BigFix Insights for Vulnerability Remediation
Implementation Guide

Special notice

Before using this information and the product it supports, read the information in Notices.

Edition notice

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

Contents

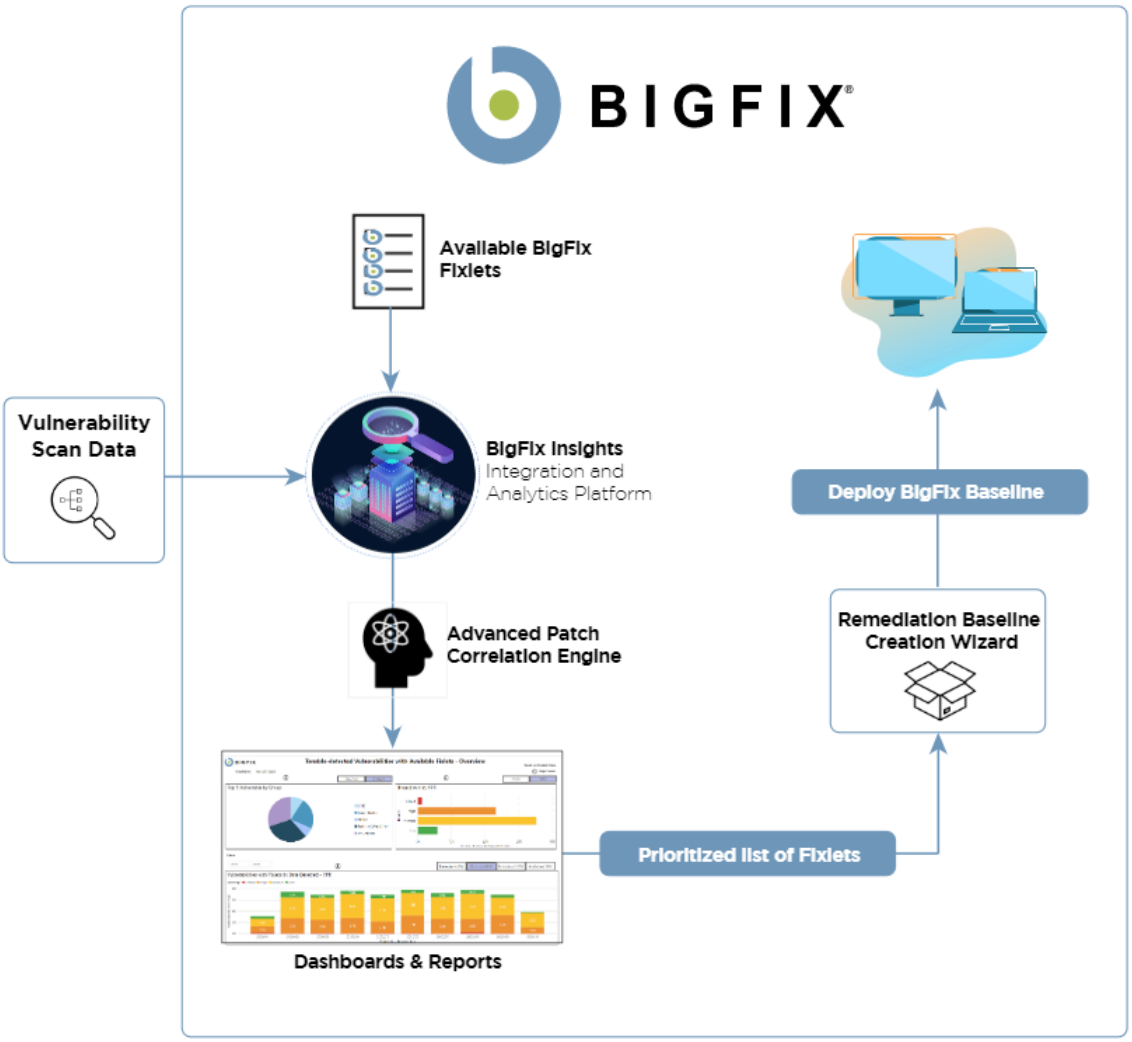
Chapter 1. BigFix Insights for Vulnerability Remediation

Use this section to become familiar with BigFix Insights for Vulnerability Remediation infrastructure and key concepts necessary to understand how it works.

BigFix Insights for Vulnerability Remediation integrates BigFix with sources of vulnerability data. The purpose is to guide BigFix users on how to apply the best patch and configuration settings to remediate discovered vulnerabilities, and thus reduce risk and improve security.

BigFix Insights for Vulnerability Remediation, uses advanced correlation algorithms to aggregate and process the vulnerability data with information from BigFix to drive analytics reports. The output of the analytics facilitates remediation through the Baseline Creation Wizard by recommending the latest available patches for the discovered vulnerabilities.

Figure 1. Architecture overview of BigFix Insights for Vulnerability Remediation


BIGFIX
Available BigFix Fixlets
Vulnerability Scan Data
BigFix Insights Integration and Analytics Platform
Deploy BigFix Baseline
Advanced Patch Correlation Engine
Remediation Baseline Creation Wizard
Prioritized list of Fixlets
Dashboards & Reports

Chapter 2. System requirements

Learn more about the prerequisites and system requirements for BigFix Insights for Vulnerability Remediation (IVR) service.

Table 1. Prerequisites and system requirements for IVR service

Hardware requirements	
CPU	minimum 2 cores (recommended 4)
RAM	On top of host OS requirements: • < 1M Findings from Vulnerability Management Product = 16GB • < 2M Findings from Vulnerability Management Product = 32GB • < 3M Findings from Vulnerability Management Product = 48GB • < 4M Findings from Vulnerability Management Product = 64GB
Disc space	• < 1M Findings from Vulnerability Management Product = 4GB - 8GB preferred • < 2M Findings from Vulnerability Management Product = 8GB - 12GB preferred • < 3M Findings from Vulnerability Management Product = 12GB - 16GB preferred • < 4M Findings from Vulnerability Management Product = 16GB - 20GB preferred

Table 1. Prerequisites and system requirements for IVR service (continued)

Execution Time	The overall run time of data synchronization and processing depends on: • CPU Speed • Number of findings • Number of assets in insights • Number of patch sites loaded within the BFE environment • API latency • Conflicting workloads on IVR machine
Software requirements	
Prerequisites	• Microsoft VC++ Redistributable package 2012 https://www.microsoft.com/en-in/download/details.aspx?id=30679 • Microsoft® ODBC Driver 17 for SQL Server® https://www.microsoft.com/en-us/download/details.aspx?id=56567
Operating system	• Microsoft Windows 2016 • Microsoft Windows 2019
Supported BigFix versions	• Windows - based BigFix Server, Version 10 **Note:** BigFix Insights for Vulnerability Remediation

