168.97. | 101 | MSSQLS |
| 10/28 15:52:06 | | Login failed for user 'Administrator' | 192. | 168.97. | 101 | MSSQLS |

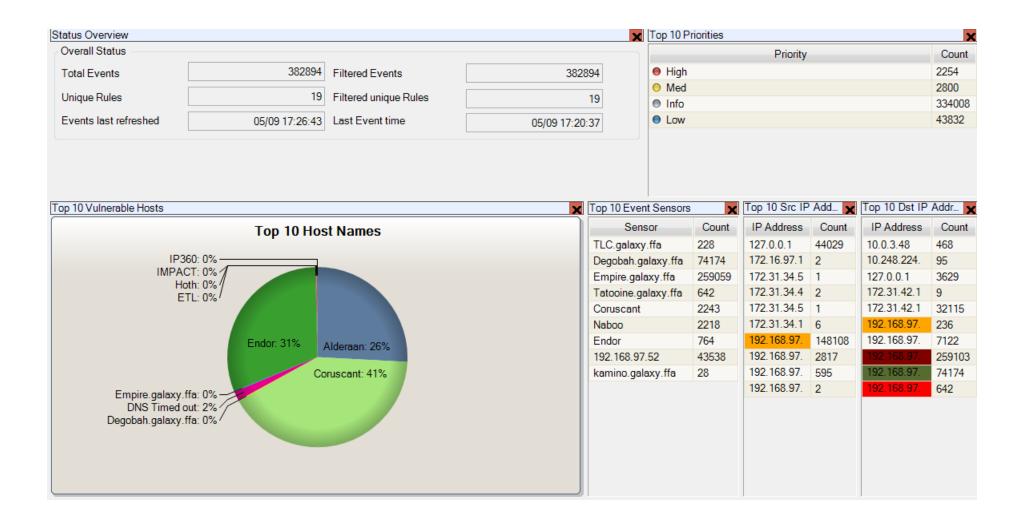


NIST out of the box reports





Vulnerabilities in Logging





How we improve IT operations



Ensure system availability and speed up investigation

Integrity monitoring and change audit to find root cause



Control changes that compromise systems

Real-time change detection—
what, who, when and what it means



Validate changes and reduce unplanned work

Integration with ITSM to tell authorized from unauthorized changes

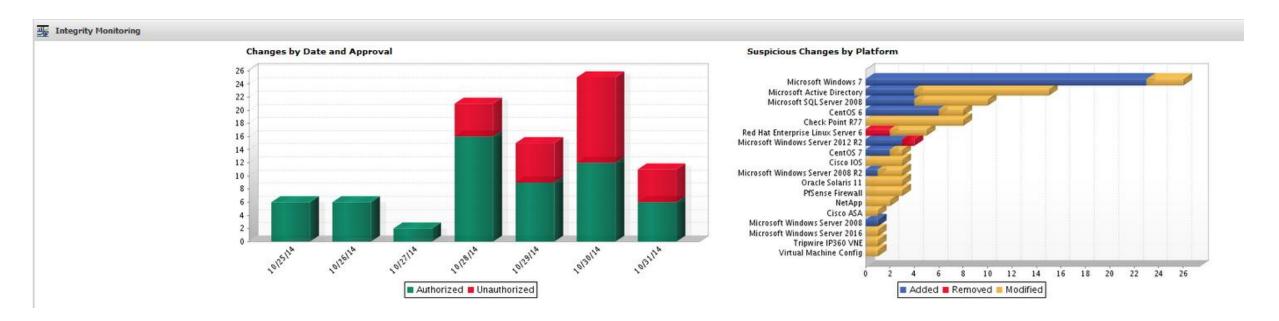


Know what's happening in your environment

Discovery, inventory, change and log data for all your critical assets



Authorized/Unauthorized Changes





Changes to specific applications or environments





Lock down permissions

Windows File Share Analysis

Close Empty File Shares

| <u>Node</u> | Passed Tests | Failed Tests | Percent Compliant |
|---------------------|--------------|--------------|-------------------|
| Degobah.galaxy.ffa | 1 | 0 | 100% |
| ETL.galaxy.ffa | 0 | 0 | 0% |
| Empire.galaxy.ffa | 0 | 1 | 0% |
| Tattoine.galaxy.ffa | 1 | 0 Close Er | npty File Shares |

Close Inactive File Shares (Updates)

| <u>Node</u> | Passed Tests | Failed Tests |
|---------------------|--------------|--------------|
| Degobah.galaxy.ffa | 0 | 1 |
| ETL.galaxy.ffa | 0 | 0 |
| Empire.galaxy.ffa | 0 | 1 |
| Tattoine.galaxy.ffa | 0 | 1 |

Restrict Access to File Shares

| <u>Node</u> | Passed Tests | Failed Tests |
|---------------------|--------------|--------------|
| Degobah.galaxy.ffa | 0 | 1 |
| ETL.galaxy.ffa | 0 | 0 |
| Empire.galaxy.ffa | 0 | 1 |
| Tattoine.galaxy.ffa | 1 | 0 |

Close Empty File Shares

This test will fail if an empty file share is detected.

