

BigFix Compliance PCI Add-on User Guide



Special notice

Before using this information and the product it supports, read the information in Notices (on page Ivi).

Edition notice

This edition applies to BigFix version 10 and to all subsequent releases and modifications until otherwise indicated in new editions.

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Chapter 1. Overview

HCL BigFix Compliance PCI Add-on is a new chargeable component that provides security configuration checklists that are based on the Payment Card Industry Data Security Standard (PCI DSS). These compliance checks are designed to help ensure continuous compliance at every endpoint in your organization.

This PCI component uses the Security Configuration Management (SCM), which is a module under BigFix Compliance. SCM provides a comprehensive library of technical controls to detect and enforce security configurations for endpoints and servers in your organization. By using BigFix Compliance, you have instant visibility into the configurations of systems within a globally distributed infrastructure.

SCM includes a web interface, BigFix Compliance Analytics (formerly known as Security and Compliance Analytics, or SCA), which summarizes and analyzes large data streams and shows the health of your IT assets. BigFix Compliance Analytics provides report views and tools for managing the vulnerability that is found by the BigFix Compliance checks. These compliance reporting tools and views help you to identify configuration issues, which consequently enforce constant policy compliance.

These technical controls and reporting tools are based on industry best practices and standards for endpoints and server security configuration.

PCI DSS overview

HCL BigFix Compliance PCI Add-on provides checklists for PCI compliance. The Payment Card Industry Data Security Standard (PCI DSS) is a baseline of technical and organizational requirements that are related to the Payment Card Industry.

The PCI DSS states that you must establish a secure payments environment throughout your organization to achieve compliance. BigFix Compliance enforces security configurations for endpoints and servers in your organization. It can help your organization protect endpoints and assure assessors or regulators that you are meeting security compliance for PCI DSS.

By complying with the PCI DSS standards you ensure that cardholder data and sensitive authentication data are secure and well-protected from malicious users and attacks.

The PCI DSS applies to all entities involved in payment card processing and requires continuous compliance with the security standards and best practices set by the PCI Security Standards Council. For more information about PCI DSS, see the PCI Security Standards Council website.

When endpoints are protected, all entities that are involved in payment card processing are secure.

What's new in PCI DSS content update release

HCL BigFix Compliance PCI Add-on provides additional support and enhancement in the recent update.

For a detailed list of releases, see the PCI DSS Checklists.

PCI DSS Policy Reporting

The new PCI DSS Policy reporting, which is available in BigFix Compliance Analytics V2.0.9, identifies the level of compliance for each system within an entire organization based on a specific PCI DSS requirement or PCI DSS milestone. It also provides a report which shows an aggregated view of compliance data across all PCI DSS checklists. To view the available policy reporting, see PCI DSS policies (on page 8).



Note: BigFix Compliance PCI Add-on provides the **PCI DSS Reporting** site to allow you to use the Policy feature in BigFix Compliance Analytics V2.0.9. This site contains the metadata file required for creating the PCI DSS Requirements and Milestones based reports.



Important: You must complete a few other prerequisites before you can use the PCI DSS Policy reporting. For more information, see Setting up the PCI DSS Policy Reports for BigFix Compliance Analytics V2.0 and later *(on page 16)*.

The PCI DSS Policy reporting enables the following users to prepare and manage compliance for PCI DSS:

- Compliance Managers can generate reports from a requirements perspective to prepare for the audit report in accordance with the guidelines provided by the PCI Security Standards Council.
- Compliance Managers and organizations can use the milestone report views during early PCI DSS adoption to understand compliance posture and prioritize actions.
- IT Managers can map the compliance data to specific computers and assign corresponding personnel to remediate non-compliant checks.

Support for PCI DSS v4.0 has been added as the next generation of this standard.

PCI DSS 4.0

On March 31, 2022, PCI Security Standards Council (PCI SSC) released PCI Data Security Standard (PCI DSS) version 4.0. The PCI DSS is a global standard that establishes a baseline of technical and operational standards for protecting account data. The PCI DSS version 4.0 supersedes PCI DSS version 3.2.1 to address emerging threats and technologies better and provide innovative ways to mitigate new security risks.

To get more details on PCI DSS version 4.0 which is the next generation of the standard, refer to Resource Hub.

BigFix released PCS DSS V4.0 for different platforms.

The main highlights of the PCI DSS version 4.0 checklist includes:

Increased number of Fixlets are now included in the standard.

Increased number of sub-requirements and milestones.

Increased remediation count.



Note: Effective March 31, 2024, PCI DSS version 3.2.1 will end its support, and PCI DSS v4.0 will become the only active version of the standard. However, the existing version of PCI DSS version 3.2.1 will remain valid for two years until its discontinuation on March 31, 2024. During this period, organizations has to grasp the changes in PCI DSS version 4.0 and implement any necessary adjustments.

To get the details about the latest release of PCI DSS version 4.0, see Release announcement PCI Add-on.

PCI DSS checklists

SCM is organized through checklists that assess and manage the endpoint and server configurations. Each compliance checklist is distributed by BigFix as an external Fixlet site.

SCM provides a large number of checklists to report compliance and remediate endpoint security configurations based on industry best practices, such as Center of Internet Security (CIS) and Defense Information Systems Agency Security Technical Implementation Guide (DISA STIG). HCL BigFix Compliance also provides security configuration checklists for Payment Card Industry Data Security Standard (PCI DSS) compliance.

Each PCI DSS checklist contains technical checks that are based on the PCI standard. For details on PCI standard, see PCI DSS Requirements and Security Assessment Procedures.



Note: The checks that are specific to PCI DSS Requirements and Security Assessment Procedures v3.2 are considered as best practices until they become mandatory in 2018. You can exclude those checks from the compliance report using the standard exception mechanism available in BigFix Compliance Analytics (formerly known as SCA). For more information, see Creating exceptions (on page 53).

These technical checks assess security policies and configurations on each endpoint, provide remediation steps to fix vulnerabilities, and provide reporting capabilities. Compliance data can be explored from the reports that provide the requirements perspective or the prioritized approach. For BigFix Compliance Analytics V2.0 or later, see Viewing the Policy View List report (on page 28). For BigFix Compliance Analytics V1.8 or earlier, see Viewing custom reports (on page 38).



Note: PCI DSS requirements 9, 11, and 12, which are process-oriented in nature, are not covered in SCM.

For a detailed PCI DSS checklists on operating systems, refer to PCI DSS Checklists.

For more details on released PCI DSS checklists, refer to Release announcement PCI-Addon.

PCI DSS checklist content

You can access a checklist by subscribing to the external Fixlet sites that are provided by SCM. A single site can contain checks for multiple requirements.

Each site contains a set of Fixlets and Analyses, where Fixlets or checks correspond to a specific configuration setting in accordance with the PCI DSS requirements. A Fixlet evaluates a system setting against a specific policy

value and displays the compliance state of an endpoint. An analysis is associated to each Fixlet that retrieves the actual state of each configuration item on an endpoint.

Most of the Fixlets have a parameterized setting to enable customization for compliance evaluation.

Each Fixlet contains instructions on how to manually remediate a non-compliant endpoint. These steps can be found in the **Description** tab. Some of these Fixlets provide actions that you can take to automatically remediate non-compliant settings on endpoints. For more information about remediation support, see the PCI DSS Checklists.

The compliance status of each PCI DSS check and checklist is calculated by Security and Compliance Analytics (SCA), which is now known as BigFix Compliance Analytics, during a periodic Extract Transform and Load (ETL) process. Some checklists require you to run the **Environment Setup Task**. For more information, see Configuring endpoints (on page 12).

PCI DSS policies

BigFix Compliance Analytics V2.0.9 releases a new policy reporting capability, which provides an aggregated view of compliance from a PCI DSS Requirement or PCI DSS Milestone report perspective.

To view the policies, click **Reports > Policies**.

Table 1. Available PCI DSS policies

Policy Report Name

Description

PCI DSS Milestones View

The PCI DSS Milestones View contains checklists that are based on the PCI DSS Milestone. It retrieves compliance data results from the endpoints that are subscribed to the custom copy of the PCI DSS external sites and displays the aggregated data in a single view.

This reporting view can help identify the level of compliance for each system within an entire organization based on the PCI DSS milestones.

This view is based on the *Prioritized Approach for PCI DSS* document and can be useful for early PCI DSS adoption or prioritization of remediation actions. Compliance Managers and organizations can run an early assessment, such as the beginning of the PCI DSS implementation, on the remediation actions that they would need to take on noncompliance high risk systems.

This view also allows IT Managers to map compliance data to specific computers and assign corresponding personnel to run remediation actions on a system with non-compliant checks. They also use this reporting view to help them decide on the work prioritization for IT operators.

You must enable the **PCI DSS Reporting** site from the **License Overview** dashboard in the BigFix console to use this policy view.

Table 1. Available PCI DSS policies (continued)

Policy Report Name

Description

PCI DSS Requirements View

The PCI DSS Requirements View contains checklists that are based on each PCI DSS Requirement. It retrieves compliance data results from the endpoints that are subscribed to the custom copy of the PCI DSS external sites and displays the aggregated data in a single view.