Table 1. Prerequisites and system requirements for IVR service (continued)

	does not currently support non-Windows-based BigFix Server environments.
BigFix Component Requirements	• BigFix Insights WebUI App (v6) (minimum)
BigFix License Requirements	• BigFix Lifecycle • BigFix Compliance
Supported Vulnerability Management Platforms	• Qualys VMDR v2 REST API: https://www.qualys.com/docs/qualys-api-vmpc-user-guide.pdf • Tenable.SC versions from 5.17 up to 5.20 • Tenable.IO
BI tool	• Power BI Desktop/Server, 2021 + (Rec. May 2021) **Note:** Microsoft offers two distinct products called Power BI desktop. Use the one that is optimized for Power BI Report Server: https://www.microsoft-.com/en-us/download/details.aspx?id=56723 • Tableau Desktop/Server, 2020.4 +

Table 1. Prerequisites and system requirements for IVR service (continued)

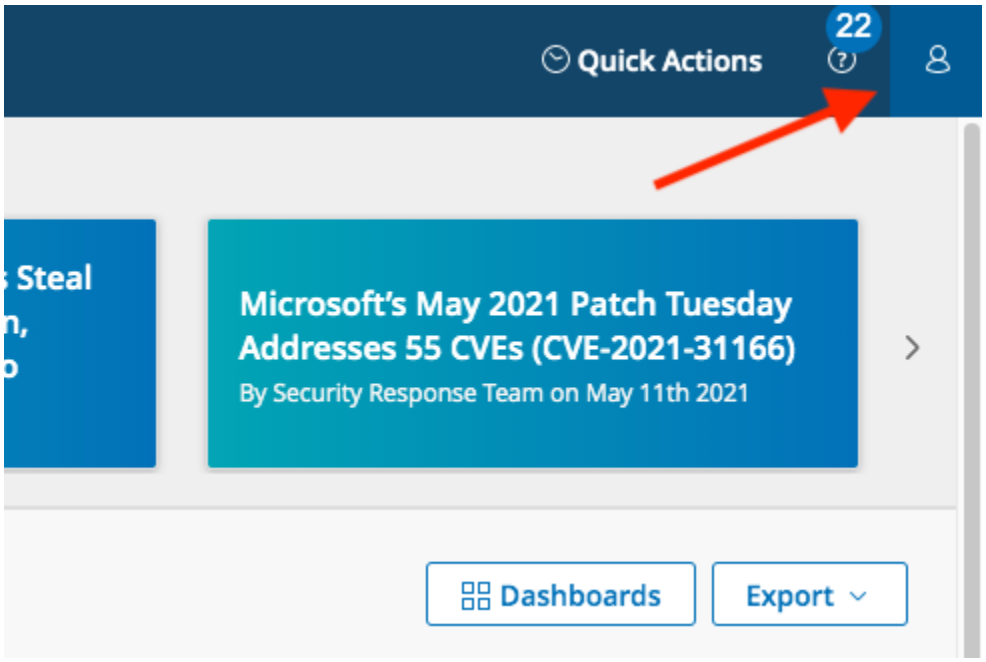
Network requirements	• Connectivity to Vulnerability Management API Server URL (port 443 by default) • Connectivity to BigFix Insights SQL database (port 1433 by default) **Note:** IVR now supports proxy-based connectivity. Refer to the link for more information.

API requirements for Tenable.io

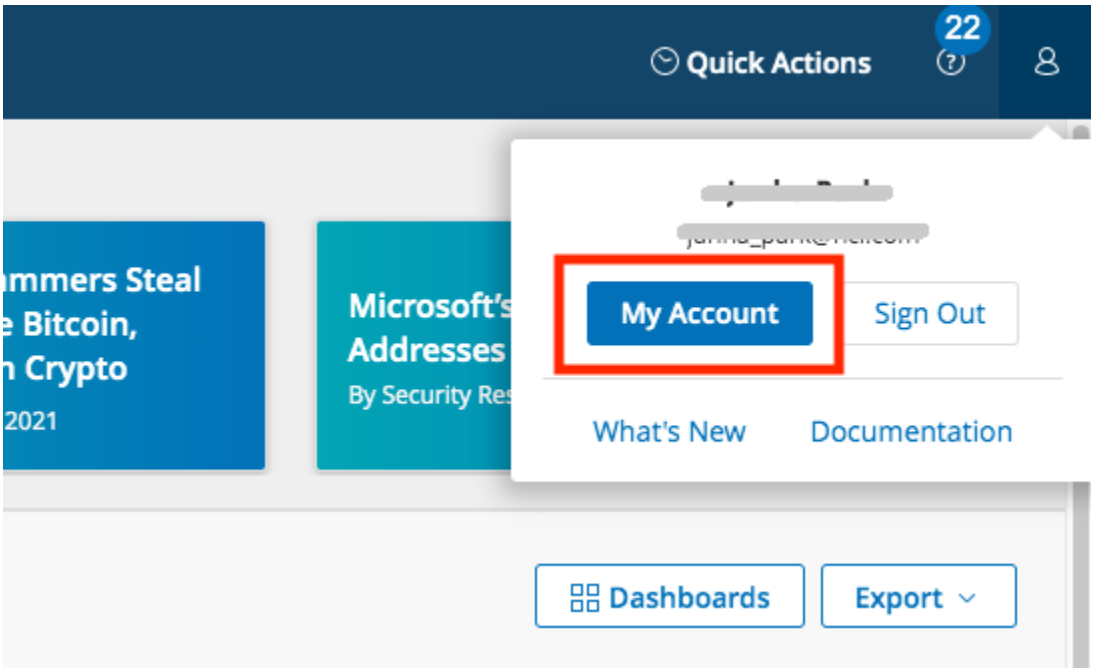
It is required to use **Administrator** user role within Tenable to enable the generation of API keys that are used by IVR to maintain the interface with Tenable.