Remediation

Empty, unused file shares present a needless security risk and should be closed.

Closing a file share

The following command will close a local file share:

net share <sharename> /delete

Reference for "net share": http://technet.microsoft.com/en-us/library/bb490712.aspx

Node: Empire.galaxy.ffa (Windows Server)

Overall result: Failed @ 12/24/14 8:09 AM

Element: Local File Shares

Result

Failed

Time

12/24/14 8:09 AM

Actual

Files Present=N Share=NETLOGON Description=Logon server share Path=C:\Windows\SYSVOL\sysvol\Kessel\SCRIPTS



Hardware/Software discovery

| IP | DNS Name | NetBIOS Domain | NetBIOS Name | Operating System | Host Scor | e CVSS Base | Last Scan | Has Exceptions? |
|---------------------|--|----------------|-----------------|-----------------------------|-----------|-------------|--------------------|-----------------------|
| 10.64.0.64 | bt2008.scn2.lab.tripwire.com | | | Windows Server 2008 x64 SP1 | 93662 | 2 10.0 | 02/27/2017 | Yes |
| 192.168.97.136 | DNS Timed out | WORKGROUP | ETL | Windows Server 2008 R2 SP1 | 12670 | 0 10.0 | 02/21/2017 | Yes |
| 10.64.0.45 | Name not in DNS | WORKGROUP | STNDNSWIN2K8R2 | Windows Server 2008 R2 SP1 | 8739 | 10.0 | 02/27/2017 | |
| 10.64.0.30 | vista.scn2.lab.tripwire.com | WORKGROUP | VISTA | Windows Vista x86 SP2 | 7829 | 8 10.0 | 02/27/2017 | |
| 10.64.0.155 | exchangeedge.scn2.lab.tripwire.com | EXCHANGEEDGE1 | EXCHANGEEDGE | Windows 2003 x64 SP2 | 7673 | 6 10.0 | 02/27/2017 | |
| 10.64.0.105 | ubuntu-server10-4.scn2.lab.tripwir | | | Ubuntu Linux 10.04 | 7655 | 1 10.0 | 02/27/2017 | |
| 10.64.0.156 | ex2k7hubserver.scn2.lab.tripwire.c | CCMAD | EX2K7HUBSERVER | Windows 2003 x64 SP2 | 7457 | 6 10.0 | 02/27/2017 | |
| 10.64.0.59 | win2003mysql5-1.scn2.lab.tripwire | WORKGROUP | WIN2003MYSQL5-1 | Windows 2003 x64 SP2 | 7277 | 6 10.0 | 02/27/2017 | |
| 10.64.0.146 | ole6u5-x64-btrfs.scn2.lab.tripwire | | | Oracle Enterprise Linux 6.4 | 3842 | 5 10.0 | 02/27/2017 | |
| Application Listing | | | | | | | Display Mode: Sh | low Excepted Findings |
| | ID Name | | | | | Hosts Run | ning Protocol/Port | |
| | 8839 Active Directory Application Mode (AD | DAM) | | | | | 1 null/0 | _ |
| 2 | 1118 Adobe AIR 17.0.0.172 | | | | | | 1 null/0 | |
| 1 | 3710 Adobe Flash Player 11.3.300.257 | | | | | | 1 null/0 | |
| 2 | 4605 Adobe Flash Player 18.0.0.343 | | | | | | 1 null/0 | |
| | 9465 Adobe Flash Player for Firefox/Opera | 9 | | | | | 1 null/0 | |
| 1 | 2949 AIX 6.1 TL7 (6100-07) (via SSH) | | | | | | 1 tcp/22 | |
| | 1235 AIX FTP | | | | | | 1 tcp/21 | |
| | 1392 AIX Telnet | | | | | | 1 tcp/23 | |
| | 5925 Apache 2.1.9 - 2.2.0 (via SSH) | | | | | | 1 tcp/22 | |
| 1 | 4967 Apache 2.1.x and 2.2.x HTTP | | | | | | 1 tcp/80 | |
| | 5926 Apache 2.2.0 (via SSH) | | | | | | 3 tcp/22 | |
| | 7749 BIND 8.3.3 (via SSH) | | | | | | 1 tcp/22 | |
| | 1868 Bind 9 tcp DNS | | | | | | 1 tcp/53 | |
| 1 | 0730 BIND 9.7 UDP | | | | | | 1 udp/53 | |
| | 7702 BIND 9.x (via SSH) | | | | | | 1 tcp/22 | |
| 1 | 0489 CACE WinPcap | | | | | | 3 null/0 | |
| 1 | 0518 CACE WinPcap 4.1.2 | | | | | | 1 null/0 | - |