This reporting view can help identify the level of compliance for each system within an entire organization based on the PCI DSS requirement. This view is based on the *Requirements and Security Assessment Procedures* document and can be useful for Compliance Managers in preparing for an audit.

You must enable the **PCI DSS Reporting** site from the **License Overview** dash-board in the BigFix console to use this policy view.

PCI DSS Checklists

The PCI DSS Checklists view contains custom PCI DSS checklists only. It retrieves compliance data results from the endpoints that are subscribed to the custom copy of the PCI DSS external sites and displays the aggregated data in a single view.

This reporting view can help Compliance Managers identify the level of compliance for each system within an entire organization based on the overall PCI DSS checklist. It can help also IT Managers to map compliance data to specific computers and assign corresponding personnel to run remediation actions on a system with non-compliant checks.

You must enable the **PCI DSS Reporting** site from the **License Overview** dashboard in the BigFix console to use this policy view.

SCM Checklists

The SCM Checklists view contains all SCM checklists, including the out-of-thebox checklists for PCI DSS. This reporting view shows the compliance results of the endpoints that are subscribed to the PCI DSS external sites and non-PCI DSS related external and custom sites.

This reporting view is available to allow users, who do not have license to the BigFix Compliance PCI Add-on offering, to use the Policy feature in BigFix Compliance version 2.0 and later. Therefore, it is not dependent on the **PCI DSS Reporting** site.



Note: The source documents for the PCI DSS Requirement and Milestone Policy Views are made available by the PCI Security Standards Council and can be accessed from the *PCI Security Standard Council Document Library* at https://www.pcisecuritystandards.org/document_library?category=pcidss&document=pci_dss.

Sample reports can be found in Viewing reports on BigFix Compliance Analytics V2.0 and later (on page 27).

Key users

Learn how users use the PCI DSS checklists for their role.

IT Managers, who commonly take the role of a BigFix Console Operator, focus on the detailed day-to-day configuration management of all systems to use detailed information for each endpoint. They are expected to run remediation actions on endpoints. They use the PCI DSS checklists to enforce security policies and document the current state of compliance against corporate policies. They also use the PCI DSS Milestones Reporting view to help them decide on the work prioritization for IT operators.

Compliance Managers use the PCI DSS reporting when preparing for audit reports. The reports can be generated based on a PCI DSS template that covers requirements or milestones, and can help in assessing the actions needed to resolve a non-compliance check.



Note: If concerns regarding separation of duties arise, use BigFix version 9.2 or later where access control for actions is allowed.

Chapter 2. Setup

Complete configuration steps to access the PCI DSS checklists and checks and ensure accurate relevance evaluation on the endpoints.



Note: BigFix for Security and Compliance Analytics (SCA) is now called BigFix Compliance Analytics. The listed resources have yet to be rebranded.

This guide assumes that you have installed and configured Security Management Configuration (SCM) successfully. You can access the PCI DSS checklists only after that step is completed and if you have a license for BigFix Compliance PCI Add-on.

This guide does not describe the installation and configuration steps for BigFix nor for BigFix Compliance Analytics. For a list of documentation on SCM and BigFix Compliance Analytics, see Resources (on page 55).

Subscribing to the SCM reporting site

To fully use the reporting functions in the BigFix Compliance Analytics, you must subscribe to the SCM reporting site.

- 1. From the BigFix console, go to the BigFix Management and click License Overview. The dashboard opens.
- 2. Scroll down to the Security and Compliance section and enable the SCM Reporting site.
- 3. Click **SCM Reporting** from the navigation tree.
- 4. From the **Computer Subscriptions** tab, change the value from **No computers** to **All computers** then select **Save Changes**.

Accessing the PCI DSS Fixlet sites

Before you can access the security configuration checklists that are related to PCI DSS, you must acquire the sites and accept the license agreement. After you acquire the site, you must gather the contents of the site to your console. You must also subscribe your computers to the site so that they can access the PCI DSS content.

If you have enabled any of the PCI DSS beta sites in your environment, you must first remove them to avoid any conflicting issues with the production sites. If you fail to do so, the content in the production sites will fail.

You can access the PCI DSS sites only if you have a valid license for the HCL BigFix Compliance PCI Add-on component. For details about getting a license, contact HCL Software Support.

The procedure for acquiring the PCI DSS sites and gathering the contents of the site is similar to the procedure for other BigFix applications and sites. You can subscribe to a PCI DSS site by using the License Overview Dashboard from the BigFix Management domain only if you have purchased the license.

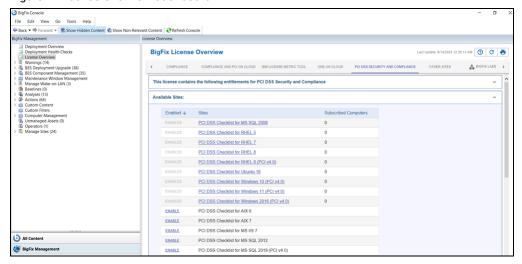
- 1. From the BigFix console, go to the BigFix Management domain and click License Overview.
- 2. Scroll down to the PCI DSS Security and Compliance section of the License Overview dashboard.



Note: The **PCI DSS Security and Compliance** section will only be visible if you have purchased the license.

3. Click Enable beside the PCI DSS sites that you want to your computers to subscribe to.
The site is added as an external site in the HCL BigFix Console. It typically takes a few minutes for the contents to become available on your system.

Figure 1. License Overview dashboard



- 4. Go to the **Security Configuration** domain.
- 5. Click All Security Configuration > Sites > External Sites, and then click the added site.
- 6. Click the **Computer Subscriptions** tab to subscribe the computers to a site.



Note: Limit the access to the site to only the computers that you want to be able to use the PCI DSS checklists.

Configuring endpoints

Some checklists require you to run the **Environment Setup Task** to populate the necessary properties on the endpoints to enable relevance evaluation. Run this task when it shows as relevant and refresh the results on the endpoint.



Note: You only need to complete this additional prerequisite task if you are using the PCI DSS Checklist for AIX 7 or the PCI DSS Checklist for AIX 6 site.

If Trusted Execution (TE) is implemented in AIX systems, the **Environment Setup Task** is not able to run the scripts from the Fixlets as designed, which would then cause relevance issues. To avoid such issues, provide the following paths in the Trusted Execution Path list during TEP enablement:

```
/var/opt/BESClient/__BESData/<siteName>/SCM/AIX/71
/var/opt/BESClient/__BESData/<siteName>/SCM/AIX/util
/var/opt/BESClient/__BESData/<siteName>/SCM
```

where <siteName> is the name of the site that is used in your environment.

For external sites, the name used in the path is identical to the site name. For example, /var/opt/BESClient/
__BESData/PCI DSS Checklist for AIX 7/SCM/AIX/71.

For custom sites, the spaces in the name are replaced with underscores and the <code>customSite_prefix</code> is added. For <code>example</code>, <code>/var/opt/BESClient/__BESData/CustomSite_Checklist_for_AIX_7/SCM/AIX/71</code>.

You must run the Environment Setup Task or Deploy and Run Taks, if your checklist includes any of these:

Figure 2. Deploy and Run Task in the PCI DSS Checklist for RHEL8 (PCI 4.0) site

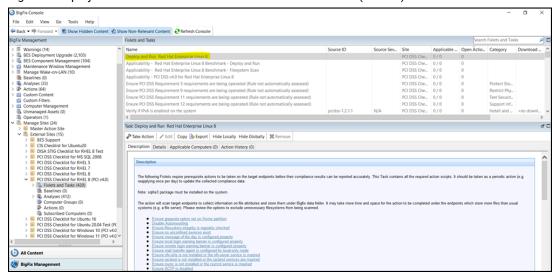
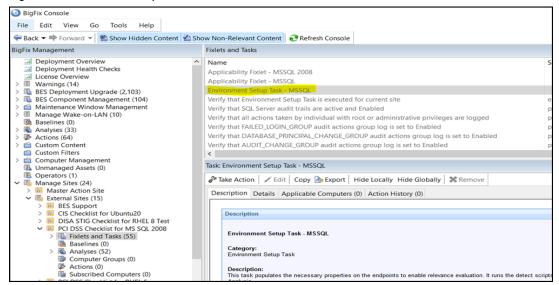


Figure 3. Environment Setup Task in the PCI DSS Checklist for MS SQL 2008 site





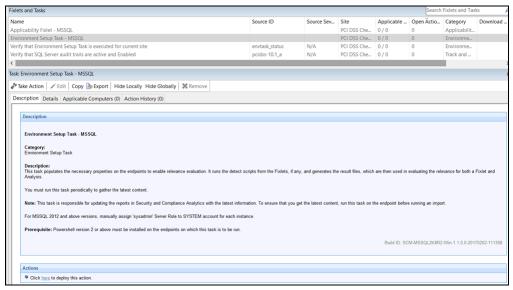
Note: You do not need to complete this task if you are not using any of these checklists.