To generate User's API keys do the following:

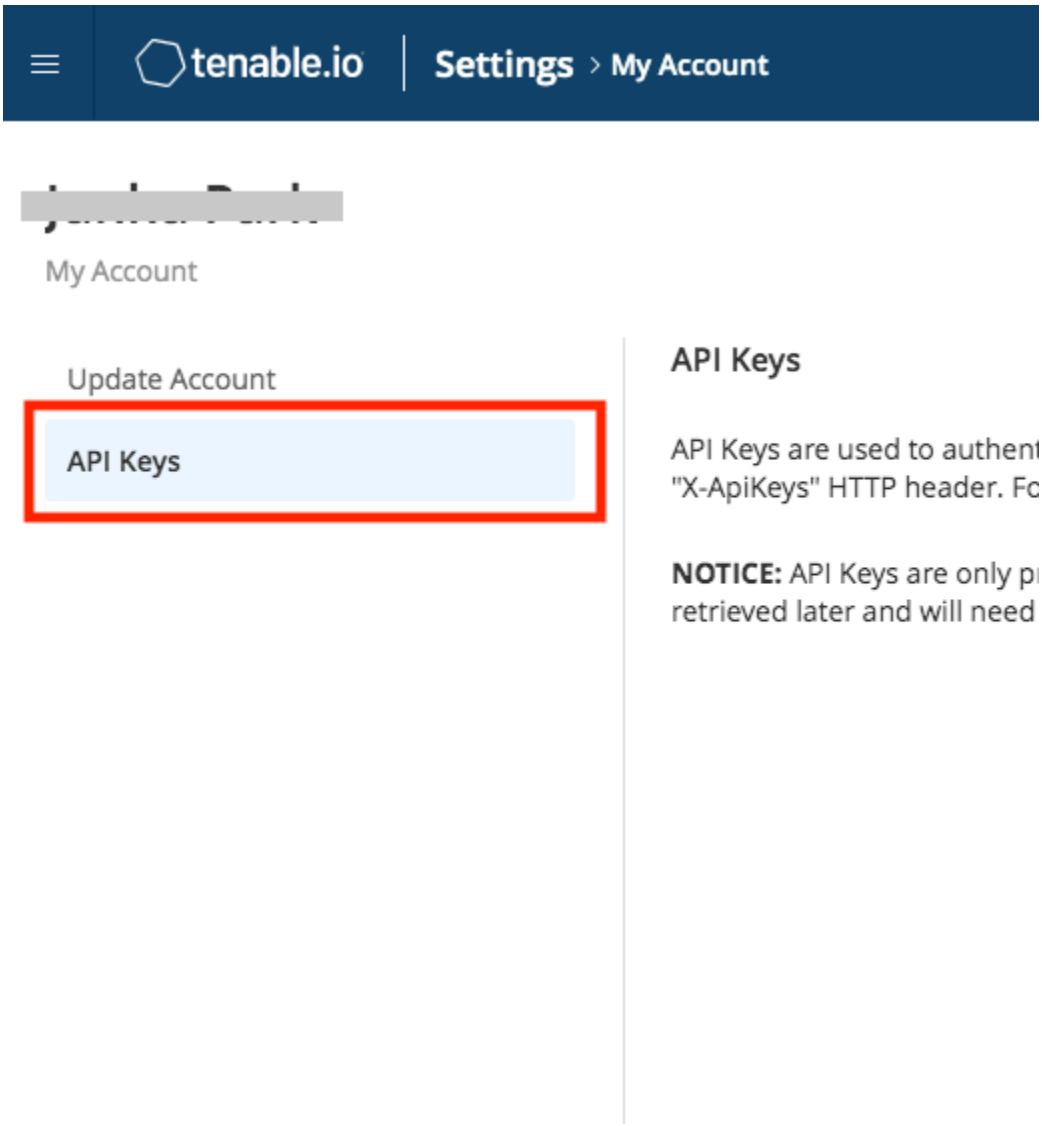
In the tenable.io web user interface, click the button on the top right corner of the header.



Click **My account** button. The user account menu appears.

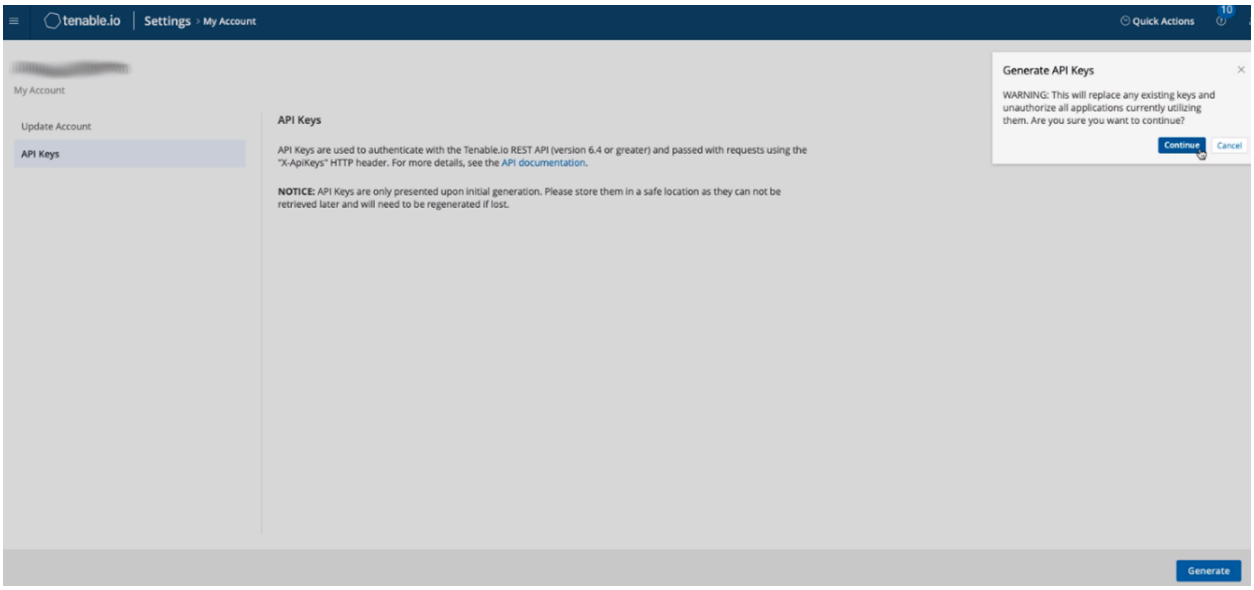


Select **API Keys** from the left-hand navigation.