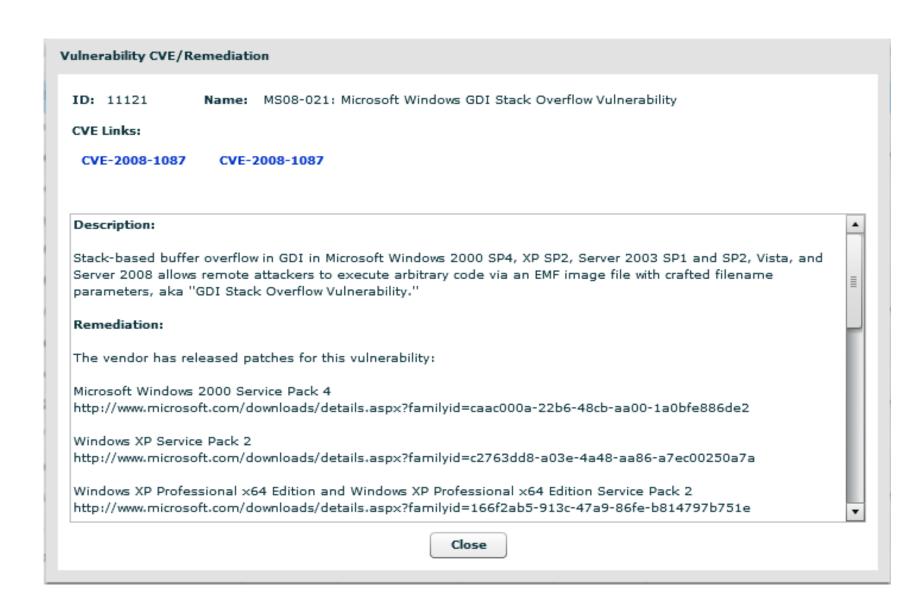


Web Browsers within the environment

| Application Listing | Display Mode: Show Excepted Findings | | |
|---------------------|--|---------------|---------------|
| ID | Name | Hosts Running | Protocol/Port |
| 1809 | Mozilla Application | 6 | null/0 |
| 9339 | Microsoft Internet Explorer 8.0 (8.0.6001.18702) | 3 | null/0 |
| 18103 | Microsoft Internet Explorer 11 | 3 | null/0 |
| 19502 | Mozilla Firefox 31.0 | 2 | null/0 |
| 9338 | Microsoft Internet Explorer 8 | 2 | null/0 |
| 9713 | Microsoft Silverlight 3.0.40818.0 | 2 | null/0 |
| 11150 | Microsoft Internet Explorer 9.0 (9.0.8112.16421) | 1 | null/0 |
| 2962 | Mozilla Firefox | 1 | null/0 |
| 9273 | Microsoft Internet Explorer 7.0 (7.0.6001.18000) | 1 | null/0 |
| 26270 | Microsoft Silverlight 5.1.50901.0 | 1 | null/0 |