The check Fixlets from these sites will only show the current results when the Environment Setup Task completes.

Schedule periodic execution of the Environment Setup Task if you are using any of the mixed content sites.

- 1. From the Security Configuration domain, click All Security Configuration > Sites > External Sites.
- 2. Select a checklist, and click Fixlets and Tasks.
- 3. In the List panel, locate and click Environment Setup Task.

Figure 4. Environment Setup Task in the PCI DSS Checklist for MS SQL 2008 site



- 4. Click **Take Action** to deploy the task. You can also click the appropriate link in the Actions box.
- 5. Select the appropriate endpoints in your environment.
- 6. Click the Execution tab.

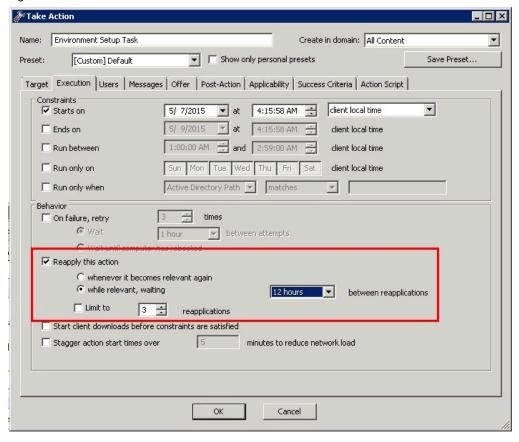


Figure 5. Take Action - Execution tab

- 7. Set the environment task to run daily and click \mathbf{OK} .
- 8. When the task completes, refresh the endpoints.

The **Environment Setup Task** also updates the reports in the Security and Compliance Analytics console (now known as BigFix Compliance Analytics) with the latest results. To ensure that you get the latest content, run this task on the endpoint before running an import. For automatic, daily import to BigFix Compliance Analytics, there is no need to schedule more than one run of the **Environment Setup Task** action.

Filesystem scan configuration

If you are using the PCI DSS UNIX/Linux checklist, you can further configure the range of filesystems and directories to be included in the property file used for relevance evaluation.

Some of the UNIX/Linux Fixlets verify attributes and ownership of various subsets of files on local drives, including the property file that is created by the **Environment Setup Task**. This property file denotes the list of files that are used by the Fixlets in the UNIX/Linux checklist. It contains a list of all local and regular files with the exclusion of remote filesystems and special filesystems such as /tmp or /dev.

BigFix provides the globalfind feature to help prevent multiple scanning of local filesystems, which in turn provides better performance results.

You can set the parameters for the globalfind feature from **Configure Filesystem Scan Options** to indicate the mount points, directories, or filesystems that are not to be included in the property file. For example, you can specify to skip the data partitions that have too many files.



Note: The parameter changes will only take effect after the next Environment Setup Task run.

Setting up the PCI DSS Policy Reports for BigFix Compliance Analytics V2.0 and later

BigFix Compliance Analytics version 2.0 provides PCI DSS Policy reports that contain aggregated data across checklists, which identifies the level of compliance for a specific PCI DSS requirement or milestone. To generate the policy reports, complete the required setup.

You must configure both the BigFix console and BigFix Compliance Analytics to view the following PCI DSS Policy Reports:

- · PCI DSS Milestones View
- PCI DSS Requirements View
- · PCI DSS Checklists

These reports retrieve compliance data results from custom sites, not from the external sites. To ensure a complete report of your deployment in the listed reports, configure custom sites for each PCI DSS external site containing the checks. This rule does not apply to the PCI DSS Reporting site.



Note: Endpoints that are subscribed to the PCI DSS external sites are shown in the SCM Checklists policy report. The configuration steps discussed in this section do not apply to the SCM Checklists policy report.

If there are several custom copies of a PCI DSS external site, an endpoint must be subscribed to only a single instance of the custom site. For example, if PCI DSS Checklist for RHEL 5 has two custom sites named RHEL 6-Custom1 and RHEL 6-Custom2, you must subscribe the endpoints to either RHEL 6-Custom1 or RHEL 6-Custom2 at a single time. If the endpoints are subscribed to both custom sites, ETL will fail during import. A sample message for the failure is as follows:

```
Duplicate Check Result(s) detected, you have fixlets with the same scm-id that belong to two different sites (external and custom site), you need to unsubscribe from external site and re-run Import.
```

1. From the BigFix console, create a custom site for each external PCI DSS checklist and subscribe endpoints to it.

You can use the **Create Custom Checklist** dashboard from the SCM Reporting site to create custom copies of the checklists. For more information, see Creating custom checklists (on page 19).



Important: You can only use one custom copy of the PCI DSS external site. Do not subscribe the endpoints to the external sites because the results are not covered in the reporting.

- 2. From the BigFix console, enable the PCI DSS Reporting site.
 - a. Go to the BigFix Management and click License Overview. The dashboard opens.
 - b. Scroll down the dashboard and find the Security and Compliance section, and enable the PCI DSS Reporting site.
 - c. Click PCI DSS Reporting from the navigation tree.

The **PCI DSS Reporting** site contains the metadata file that is needed to create policies in BigFix Compliance Analytics version 2.0 and later. You do not need to set the computer subscriptions for this site.

Configure the API connection from BigFix Compliance Analytics.
 For more information about creating a data source, see Adding a data source.

Disabling the PCI DSS Policy Reports

If for any reason you decide not to use the PCI DSS Policy reporting after completing the configuration, you can still disable the reporting with a few steps.

To disable the generation of PCI DSS Policy Reports in BigFix Compliance Analytics V2.0.9, complete the following steps.

- Disable the PCI DSS Reporting site from the BigFix console.
 Do the following steps:
 - a. Go to the Security Configuration domain.
 - b. Click All Security Configuration > Sites > External Sites, and then click the PCI DSS Reporting site to open it.



Note: You can also open the PCI DSS Reporting site from the License Overview dashboard.

- c. From the Work Area Tool bar, click Remove.
- 2. Run a data import from the BigFix Compliance Analytics console.

 For more information, see Importing data to BigFix Compliance Analytics (on page 24).

Chapter 3. Using checks and checklists

The check Fixlets in Configuration Management checklists assess an endpoint against a configuration standard. Many check Fixlets have a corresponding analysis, sometimes referred to as measured values, that report the value of the element that the check Fixlet evaluates.

Viewing check Fixlets from the HCL BigFix console

A check Fixlet becomes relevant when a client computer is out of compliance with a configuration standard. By viewing the Configuration Management Fixlets, Console Operators can identify non-compliant computers and the corresponding standards.

Subscribe to the PCI DSS Fixlet sites to gain access to the check Fixlets.

Complete the following steps to view the check Fixlets in the HCL BigFix Console after subscribing and gathering the site content.

- 1. From the Security Configuration domain, click All Security Configuration > Sites > External Sites.
- 2. Expand a checklist.
- 3. Click Fixlets and Tasks. The Fixlets and Tasks section opens.
- Click one of the Fixlets displayed in the list.
 The Fixlet opens with the following tabs: Description, Details, Applicable Computers, and Action History.
- 5. Click the **Description** tab to view the text that describes the Fixlet.

The Fixlet is applicable to a subset of endpoints on your network. The size of that subset is shown in the **Applicable Computers** tab.

A Fixlet typically has a description of the check appended with the rationale and guidelines of the actions for remediation. If the Fixlet is relevant, you must take an action listed in the Remediation section of the description to remediate the noncompliance. You can also access the associated analysis from the description.



Note: The Check ID refers to the Source ID of the Fixlet.

If you are using any of the checklists that contains Deploy and Run Task or Environment Setup Task, run the Environment Setup Task or Deploy and Run Task.



Note: Run the **Environment Setup Task** periodically to gather the latest results. For more information about this task, see Configuring endpoints (on page 12).

Viewing checks from BigFix Compliance Analytics

The compliance status of each PCI DSS check and checklist is calculated by BigFix Compliance Analytics during a periodic Extract Transform and Load (ETL) process.

BigFix Compliance Analytics provides report views and tools for managing the vulnerability of PCI DSS checks.

The PCI DSS checks that are activated in the HCL BigFix console are evaluated on each computer in your deployment and returns a status of pass, fail, or not applicable to BigFix Compliance Analytics.

Each computer also reports computer properties and analysis values, such as check measured values that are active in your deployment. Check results are aggregated by the BigFix Compliance Analytics server and augmented by computer properties and analysis values to provide compliance overviews and detailed lists of results.

For more information about how the checks are presented in different compliance reports, see Understanding the results in BigFix Compliance Analytics (on page 23).

Creating custom checklists

Create custom copies of the PCI DSS content if you want to modify the checks based on a specific corporate policy. You can manually create a custom site to host the PCI DSS checklists or use the Create Custom Checklist wizard to create copies of the PCI DSS checklists and save them in a custom site.

You must subscribe to the SCM Reporting external site.