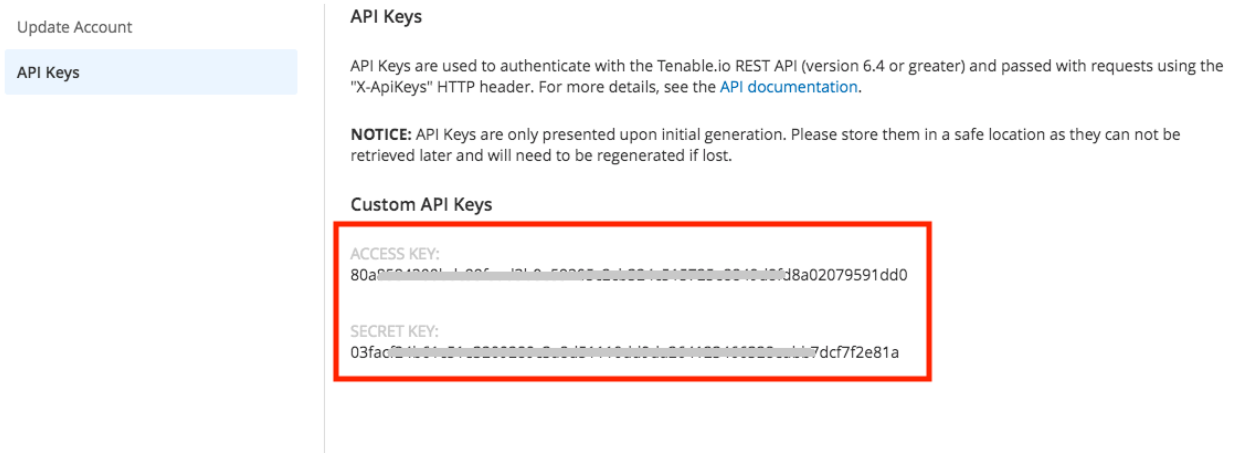


Click the **Generate** button in the lower right part of the browser.

Acknowledge the warning by clicking **Continue** in the pop-up box.



Tenable.io generates new access key and secret key. Copy the two generated keys and paste into the IVR configuration page to enable the interface. **Be sure to copy access and secret keys to a safe location as keys are displayed only once**. After the tab is closed, API keys cannot be retrieved from Tenable.io.



Refer to this page for more information about User Roles and Permissions:https://docs.tenable.com/tenableio/Content/Settings/UserRoles.htm

Once API keys are generated, you can validate API credentials by using below curl commands:

1. Get Vuln Export UUID:

   ```
   curl --request POST --url https://cloud.tenable.com/vulns/export
   --header "Accept: application/json" --header "Content-Type:
   application/json" --header "X-ApiKeys: accessKey=redactedaccesskey;
   secretKey=redactedsecretkey"
   ```

2. Get Vuln Export Status for given UUID:

   ```
   curl --request GET --url https://cloud.tenable.com/vulns/
   export/21a70c98-8e8d-4b64-b7e0-4c57a245126f/status --header "Accept:
   application/json" --header "Content-Type: application/json" --header "X-
   ApiKeys: accessKey=redactedaccesskey; secretKey=redactedsecretkey"
   ```

3. Get Chunk 1 of vuln data for given UUID:

   ```
   curl --request GET --url https://cloud.tenable.com/vulns/
   export/21a70c98-8e8d-4b64-b7e0-4c57a245126f/chunks/1 --
   header "Accept: application/octet-stream" --header "X-ApiKeys:
   accessKey=redactedaccesskey; secretKey=redactedsecretkey"
   ```

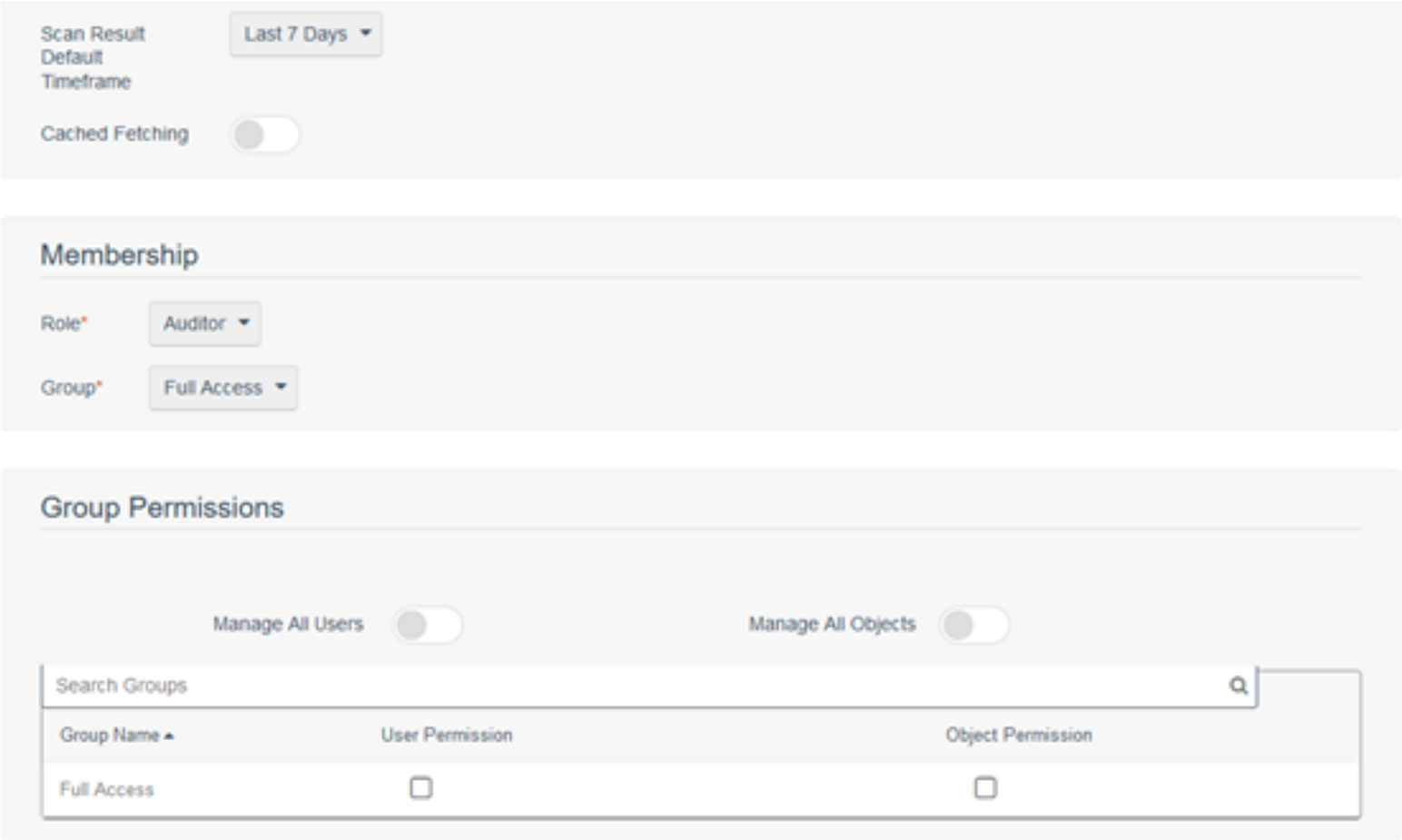
   In each example above, replace ‘redactedaccesskey’ and ‘redactedsecretkey’ with the same API keys/credentials as those being used for the integration. Also, for API calls 2 and 3, replace the example UUID in the request URL (21a70c98-8e8d-4b64-b7e0-4c57a245126f) with the UUID value returned from API call 1.