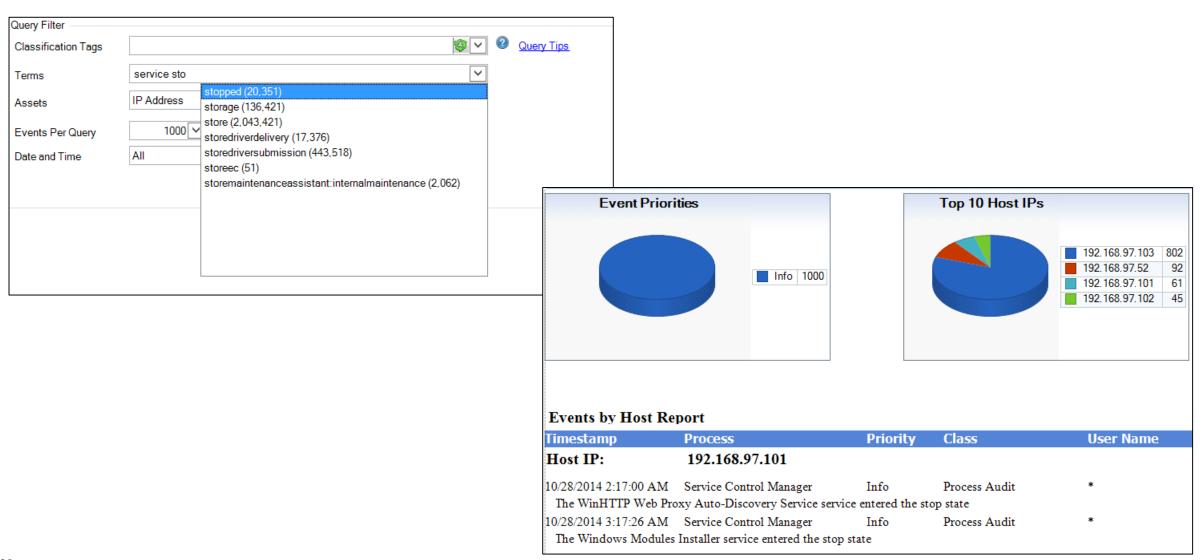


VM Remediation





Searching for stopped services





Root/Admin activity

| Host : | 192.168.97.153 | |
|-----------------------|----------------|---|
| 10/10/2014 6:20:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 6:30:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 6:40:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 6:50:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:00:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:01:01 PM | root | Cron command: (run-parts /etc/cron.hourly) |
| 10/10/2014 7:10:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:20:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:30:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:40:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 7:50:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:00:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:01:01 PM | root | Cron command: (run-parts /etc/cron.hourly) |
| 10/10/2014 8:10:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:20:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:30:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:40:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:50:01 PM | root | Cron command: (/usr/lib64/sa/sa1 -S DISK 1 1) |
| 10/10/2014 8:53:33 PM | root | Successful Logon: root |
| 10/10/2014 8:53:33 PM | root | Successful Logon: root |