You can use custom checklists to fine-tune your ability to customize Configuration Management parameters, which gives you control over your security status. Custom checklists target specific sets of computers with tailored content using the subscription mechanism. This allows statistics to be gathered with finer granularity. For more information, see Modifying check parameters (on page 20).

- · Creating custom checklists manually
 - From the Security Configuration Domain, go to Configuration Management > Checklist Tools > Create Custom Checklist.
 - 2. Enter the name of the new checklist.
 - 3. Select the target platform.
 - 4. Click the drop-down menu to select which external checklist you copy the checks from. As you select the checks, they are shown in the staged list at the lower part of the window.
 - 5. Click the **Activate Measured Value analyses after copying** check box to activate all analyses that were copied.
 - 6. Click Create Checklist.

The console begins copying the checks in the selected lists into your new custom checklist. The process might take several minutes, depending on the number and size of the checklists selected.

- · Creating custom checklist by using the Create Custom Checklist wizard
 - 1. Select Tools > Create Custom Site.
 - 2. You are prompted for a name for your custom site. Enter a name and click **OK**.
 - 3. From the Domain panel, find your site under Sites > Custom and click it to describe your site.
 From the Details tab, enter a description of your site. From the Domain pull-down menu, select a Domain to house your site.

- 4. From the **Computer Subscriptions** tab, indicate which subset of your BigFix client computers you want to subscribe to this site.
- 5. From the **Operator Permissions** tab, you can grant specific access permissions to specific operators.
- 6. Click the **Save Changes** button above the work area to complete the description of your site. You must enter your password to propagate your new custom site.

Subscribe computers to the custom checklist.



Note: Custom checklists do not support site relevance, so take extra precaution when you subscribe computers to custom checklists.

Modifying check parameters

In addition to monitoring compliance status and remediating settings that are out of compliance, you can also modify the values for the defined configuration settings according to company policies.

To modify the desired value of the check parameter in the Fixlet check description, you must first create a custom site. For more information about custom sites, see Creating custom checklists (on page 19).

Parameters are stored as site settings, so you can parameterize the same check differently for each site containing a copy of the check.



Note: Not all checks in custom sites can be parameterized.

Some of the Fixlet checks allow you to set a more restrictive value than the one specified by the PCI DSS, giving you greater flexibility to customize security policies to meet a specific situation.



Important: Custom parameterization may take a few minutes to process. Allow enough time between updating a check parameter and executing the Environment Setup Task for optimum results.



Note: Pparameter changes will only take effect after you run the **Environment Setup Task**. For information about this task, see Configuring endpoints (on page 12).

- 1. Open the Fixlet check and click the **Description** tab.
- 2. Scroll down to the Parameters section and enter the value.

Figure 6. Parameterization



- 3. Click Save.
- 4. Deploy the Fixlet.

Remediating configuration settings

The PCI DSS checklists support remediation. Console operators can resolve a vulnerability issue with a single action. A remediation action can only be taken on an endpoint where the Fixlet is relevant.

You can audit, assess, and remediate configuration settings using Security and Compliance Analytics (SCA), which is now known as BigFix Compliance Analytics. For Fixlet checks that can be automatically remediated, an action is displayed in the relevant Fixlet. You can take a remediation action only on the relevant and selected endpoints.



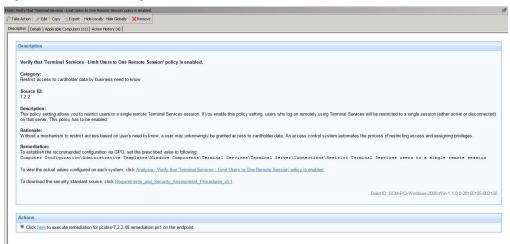
Note: Not all Fixlets have a remediation action.



Note: When the external global policy is enabled, any changes to the local endpoint is overwritten. In such case, the remediation action must be run using the external global policy solution.

- 1. From the Security Configuration Domain, go to All Security Configuration > Fixlets and Tasks.
- 2. Expand the sub-folders to search for the Fixlet you want to enable.
- 3. In the Fixlet window, click the Description tab and scroll down to the Actions box.
- 4. Click in the Actions box link to remediate the specified policy issue.

Figure 7. Check containing an action for remediation



5. Set your parameters in the Take Action dialog and click **OK**.

Chapter 4. Understanding the results in BigFix Compliance Analytics

Use BigFix Compliance Analytics (formerly known as Security and Compliance Analytics or SCA) to navigate and explore security configuration check results.

BigFix Compliance Analytics is a web-based application designed to help you manage security, vulnerability, and risk assessment. The application tabulates security and vulnerability compliance check results to identify configuration issues and report levels of compliance toward security configuration goals. Compliance data is collected with each nightly import and is presented with historical context for trend analysis.

These reports can be filtered, sorted, grouped, customized, or exported according to your preferences and requirements.

For more information about using BigFix Compliance Analytics, see the BigFix Compliance Analytics User's Guide.

Starting BigFix Compliance Analytics

Use any of the supported web browsers to open the web-based application.

Before you can use Security and Compliance Analytics (SCA), which is now known as BigFix Compliance Analytics, you must complete the necessary installation and configuration steps. For more information, see the BigFix Compliance Analytics Setup Guide.

- 1. Open Mozilla Firefox or Internet Explorer.
- 2. In the **URL** field, enter http://localhost:caport/scm, where port is the server HTTP port that was specified during the BigFix Compliance Analytics installation.

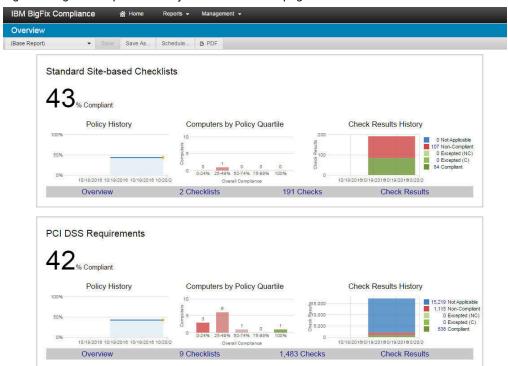


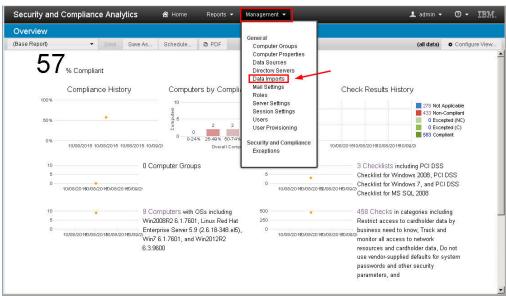
Figure 8. BigFix Compliance Analytics 1.9 - Overview page

Importing data to BigFix Compliance Analytics

Depending on your configuration, the Extract Transform and Load (ETL) process that computes the compliance status of each check and checklist could take a long time. To ensure that you are viewing the latest reports, verify that the imports are configured to run automatically and that a recent import has completed successfully.

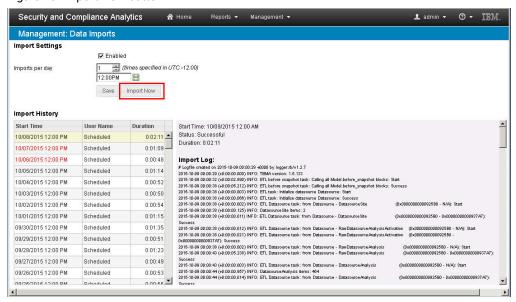
1. From the BigFix Compliance Analytics console, click Management > Imports.

Figure 9. Management menu



2. Click Import Now.

Figure 10. Import Now button



Viewing reports from BigFix Compliance Analytics

BigFix Compliance Analytics displays reports that contain the compliance status of your deployment. Each PCI DSS checklist and its checks are exported periodically into Compliance Analytics.

You can view the compliance status of your deployment from any of the four report types:

Overview Reports

If no PCI policies are enabled, the page will automatically default to the SCM overview.

In BigFix Compliance Analytics version 2.0 and later, the home page defaults to the Overview report that provides a graphical representation of the Policy History, Computers by Policy Quartile, and Check Results History for all PCI DSS Policies if the steps discussed at Setting up the PCI DSS Policy Reports for BigFix Compliance Analytics V2.0 and later (on page 16) are completed.

List Reports

The List report shows a list of checklists, checks, computers, computers groups, or vulnerabilities in the deployment. It provides the attributes of each type and the overall, historical aggregate compliance results of all types on all visible computers.

Each row entry in the report represents a list type, such as checklists, checks, computers, computers groups, or vulnerabilities.

Check Results Reports

The Check Results report shows the list of all checks and computers, attributes of each computer and check, and the historical compliance result for each check on each computer.

Each row entry in the report represents a single check on a single computer.

Exceptions Reports

The Exception report shows the list and status of exceptions in the given scope applied to each computer visible to the logged-in user, together with attributes of each check, each computer, and each exception.

Each row entry in the report represents a single check on a single computer as specified by an exception.

Each of these reports contain graphical and tabular views of different aspects of your deployment compliance status. For more information about the available report types, see Viewing deployment compliance status reports.