API requirements for Tenable.sc

The IVR server requires a Tenable user account. A user leveraged to Tenable.sc IVR adapter needs compatible machines within the environment.

The Tenable account utilized for IVR should be assigned the default full access group, and auditor role permissions. This provides the account access needed to complete the dataflow. Additionally, the user can be defined using custom access permissions to limit the scope of assets retrieved by IVR. A group within Tenable can be limited by both the viewable hosts and the repositories. In general, the role of auditor should be leveraged as well, to follow the principle of least privileged. The IVR dataflow retrieves information only when the account has granted visibility to receive.

Here is how the “Create User” page, Membership section should look as the new user is created:



Tenable impact statement

IVR uses the pytenable library (developed by Tenable). IVR leverages a default batch size of 1000, which is conservative and is prescribed by Tenable. With the default settings, the Tenable.sc server should not see a noticeable impact when the IVR adapter is running.

API requirements for Qualys

Qulays API requirements

The Qualys API enforces limits on the API calls a customer can make based on their subscription settings. The limits apply to the use of all Qualys APIs except “session” V2 API

(session login/logout). Default API control settings are provided by the service. Note these settings may be customized per subscription by Qualys Support.

For more details, refer to the link: https://www.qualys.com/docs/qualys-api-limits.pdf.

To estimate the number of API calls, use the below formula:

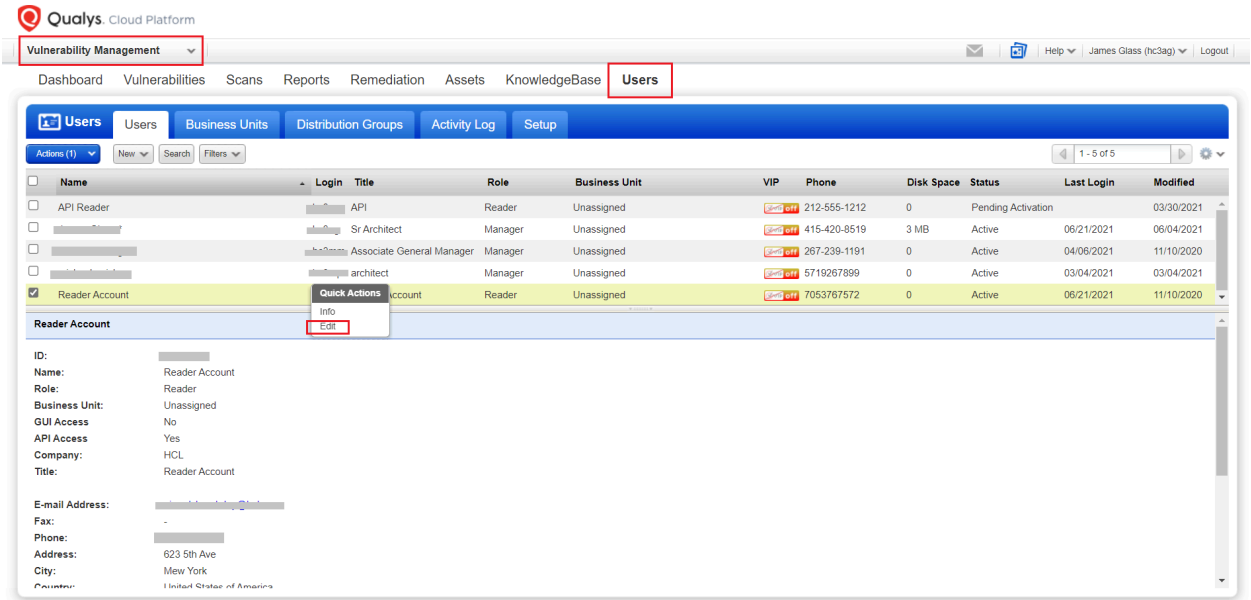
```
Total number of API calls = ( number of devices / batch size ) + (number of
 unique vulnerabilities / 350)
```

where;

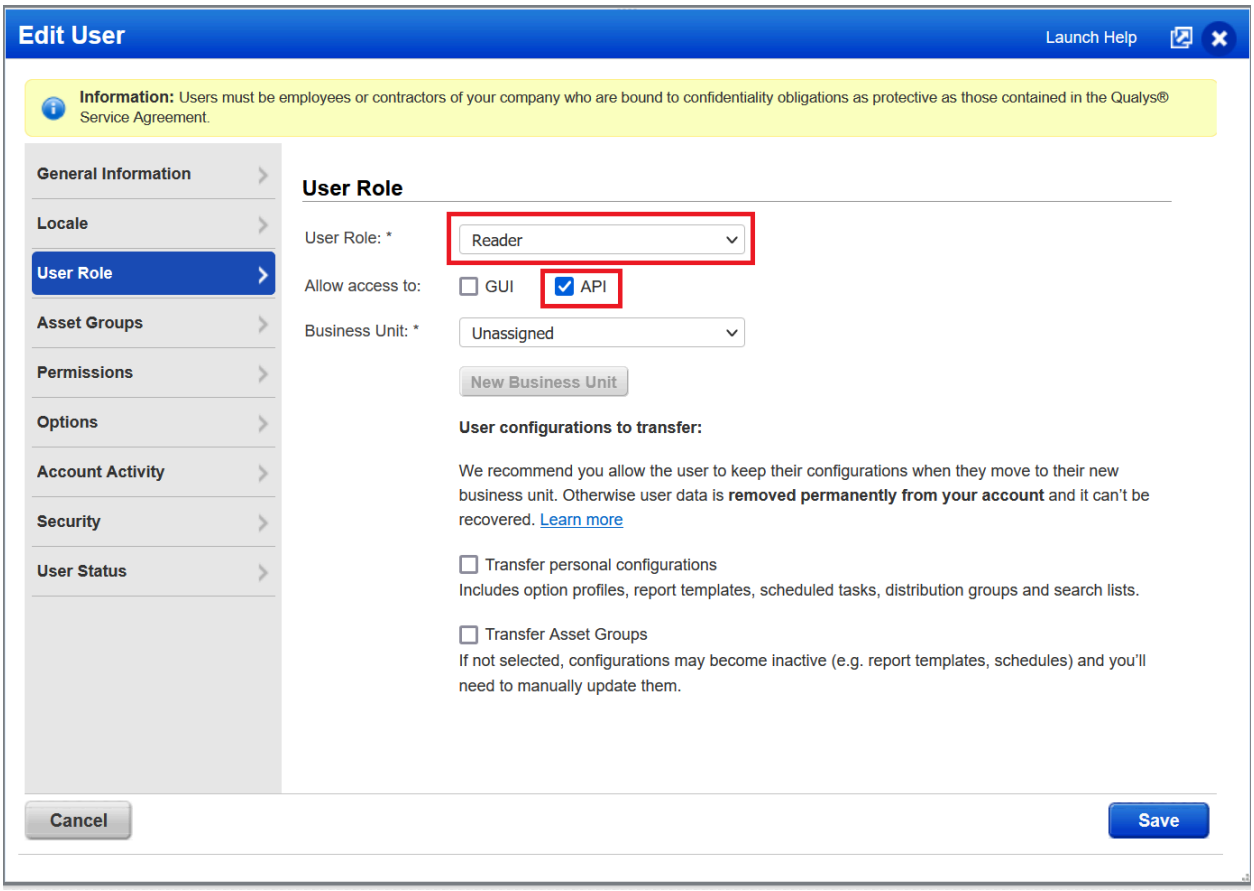
- `batch size` - configurable parameter that describes the maximum number of devices which can be fetched in a single API call
- `number of devices` - number of available devices in the scanned network
- `number of unique vulnerabilities` - number of unique vulnerabilities discovered in the scanned network
- `350` - maximum number of vulnerabilities that can be fetched in a single API call into the Qualys Knowledge Base API.