How we support compliance



Demonstrate compliance with standards

Industry's most comprehensive library of policy tests for all major standards



Reduce the time spent on compliance

Out-of-the-box audit report templates, and automated compliance reporting



Produce data for audits and for forensics

Logging of changes to in-scope assets with details on *who* and *when*

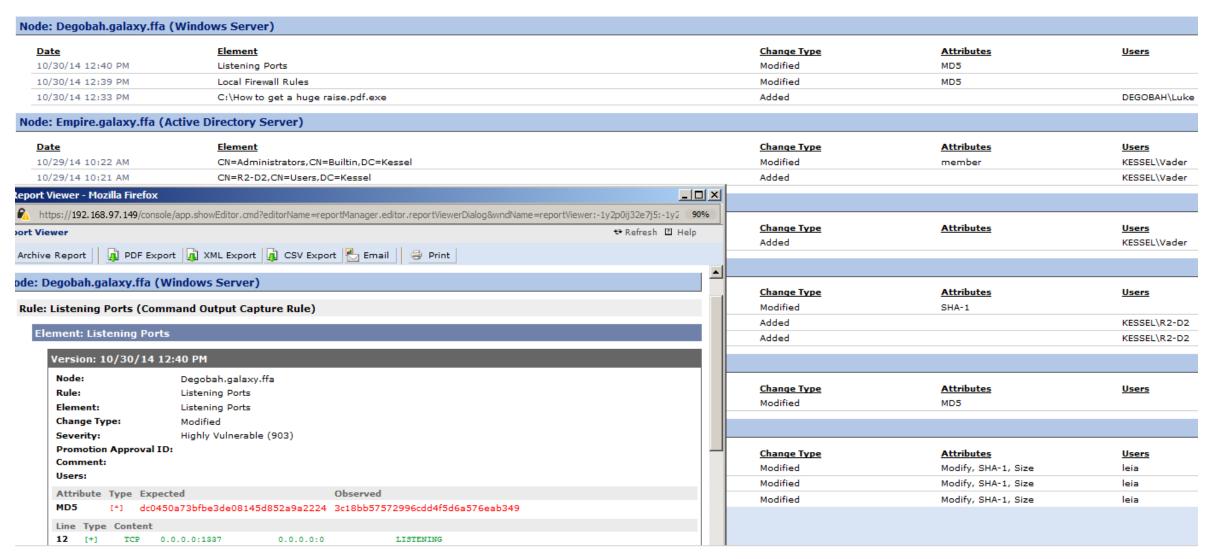


Maintain compliance over time

Continuous monitoring and reporting identifies remediation to stay compliant

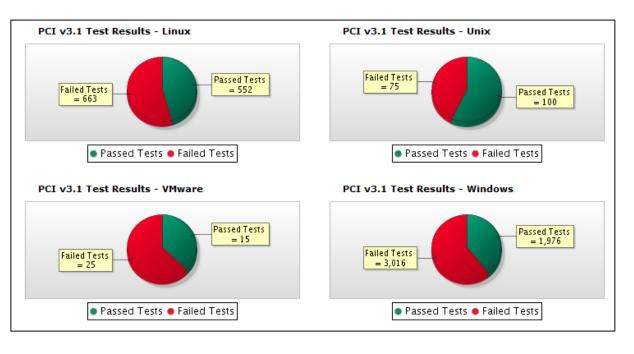


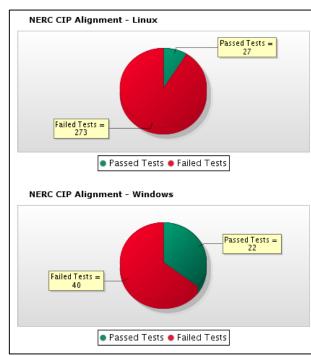
FIM required by compliance

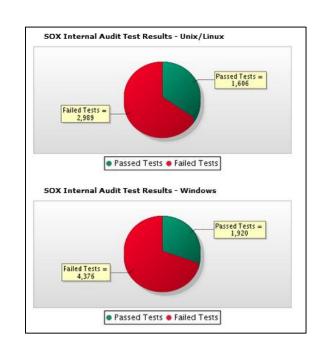




SCM – SOX, PCI, NERC



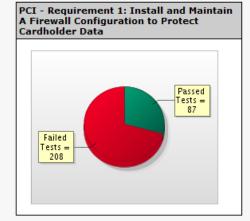


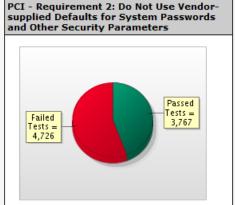


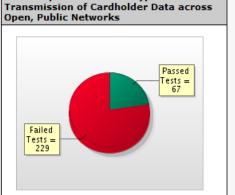


PCI by requirement

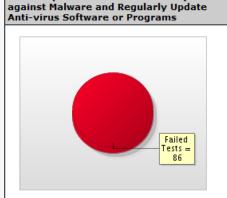
PCI by Requirement



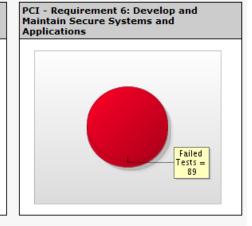


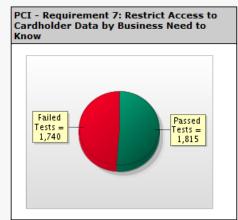


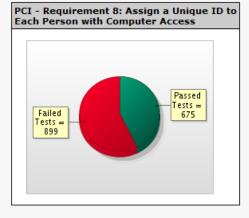
PCI - Requirement 4: Encrypt

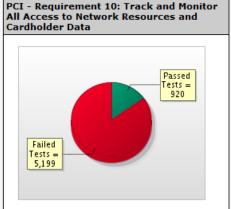


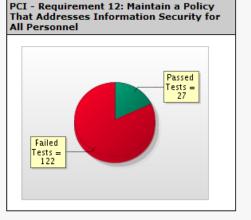
PCI - Requirement 5: Protect All Systems













PCI Remediation

12.3.8.3 Machine Inactivity Limit: 900 or Fewer Seconds

Machine Inactivity Limit: 900 or Fewer Seconds

This test verifies that 'Interactive logon: Machine inactivity limit' is set to '900 or fewer seconds'. Windows notices inactivity of a logon session, and if the amount of inactive time exceeds the inactivity limit, then the screen saver will run, locking the session.

Remediation