Viewing PCI DSS compliance results

This section shows how you can view the results of PCI DSS compliance at a checklist, checks, and check results levels.



Note: Data is updated in BigFix Compliance Analytics once a day. To ensure that your reports contain the latest data, run the import feature after running the Environment Setup tasks in the applicable sites.

Before you start accessing the available reports, complete the following tasks:

- Import data to ensure that the reports contain the latest data. For more information, see Importing data to BigFix Compliance Analytics (on page 24).
- If you were involved in the Early Access Program, unsubscribe from any of the PCI DSS beta sites to avoid any issues during import.

Viewing reports on BigFix Compliance Analytics V2.0 and later



Note: The PCI DSS Policy Reports are available only when you complete the steps described in Setting up the PCI DSS Policy Reports for BigFix Compliance Analytics V2.0 and later *(on page 16)*.

A policy view is based on an approach to gain compliance for PCI DSS, such as PCI DSS requirement or PCI DSS milestone. For more information about policy views, see PCI DSS policies (on page 8).

For simplicity, these checklists that are associated to policies will be referenced as Policy Checklists in this document.

Policy Checklists contain a collection of checks that run across multiple PCI DSS sites. These checklists provide a new way of reporting, which can help you better assess and identify the level of compliance in your organization.

Viewing the Overview report

Starting from BigFix Compliance Analytics V2.0 and later, the home page defaults to the Overview report that provides a graphical representation of the Policy History, Computers by Policy Quartile, and Check Results History for all PCI DSS Policies.

You can quickly drill down to the checklists, checks, or check results views for each PCI DSS Policy Overview report by using the quick links.

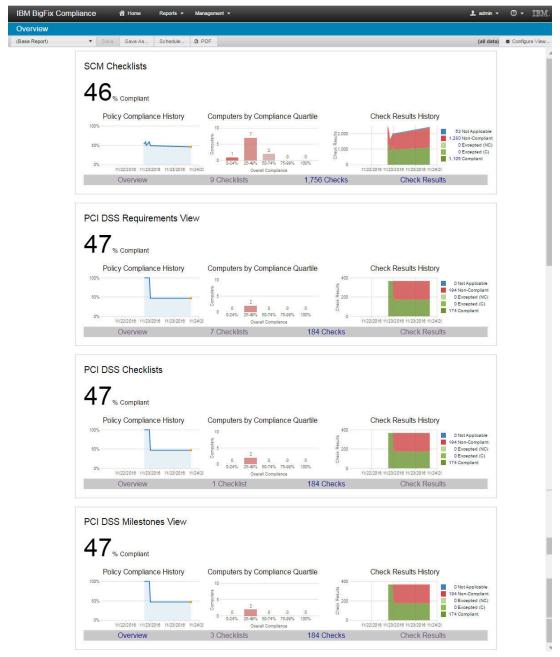


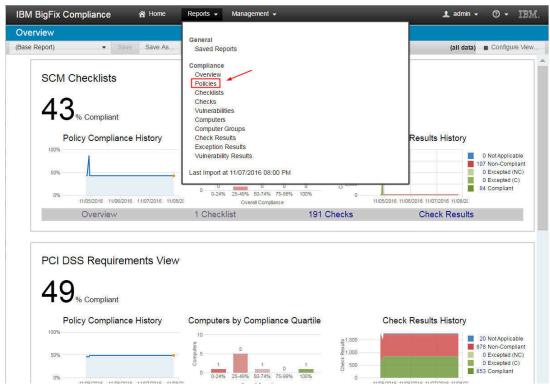
Figure 11. Overview page displaying the PCI DSS policies compliance overview summary

Viewing the Policy View List report

The Policy View List report shows a list of policies that provide the cumulative state aggregated on the level of a specific PCI DSS requirement or milestone. Results from the Requirements and Milestones reports include summary views at the home page or on the computer level.

To view the policies, click Reports > Policies. You can also access them from the Overview page.

Figure 12. Policies menu



The Policy View List report provides high-level compliance information at a policy level or across checklists.

Figure 13. List of available policies



Viewing the Policy View Overview report

The Policy Overview report shows information about a single policy and overall, historical compliance for the policy as applied to all computers visible to logged in users.

The Overview report provides a graphical representation of the Policy History, Computers by Policy Quartile, and Check Results History for each of the PCI DSS Policy. The BigFix Compliance Analytics V2.0.9 home page lists the Overview reports for all policies.

You can click each policy from the home page to display the standard Overview report. The PCI DSS Requirement View is shown as an example.

Figure 14. PCI DSS Requirement policy overview



You can also access the standard Overview report from the Policy List report by clicking a policy view name.

Viewing the Policy Checklist List report

A policy checklist is based on the policy views or compliance approaches that are made available in BigFix Compliance Analytics V2.0.9. It contains a collection of checks that may belong to multiple PCI DSS checklists or sites.

You can view all the checklists under a policy from the Overview report, either from the home page or the Policy View Overview report. The quick links in each of the policy view in the home page is clickable.

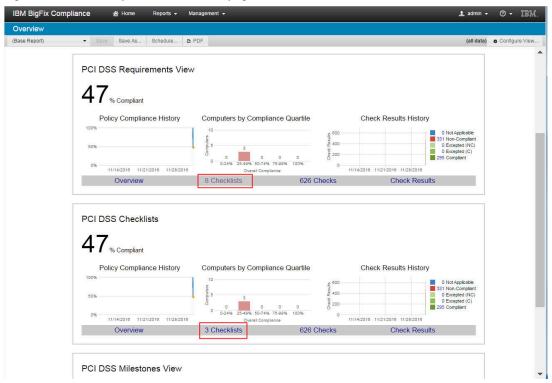


Figure 15. Overview report from the home page

The Policy Checklist List report view provides high-level compliance information at a checklist level based on a Policy View. It displays the list of checklists in the deployment together with the attributes of each checklist and the overall, historical aggregate compliance results of all checks on all visible computers for each checklist.

IBM BigFix Compliance ☆ Home Reports -Management ▼ admin
 ▼ Ø - IBM. Policy: PCI DSS Requirements View Schedule... CSV PDF 8 rows (all data) (Base Report) Configure View Name 0% 25% 50% 75% 1009 33, 3 6 PCI DSS Requirement 1 PCI DSS Requirement 10 336 Checks 3 Computers 58_% PCI DSS Requirement 2 12 Checks 3 Computers [↓] 33_% ■ PCI DSS Requirement 4 PCI DSS Requirement 5 12_% PCI DSS Requirement 6 124 Checks 3 Computers 48, 🔎 PCI DSS Requirement 7 61 Checks 3 Computer 21, PCI DSS Requirement 8

Figure 16. Policy List Report

Viewing the Policy Checklist Overview report

The Policy Checklist Overview report shows information about a single policy checklist, which may contain checks from multiple PCI DSS checklists or sites. It includes information such as the quantity of checks in the policy checklist, and the overall, historical aggregate compliance for the policy checklist as applied to all computers visible to logged in users.

To view the overview information of a policy checklist, click the checklist name from the Checklist List report. The PCI DSS Requirement 5 policy checklist is shown as an example. The Checklist Overview Report displays.

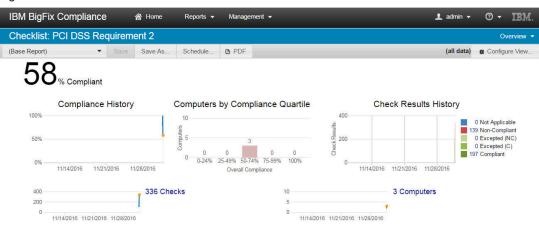


Figure 17. Checklist overview

The Overview shows a graphic representation of compliance history, computers by compliance quartile, and check results history with an overall compliance percentage shown in the top-left corner of the console.

Viewing the Checks List report

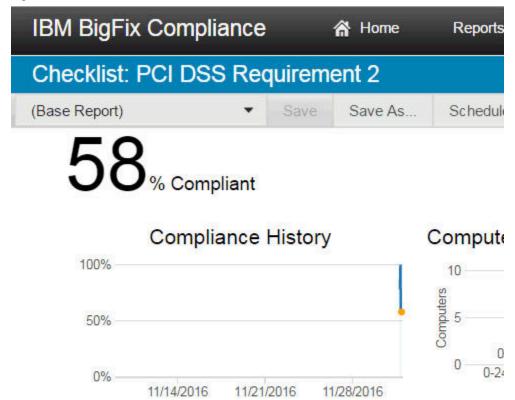
The Checks List report shows the list of checks available in a policy checklist.

In the following figure, the Policy Checklist Overview report shows that there are 336 checks available in the PCI DSS Requirement 2 checklist. To view these checks in detail, drill down to the checks by clicking on the link.