Qualys API User requirements

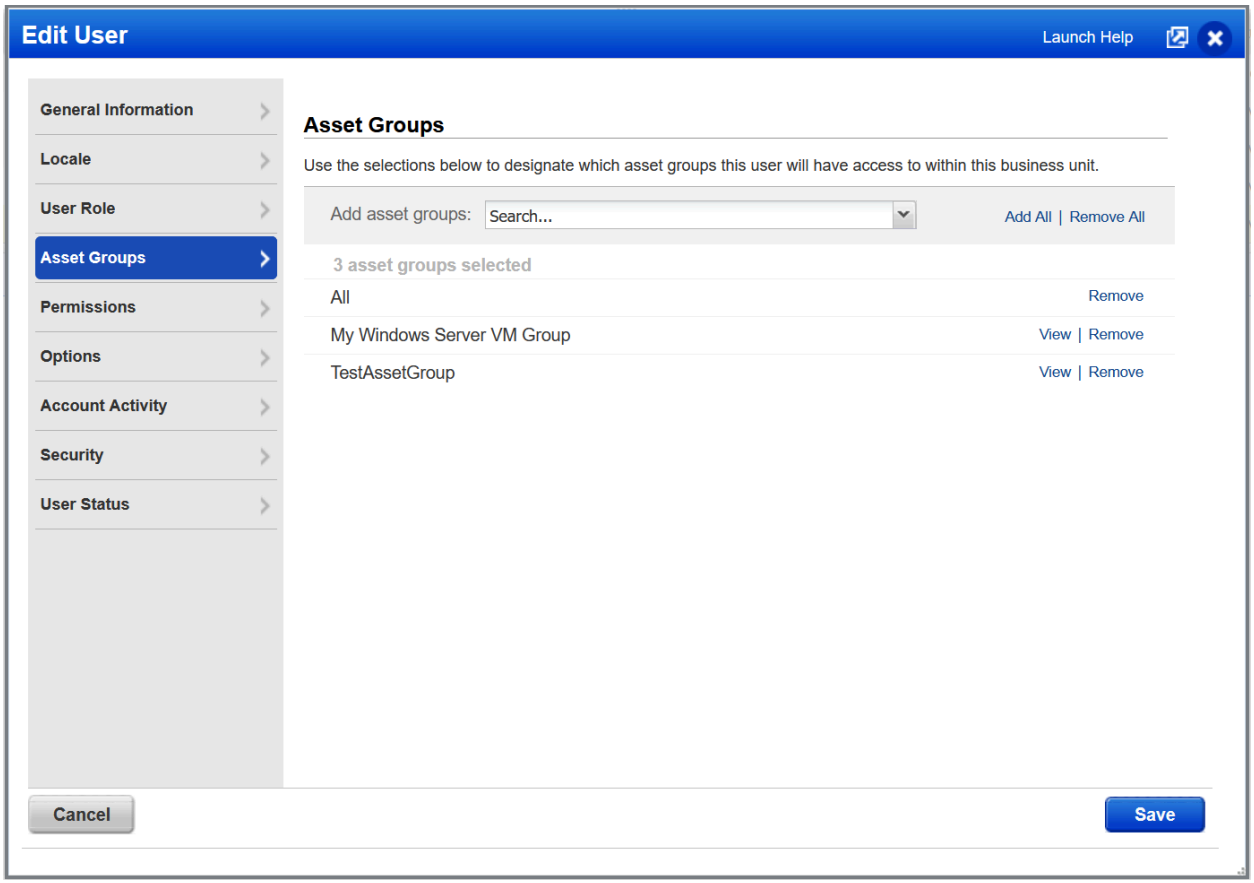
It is recommended to use 'Reader' user role. To edit user account, select **Users** tab in the **Vulnerability Management** dashboard. Hover the cursor over the **Login** and click **Edit**.



In the **User Role** tab, select **Reader** as a user role and **Allow access to API**.