To remediate failure for this policy test, configure the security options to set the inactivity time limit to no more than 900 seconds.

Modifying the security options policy :

- 1. Select a group policy object to edit within the Microsoft Management Console.
- 2. Select Computer Configuration > [Policies] > Windows Settings > Security Settings > Local Policies > Security Options.
- 3. Right-click Interactive logon: Machine inactivity limit, select Properties.
- 4. In the Properties window, select Define this policy setting and in the Machine will be locked after: box, enter an integer value that is greater than 0 and less than or equal to 900, and click OK.
- 5. Run the **gpupdate** command on to apply the change.

Note:

- To perform this procedure you must be a domain administrator.
- . Tests may continue to fail until the domain refreshes the setting configured above.
- . When you change a security setting and click OK, that setting will take effect in the next refresh of settings, or after reboot.
- The security settings are refreshed every 90 minutes on a workstation or server and every 5 minutes on a domain controller. The settings are also refreshed every 16 hours, whether or not there are any changes.

For further details, please refer to:

http://technet.microsoft.com/en-us/library/hh831424.aspx

Node: Kamino.galaxy.ffa (Windows Server)

Overall result: Failed @ 11/16/16 9:43 AM

Element: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\policies\system|InactivityTimeoutSecs

Result

Failed

Time

11/16/16 9:43 AM

Node: StarDestroyer-13411.galaxy.ffa (Windows Server)

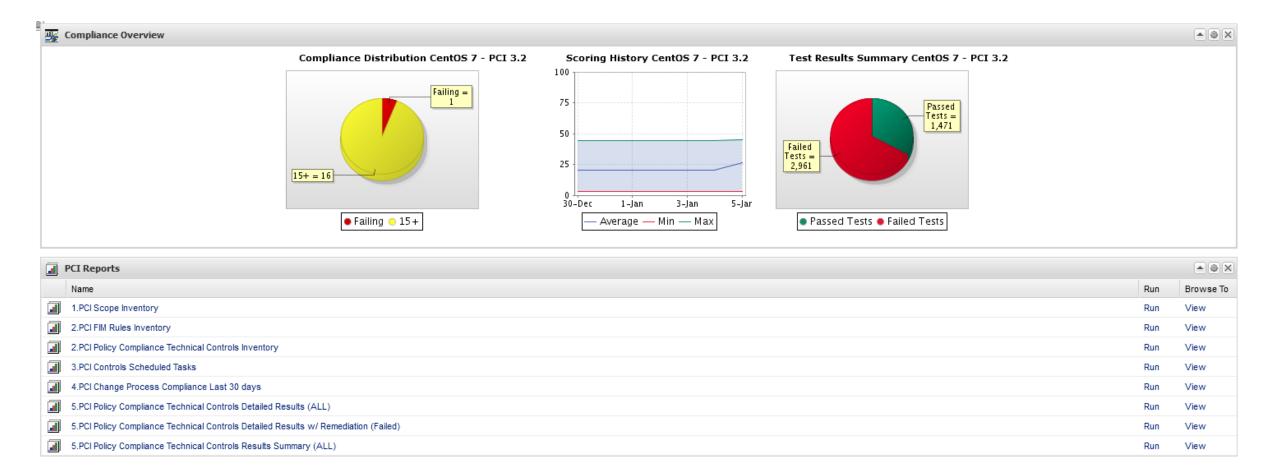
Overall result: Failed @ 12/7/16 1:39 PM