336 Checks

Figure 18. Number of available checks in a checklist

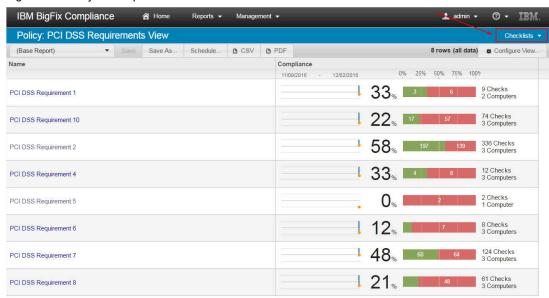
400 200 0



You can also access the Check List report from the Policy List report by the Report View drop-down list, which is highlighted in the following figure. This method allows you to view all the checks for a policy view, as well as to drill down to a particular checklist and then view its checks.

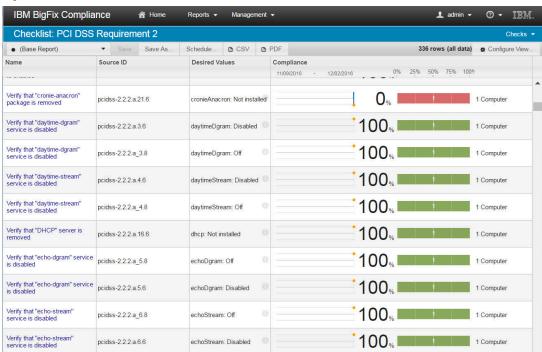
11/14/2016 11/21/2016 11/28/2016

Figure 19. Policy List Report



The Checks report shows the list of checks in the given scope together with the attributes of each check and the overall, historical aggregate compliance results (the aggregate of all visible computer's pass and fail score) of each check. To see the direct reference to a standard, you can configure the report view to display the Source ID.

Figure 20. List of checks



Alternatively, you can access the overall Checks List report from the Overview report in the home page. You can then filter the checks according to your preference.

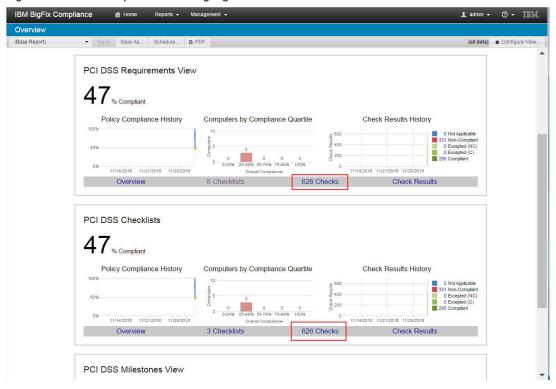


Figure 21. Overview report with the highlighted Checks link

Viewing the Checks Overview report

The Checks Overview report shows detailed information about a check, such as the source information, description, and remediation steps. It also contains overall, historical aggregate compliance of the check as evaluated by all computers visible to logged in users.

You can drill down to each check from the Checks List report to view more details.

The Checks Overview report shows a graphic representation of Compliance and Check Results history with an overall compliance percentage.

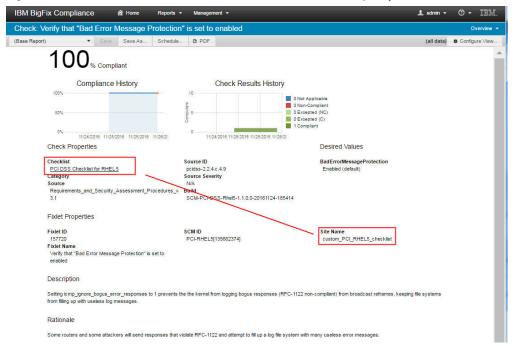


Note: The PCI DSS Checklists policy view does not cover the external sites for the PCI DSS checklists in BigFix Compliance Analytics version 2.0 and later.

The checks under the PCI DSS Checklists policy view are evaluated using the custom copy of the checklist as indicated in the sample Check Overview report in the following figure:



Figure 22. Overview details of a check from the PCI DSS Checklists policy view



To ensure accurate reporting, complete the steps described in Setting up the PCI DSS Policy Reports for BigFix Compliance Analytics V2.0 and later (on page 16).

Viewing the Check Results List report

The Check Results List report shows the checklist, check name, computer name, the date when the results were last seen, and the level of compliance. It provides the attributes of each computer and check, and the historical compliance result for each check on each computer.

You can access the Check Results report for a particular policy view from the home page as shown in the following figure.

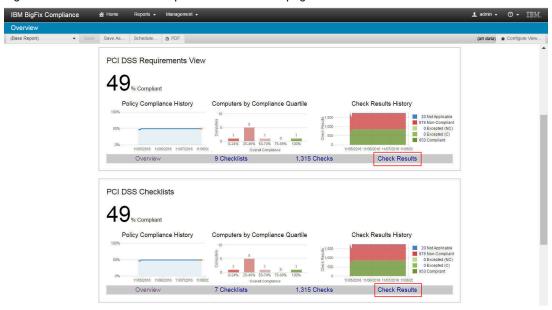
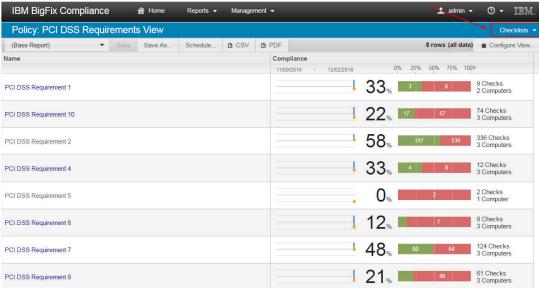


Figure 23. Check Results List Report link in the home page

Alternatively, you can access the Checks Results List report for a particular policy view from the Policy List report by using the drop-down list as shown in the following figure.

Figure 24. Policy List Report



You can then configure the view to show only the PCI DSS checks that you need by using the source ID as the filtering condition.

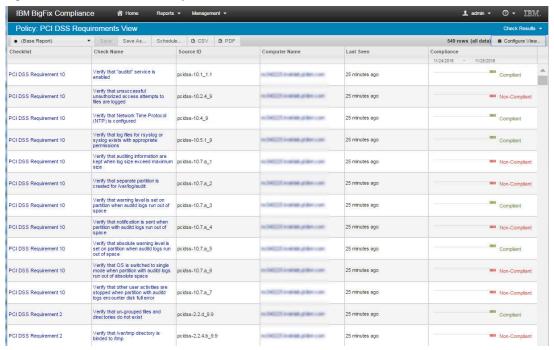


Figure 25. Checks Results List Report

Viewing custom reporting on BigFix Compliance Analytics V1.8 and earlier



Note: The PCI DSS Policy Reports are available only when you complete the steps described in Setting up custom reporting for BigFix Compliance Analytics V1.8 and earlier.

The concept of checklists in BigFix Compliance Analytics version 1.8 differs from previous versions. Previously, a checklist is equivalent to a BigFix site. However, with policy reporting being introduced in this version, a checklist can now be associated with a policy view.

A policy view is based on an approach to gain compliance for PCI DSS, such as PCI DSS requirement or PCI DSS milestone. For more information about policy views, see PCI DSS policies (on page 8).

For simplicity, these checklists that are associated to policies will be referenced as *Policy Checklists* in this document.

Policy Checklists contain a collection of checks that run across multiple PCI DSS sites. These checklists provide a new way of reporting, which can help you better assess and identify the level of compliance in your organization.

PCI DSS Requirements Reporting

BigFix Compliance PCI Add-on provides additional reports to show a cumulative compliance state of your endpoints based on the PCI DSS Requirements.

The PCI DSS Requirements reports are generated based on the *Requirements and Security Assessment Procedures* document. Each requirement has a corresponding checklist.

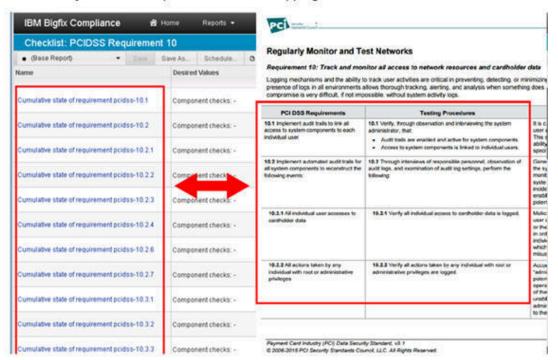


Note: PCI DSS requirements 3, 9, 11, and 12, which are process-oriented in nature, are not covered in BigFix Compliance.

These reports contain checklists that are mapped from the PCI DSS requirements and sub-requirements as seen in the following figure. The mapping was used in creating the checklists for the requirements perspective.

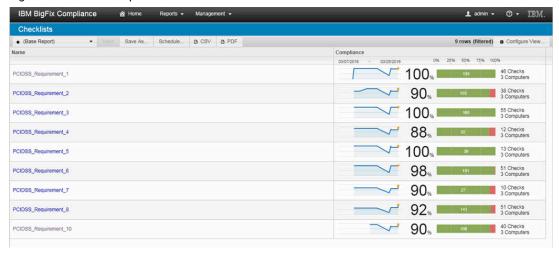
Figure 26. PCI DSS Requirement mapping

Checks List for PCI DSS Requirement 10 and mapping to PCI DSS standard



Each requirement has a corresponding checklist. To view the list of checklists, which represent the PCI DSS requirements, click **Reports > Checklists**. You can view more information about a checklist by clicking the checklist name from the Checklist view.