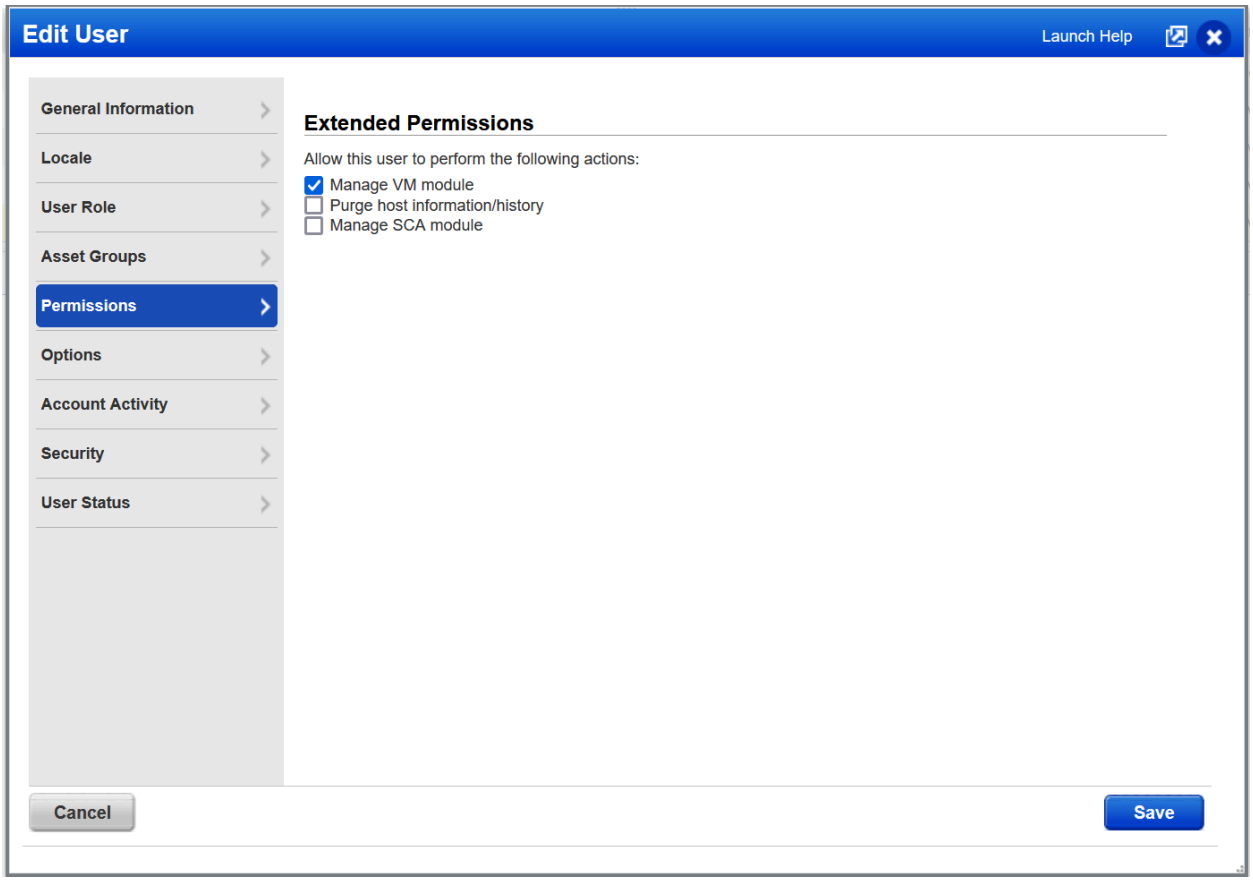


In the **Asset Groups** tab you can select asset groups that you wish to have access to.



For more information on how to assign asset groups to the user, refer to the link.

In the **Permissions** tab select **Manage VM module**.



Refer to the link to find more information on User roles and permissions.

Chapter 3. Deployment and configuration

This module provides the steps to deploy and configure the BigFix Insights for Vulnerability Remediation solution for:

BigFix Insights for Vulnerability Remediation (IVR) supports the integration with Tenable.IO and Tenable.SC.

There are wo types of scans supported by IVR:

- Asset discovery scan
- Assessment scan

The discovery scans are performed to get an accurate picture of the assets on the network and assessment scans to understand the vulnerabilities on the retrieved assets.

Since BigFix IVR leverages on Tenable API, BigFix IVR supports only the scans whose data can be retrieved by Tenable API.

Tenable.io

Tenable.sc

Qualys

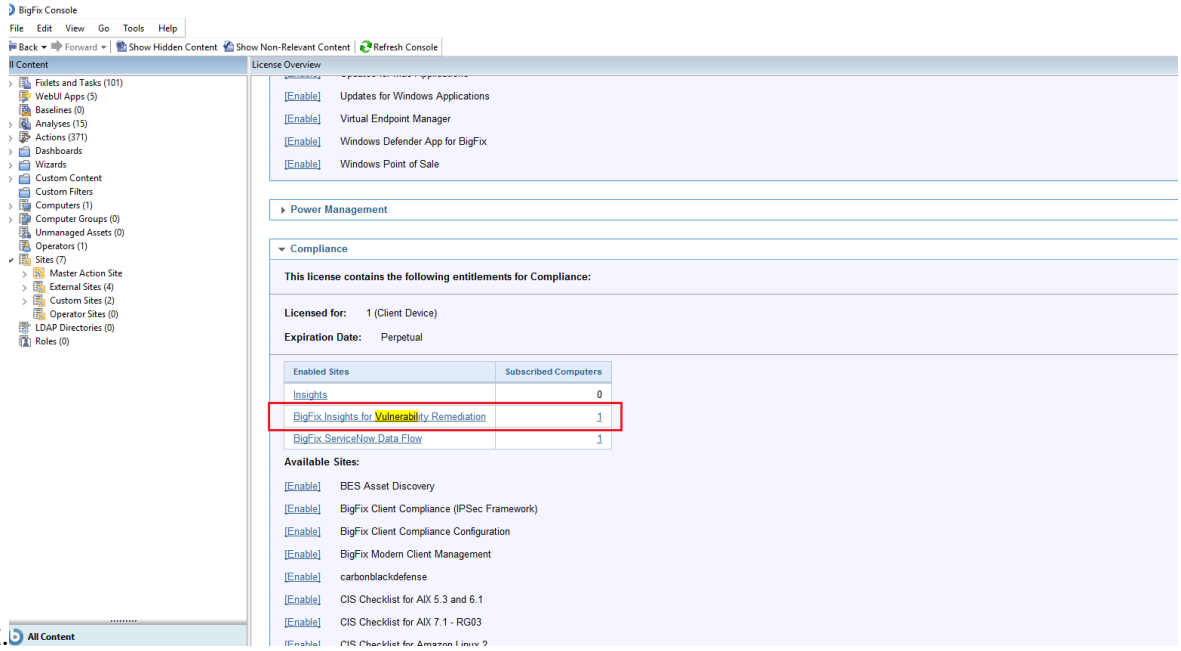
Deployment and configuration for Tenable.io

This module provides the steps to deploy and configure the BigFix Insights for Vulnerability Remediation solution.