Element: HKEY_LOCAL_MACHINE\SOFTWARE\Microsoft\Windows\CurrentVersion\policies\system|InactivityTimeoutSecs

Result

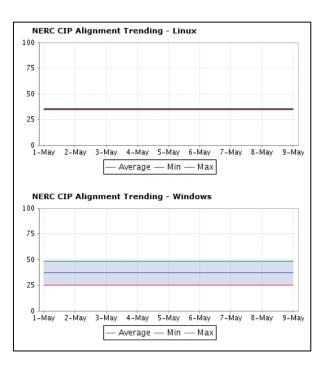


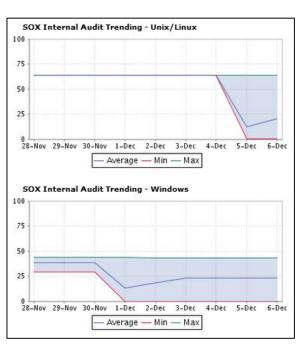
Auditor Dashboard

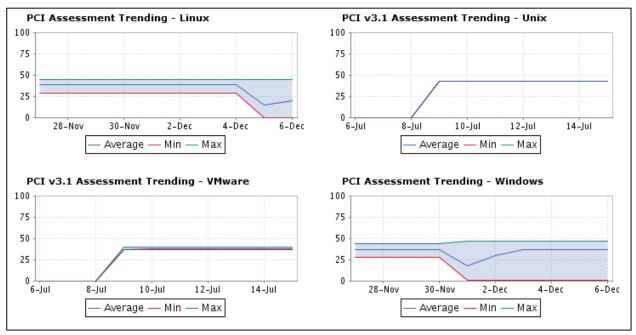




Historical Information to hit KPIs

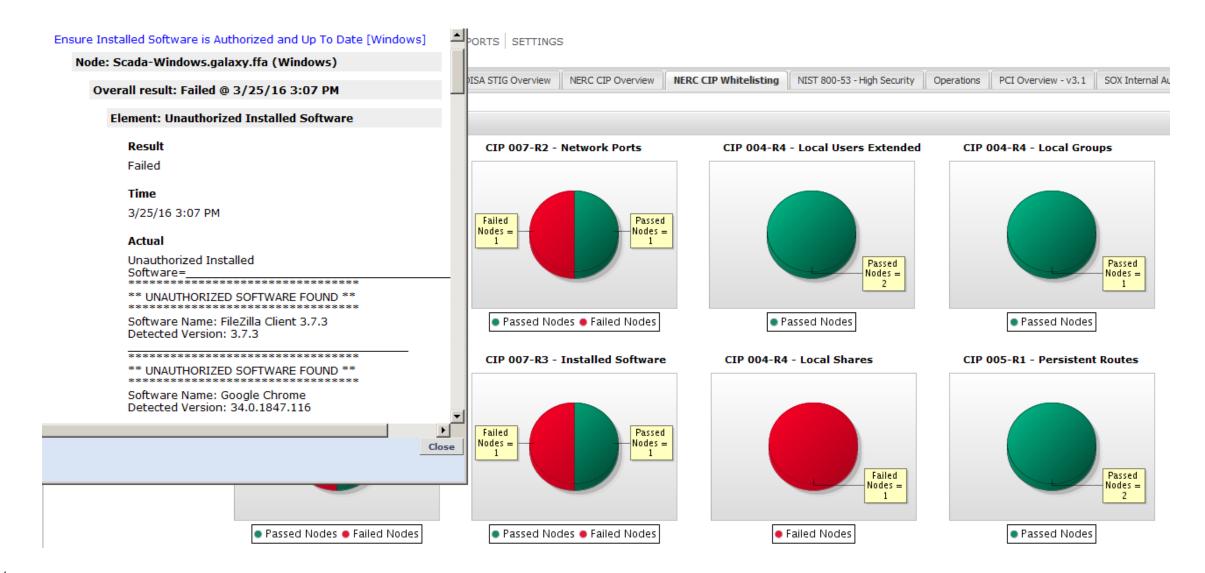






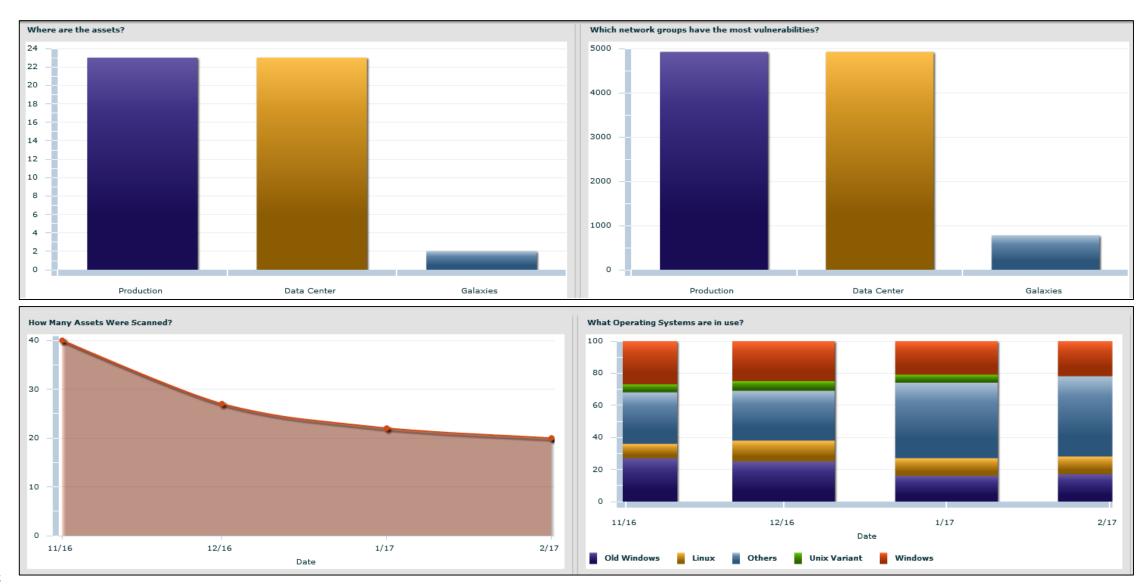


Whitelist Automated Evidence Collection





Vulnerability Overview for in scope assets



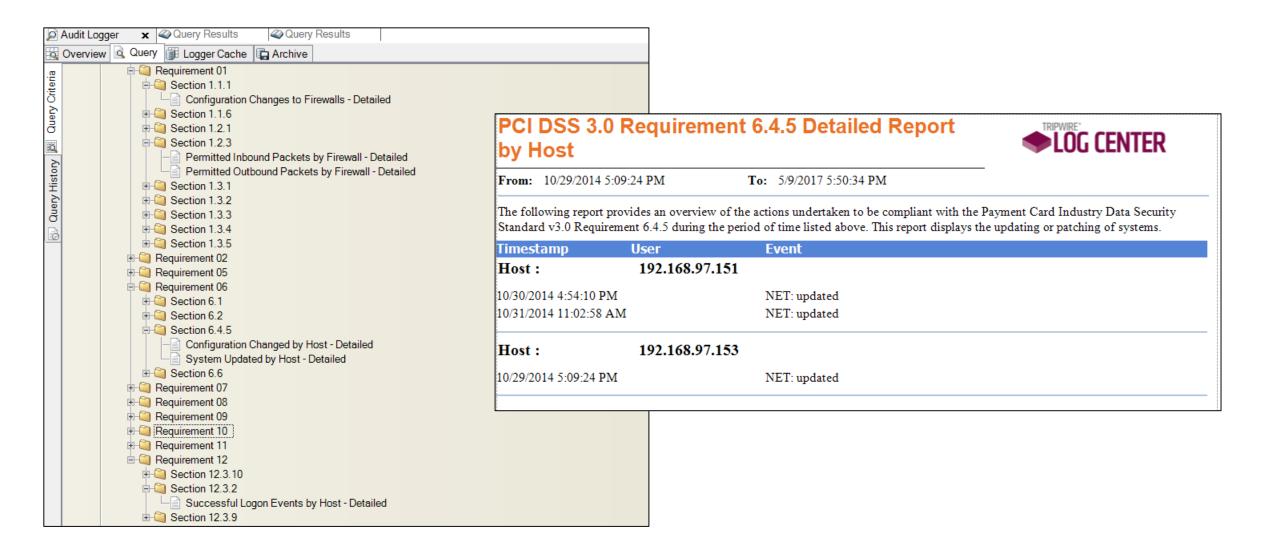


PCI requires CVSS score 8.0 higher vulnerabilities be remediated within 30 days.