Figure 27. PCI DSS Requirement Checklist List



Checklist Overview

To view an overview of a specific requirement checklist, click **Reports > Checklists**. Then, select a requirement checklist: PCIDSS_Requirement_<number>.

The Overview presents a graphic representation of compliance history, computers by compliance quartile, and check results history with an overall compliance percentage shown in the top left corner of the console.

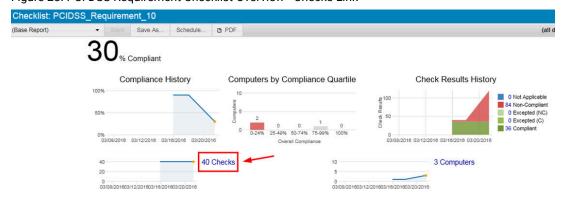
From this view, you can:

- View the list of checks by clicking on the number of checks available.
- View the list of computers by clicking on the number of computers available.
- · View the list of checks and computers based on their compliance status.

Checks List

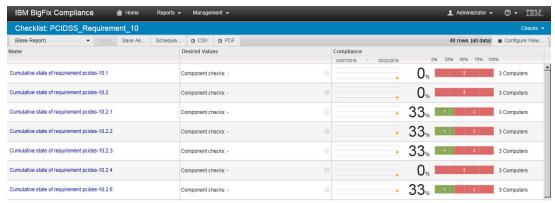
You can view the available checks in a checklist in detail by drilling down to the checks. You can do this by clicking the number of checks displayed on the Checklist Overview page.

Figure 28. PCI DSS Requirement Checklist Overview - Checks Link



This view shows a list of all checks, each in its cumulative state, for a requirement checklist. In the following figure, the cumulative state for each check for requirement 10 is displayed.

Figure 29. PCI DSS Requirement Check List

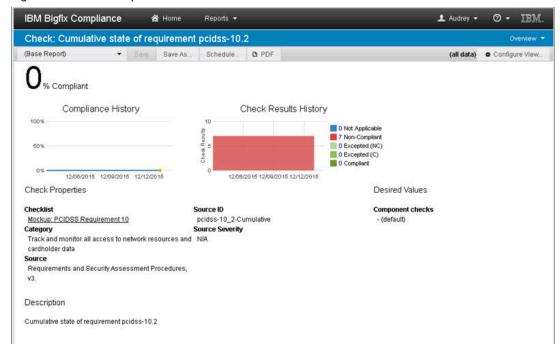


Check Overview

You can drill down to a specific check to view an overview of the cumulative check result. To do this, you can either click on a check name from the check list (as shown in the previous screenshot) or click **Reports > Checks** and select the cumulative check or click any check in the list.

This view shows a graphic representation of compliance history and check results history for a particular check, in this case, requirement 10.2.

Figure 30. PCI DSS Requirement Check Overview



List of Computers

You can view the list of computers that are relevant to a specific requirement. To view this report, click the number of computers displayed on the Checklist Overview page.

Figure 31. PCI DSS Requirement Check Overview - Computers Link



This view shows a list of all computers with additional information, such as operating system. It also shows the corresponding compliance status for each computer.

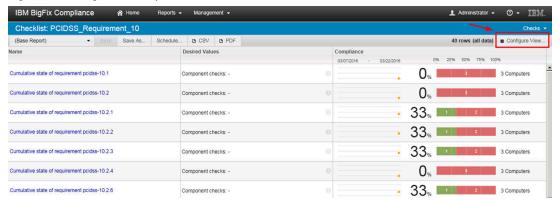
Figure 32. PCI DSS Requirement Check Overview - Computers Link



List of compliant checks and computers

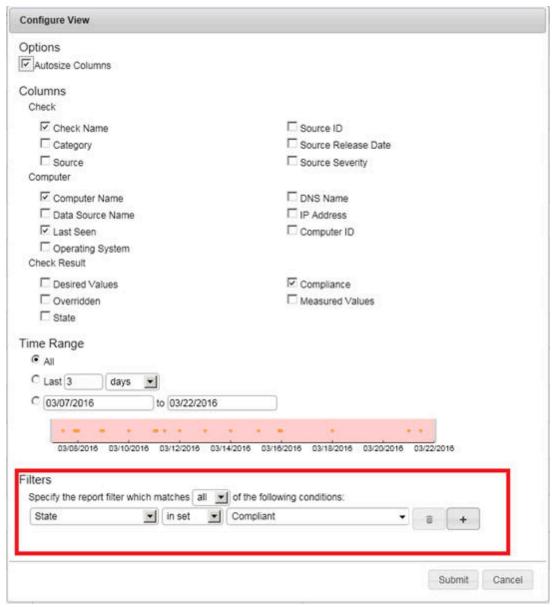
You can configure the view according to the information that you want to display by using the Configure View option.

Figure 33. Configure View Option



In this example, use Filters to specify that you want to view only the checks and computers that compliant to PCI DSS requirement 10.

Figure 34. Configure View Dialog



This view shows which computers and checks are in compliance with a particular requirement checklist, in this case, requirement 10.

IBM BigFix Compliance Checklist: PCIDSS_Requirement_10 Schedule... @ CSV @ PDF 36 rows (filtered) # Configure View Computer Name Last Seen Compliance Cumulative state of requirement pcidss-10.2.1 NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-10.2.2 NC9143127061 about an hour ago " Compliant Cumulative state of requirement poidss-10.2.3 NC9143127061 about an hour ago Cumulative state of requirement pcidss-10.2.6 NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-10.3.1 NC9143127061 about an hour ago Cumulative state of requirement pcidss-10.3.2 NC9143127061 " Compliant about an hour ago Cumulative state of requirement pcidss-10.3.3 NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-10.3.4 NC9143127061 about an hour ago Cumulative state of requirement pcidss-10.3.5 NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-10.3.6 NC9143127061 about an hour ago " Compliant Cumulative state of requirement poidss-10.4 NC9143127061 about an hour ago " Compliant " Compliant Cumulative state of requirement pcidss-10.4.1 NC9143127061 about an hour ago Cumulative state of requirement pcidss-10.4.1.a NC9143127061 about an hour ago

Figure 35. Report configured to show compliance to a specific requirement

You can also configure the view to show computers and checks that are not in compliance with a particular requirement checklist.

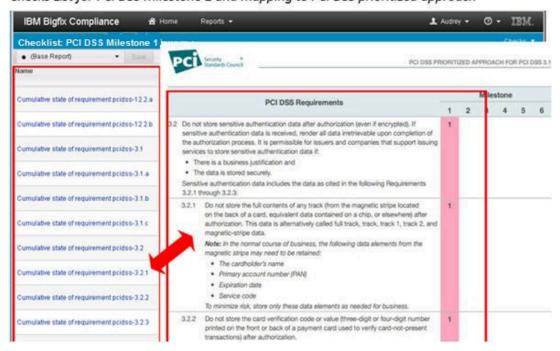
PCI DSS Milestones Reporting

BigFix Compliance PCI Add-on provides additional reports to show a cumulative compliance state of your endpoints based on the PCI DSS Milestones.

The PCI DSS Milestones reports are generated based on the *Prioritized Approach for PCI DSS* document. The mapping was used in creating the checklists for the prioritized approach.

Figure 36. PCI DSS Milestone mapping

Checks List for PCI DSS Milestone 1 and mapping to PCI DSS prioritized approach

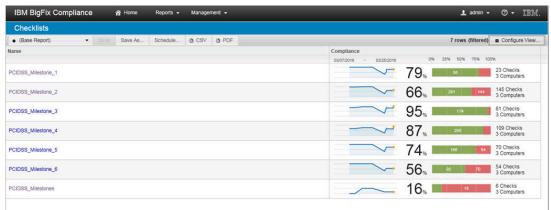


Each milestone has a corresponding checklist and is intended to provide a roadmap to address risks in a prioritized order. Milestones enable merchants to demonstrate progress on compliance process.

To view the list of checklists, click **Reports > Checklists**. There are 7 milestone checklists in total, including the milestone summary checklist.

You can view more information about a checklist by clicking the checklist name from the Checklist view.

Figure 37. PCI DSS Milestone Checklist List



Milestones Summary Checklist Overview

To view the Milestones Summary checklist, click **Reports > Checklists**. Then, select **PCIDSS_Milestones**.

This view shows a summary of all six milestones in a graphic representation of compliance history, computers by compliance quartile, and check results history with an overall compliance percentage shown in the top left corner of the console.

From this view, you can:

- View the list of checks by clicking on the number of checks available.
- View the list of computers by clicking on the number of computers available.
- · View the list of checks and computers based on their compliance status.

Figure 38. PCI DSS Milestone Summary Checklist Overview



Checklist Overview

To view an overview of a specific milestone checklist, click **Reports > Checklists**. Then, select a milestone: PCIDSS_Milestone_<*number>*.

The Overview presents a graphic representation of compliance history, computers by compliance quartile, and check results history with an overall compliance percentage shown in the top left corner of the console.

From this view, you can:

- View the list of checks by clicking on the number of checks available.
- View the list of computers by clicking on the number of computers available.
- View the list of checks and computers based on their compliance status.

In this example, you can see the overview of the PCIDSS_Milestone_1 checklist.

Figure 39. PCI DSS Milestone Checklist Overview

Checks List

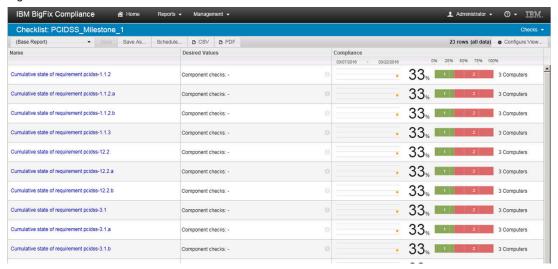
You can view the available checks in a checklist in detail by drilling down to the checks. You can do this by clicking the number of checks displayed on the Checklist Overview page.

Figure 40. PCI DSS Milestone Checklist Overview - Checks Link



The Checks List report shows the list of checks in the given scope together with attributes of each check and the overall, historical aggregate compliance results (the aggregate of all visible computer's pass and fail score) of each check.

Figure 41. PCI DSS Milestone Check List



List of Computers

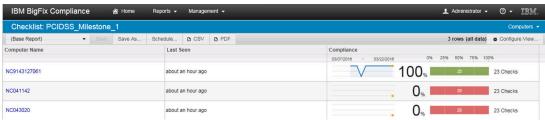
You can view the list of computers that are relevant to a specific milestone. To view this report, click the number of computers displayed on the Checklist Overview page.

Figure 42. PCI DSS Milestone Check Overview - Computers Link



This view lists all the computers that are applicable to a particular milestone checklist, in this case, milestone 1.

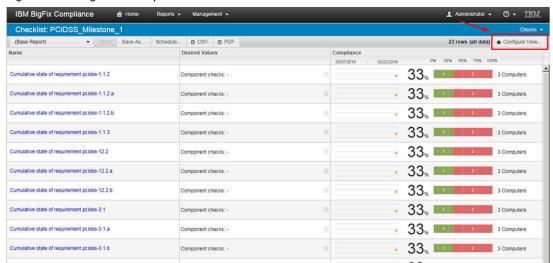
Figure 43. PCI DSS Milestone Check Overview - Computers Link



List of compliant checks and computers

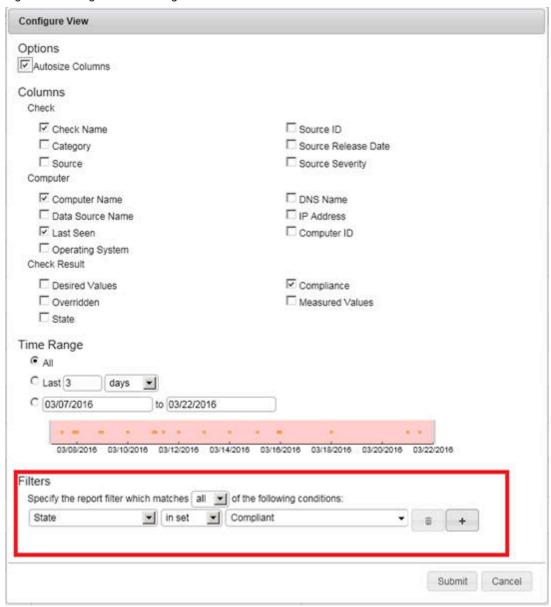
You can configure the view according to what information you want to display by using the Configure View option.

Figure 44. Configure View Option



In this example, use Filters to specify that you want to view only the checks and computers that compliant to PCI DSS milestone 1.

Figure 45. Configure View Dialog



This view shows which computers and checks are in compliance with a particular milestone checklist, in this case, milestone 1.

IBM BigFix Compliance ☆ Home Reports ▼ Management ▼ Checklist: PCIDSS_Milestone_1 Schedule... D CSV D PDF 23 rows (filtered) & Confid (Base Report) Computer Name Last Seen Compliance Cumulative state of requirement poidss-1.1.2 NC9143127061 about an hour ago Cumulative state of requirement pcidss-1.1.2.a NC9143127061 about an hour ago Cumulative state of requirement pcidss-1.1.2.b NC9143127061 about an hour ago Cumulative state of requirement pcidss-1.1.3 NC9143127061 about an hour ago Cumulative state of requirement pcidss-12.2 NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-12.2.a NC9143127061 about an hour ago Cumulative state of requirement poidss-12.2.b NC9143127061 about an hour ago " Compliant Cumulative state of requirement pcidss-3.1 NC9143127061 about an hour ago

Figure 46. Report configured to show compliance to a specific requirement

You can also configure the view to show computers and checks that are not in compliance with a particular milestone checklist.

about an hour ago

Saving customized reports

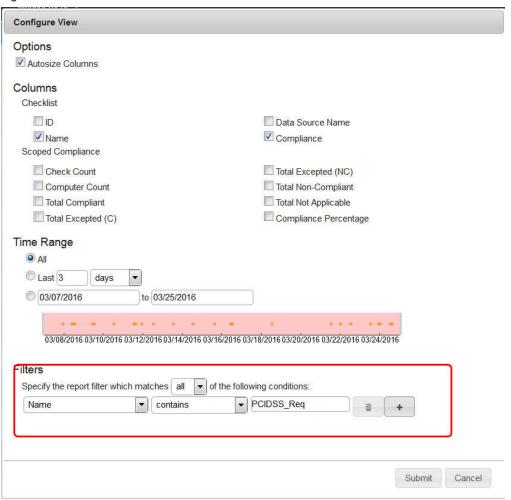
Cumulative state of requirement poidss-3.1 a

Use the Saved Reports feature to retain a specific format for the report without creating the same settings for future use. The displayed columns and filters you used to customize the view are also saved.

- 1. Navigate to the report that you want to save.
- 2. Use the Configure View option to set the information that you want to show in the report.
- 3. Add a filter to specify a specific condition for the report view and click Submit.

NC9143127061

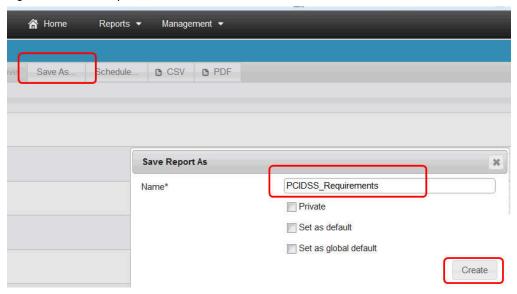
Figure 47. Add filters



4. To save the report, click Save As.

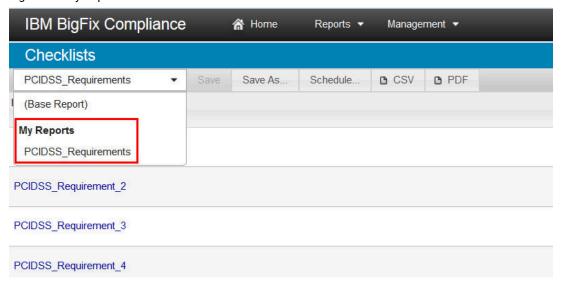
5. Enter a name to identify the report to be saved and click Create.

Figure 48. Save as report



The saved report becomes available in the Saved Reports list report and visible in the drop-down box on the left side of the sub-navigation area when viewing that report type.

Figure 49. My Reports



Creating exceptions

You can file for the endpoint to be excluded from the PCI DSS checks if some endpoints require compliance to older policies or standards.

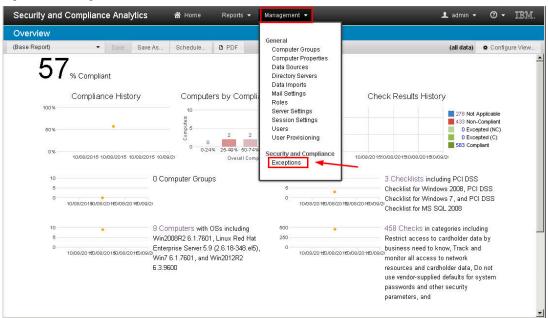
Security and Compliance Analytics (SCA), which is now known as BigFix Compliance Analytics, provides a separate interface for Exception Management where you can set exceptions to exclude data from your compliance reports.

Figure 50. Exceptions page



To access the Exceptions interface, click **Management > Exceptions**.

Figure 51. Management menu



You can create and edit exceptions for checks, computers, computer groups, and checklists with or without an expiration date.

Appendix A. Resources

You can find more information about Security Configuration Management and PCI DSS in the following resources.

Each document opens in a new window.

- PCI DSS Requirements and Security Assessment Procedures
- PCI DSS Release Notes
- Security Configuration Management User's Guide
- Security and Compliance Analytics Setup Guide
- Security and Compliance developerWorks wiki

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