| IP | Vulnerability | Score | CVSS Base | First Seen | Last Seen | Last Scan | Target | Fix Days | Remediated |
|------------|---|-------|-----------|---------------------|---------------------|---------------------|---------------------|----------|------------|
| 10.64.0.17 | MS98-004: Microsoft Windows NT IIS MDAC RDS Vul | 59350 | 10.0 | 02/11/2017 19:09:25 | 02/26/2017 19:10:28 | 02/27/2017 19:10:21 | 03/13/2017 19:09:25 | 15 | Υ |
| 10.64.0.17 | MS01-033: Microsoft Index Server and Indexing Sei | 54477 | 10.0 | 02/11/2017 19:09:25 | 02/26/2017 19:10:28 | 02/27/2017 19:10:21 | 03/13/2017 19:09:25 | 15 | Υ |
| 10.64.0.20 | MS03-026: Microsoft Windows DCOM RPC Interface | 50753 | 7.5 | 02/13/2017 19:07:25 | 02/26/2017 19:10:28 | 02/27/2017 19:10:21 | 03/15/2017 19:07:25 | 13 | Υ |
| 10.64.0.17 | MS03-026: Microsoft Windows DCOM RPC Interface | 50741 | 7.5 | 02/16/2017 19:40:31 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/18/2017 19:40:31 | 3 | Υ |
| 10.64.0.57 | MS03-026: Microsoft Windows DCOM RPC Interface | 50724 | 7.5 | 02/09/2017 19:07:17 | 02/24/2017 19:08:18 | 02/27/2017 19:10:21 | 03/11/2017 19:07:17 | 15 | Υ |
| 10.64.0.20 | MS03-026: Microsoft Windows DCOM RPC Interface | 50717 | 7.5 | 02/13/2017 19:07:25 | 02/13/2017 19:07:25 | 02/27/2017 19:10:21 | 03/15/2017 19:07:25 | О | Υ |
| 10.64.0.57 | MS03-026: Microsoft Windows DCOM RPC Interface | 50702 | 7.5 | 02/10/2017 19:08:52 | 02/10/2017 19:08:52 | 02/27/2017 19:10:21 | 03/12/2017 19:08:52 | 0 | Υ |
| 10.64.0.20 | MS03-049: Microsoft Windows 2000 / XP Workstatio | 50147 | 7.5 | 02/13/2017 19:07:25 | 02/26/2017 19:10:28 | 02/27/2017 19:10:21 | 03/15/2017 19:07:25 | 13 | Y |
| 10.64.0.20 | MS04-007: Microsoft Windows ASN-1 Library Integer | 49664 | 7.5 | 02/13/2017 19:07:25 | 02/23/2017 19:46:37 | 02/27/2017 19:10:21 | 03/15/2017 19:07:25 | 10 | Υ |
| 10.64.0.20 | MS04-007: Microsoft Windows ASN.1 Library Integer | 49655 | 7.5 | 02/13/2017 19:07:25 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/15/2017 19:07:25 | 6 | Y |
| 10.64.0.57 | MS04-007: Microsoft Windows ASN.1 Library Integer | 49622 | 7.5 | 02/10/2017 19:08:52 | 02/10/2017 19:08:52 | 02/27/2017 19:10:21 | 03/12/2017 19:08:52 | 0 | Υ |
| 10.64.0.57 | MS04-007: Microsoft Windows ASN.1 Library Integer | 49622 | 7.5 | 02/10/2017 19:08:52 | 02/10/2017 19:08:52 | 02/27/2017 19:10:21 | 03/12/2017 19:08:52 | О | Υ |
| 10.64.0.20 | MS04-011: Microsoft Windows LSASS Buffer Overrun | 49334 | 7.5 | 02/17/2017 19:58:25 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/19/2017 19:58:25 | 2 | Υ |
| 10.64.0.20 | MS04-011: Microsoft Windows Private Communication | 49334 | 7.5 | 02/17/2017 19:58:25 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/19/2017 19:58:25 | 2 | Y |
| 10.64.0.20 | MS04-011: Microsoft Windows Private Communication | 49334 | 7.5 | 02/17/2017 19:58:25 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/19/2017 19:58:25 | 2 | Υ |
| 10.64.0.20 | MS04-011: Microsoft Windows LSASS Buffer Overrun | 49334 | 7.5 | 02/17/2017 19:58:25 | 02/19/2017 19:50:32 | 02/27/2017 19:10:21 | 03/19/2017 19:58:25 | 2 | Υ |
| 10.64.0.57 | MS04-011: Microsoft Windows LSASS Buffer Overrun | 49292 | 7.5 | 02/10/2017 19:08:52 | 02/10/2017 19:08:52 | 02/27/2017 19:10:21 | 03/12/2017 19:08:52 | 0 | Υ |
| 10.64.0.57 | MS04-011: Microsoft Windows LSASS Buffer Overrun | 49292 | 7.5 | 02/10/2017 19:08:52 | 02/10/2017 19:08:52 | 02/27/2017 19:10:21 | 03/12/2017 19:08:52 | О | Υ |



Out of the box Compliance Reports





Summary