To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:

1. Enable a content site.

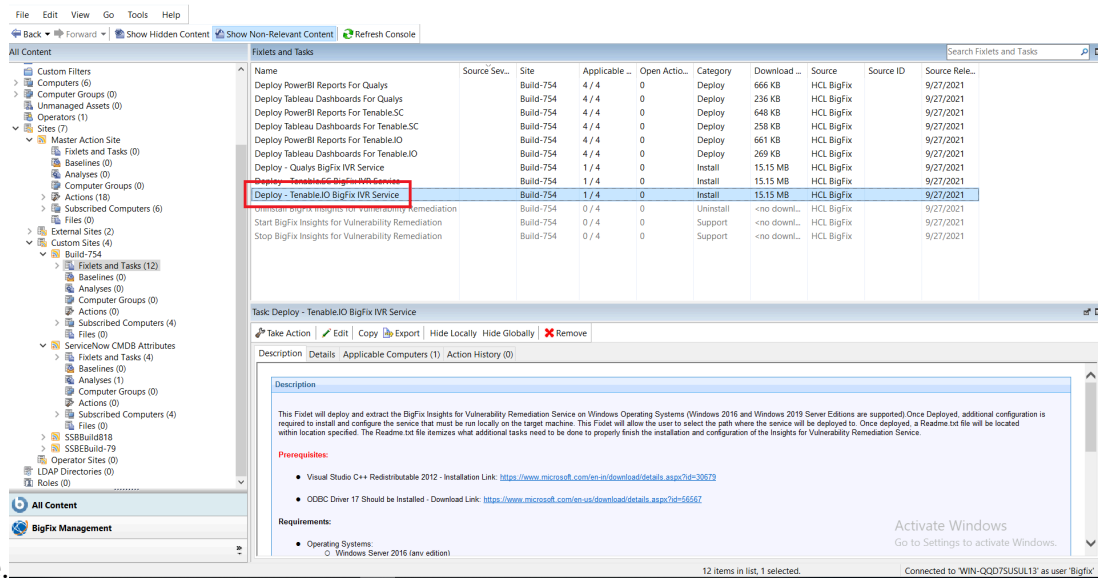
   Navigate to BigFix License Overview Dashboard. In **Compliance/Lifecycle** panel, click **Enable BigFix Insights for Vulnerability Remediation** Fixlet to gather the required content.



   Note: Please refer to the following link for more information (steps 4-10): https://help.hcltechsw.com/bigfix/10.0/platform/Platform/Installation/post_installation_steps.html

2. Deploy the solution to the target server.

a. Click **Deploy - Tenable.IO BigFix IVR Service** Fixlet in the **BigFix Insights for Vulnerability Remediation** external site.



b. Fill the **Installation Location** field in the Description tab and deploy the Fixlet.

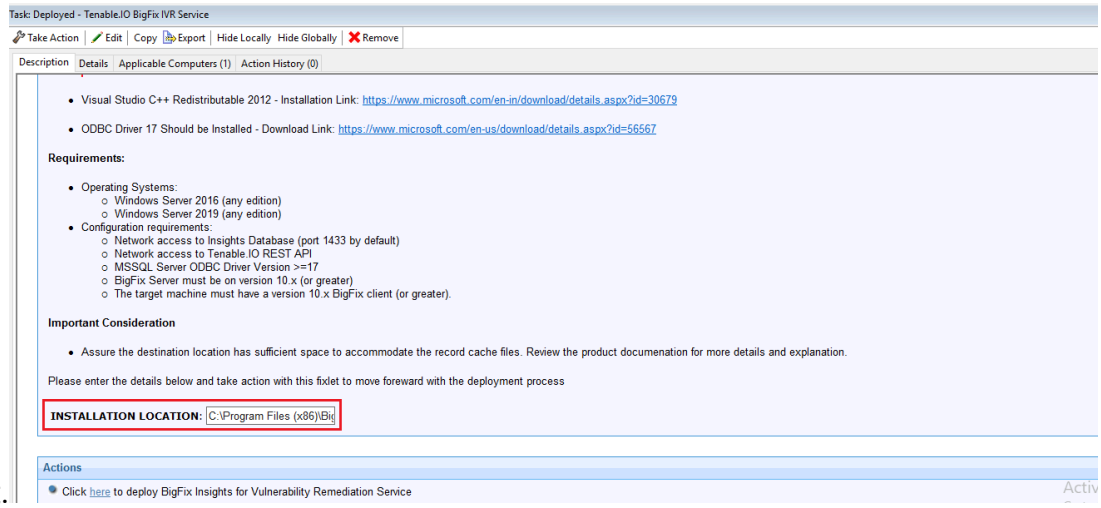


Table 2.

Field	Tenable
`Installation Location`	Full pathname to desired installation location of the BigFix Insights for Vulnerability Remediation Ser-

Field	Tenable
	vice. Ex: `C:\Program Files\HCL\BigFix Insights for Vulnerability Remediation`

Note: Please note the following pre-requisites:

- Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/en-in/download/details.aspx?id=30679
- Microsoft ODBC Driver 17 for SQL Server: https://www.microsoft.com/en-us/download/details.aspx?id=56567
  - https://www.microsoft.com/en-us/download/details.aspx?id=56567

Warning: Do not deploy the BigFix Insights for Vulnerability Remediation Service to more than 1 machine.

Warning: Do not have more than 1 dataflow per IVR Service.

3. Run installation command.

   Purpose: This step installs the BFIVR (BigFix Insights for Vulnerability Remediation) executable as a windows service.

   a. Navigate to the installation directory and run `BFIVR.exe --Install` command.
      When successful, the message *'Installing service BFIVR. Service installed.'* appears in the command prompt.

      Important: The command-line parameters for BFIVR.exe are case-sensitive.

4. Define the target for BigFix Insights.

   Purpose: This step defines how the dataflow targets the Insights database.

a. Note down of the Insights Server IP/hostname/fqdn and the database name.

b. Create a connection string for the BigFix Insights database.
With the example below, modify the portions in italics denoting the target and databse. Ex: DRIVER={ODBC Driver 17 for SQL Server};SERVER=127.0.0.1;DATABASE=BFInsights

c. Navigate to the installation directory and run `BFIVR.exe --UpdateTargetURL BigfixINSIGHT "<Your_ODBC_String>"` comannd.

Important: The ODBC string must be written within double quotes.

5. Define the target for the scanner.

Purpose: This step defines how the dataflow targets the scanner URL.

a. Take a note of the Tenable.io API scanner IP and port.

b. Navigate to the installation directory and run the following command:
`BFIVR.exe --UpdateTargetURL TenableIO https://<Server>:<Port>`

Important: The command-line parameters for BFIVR.exe are case-sensitive.

Example: If the IP of the Tenable Server is 192.168.0.133 and the target port is the default https port, the command looks as: `C:\BFIVR\BFIVR.exe --UpdateTargetURL TenableIO https://192.168.0.133`. To confirm the command, verify the `DataflowsConfig.xml` file in the installation path. The file should now reference the parameters that you have defined as connection string for the Tenable io datasource.

6. Set the credentials for Insights.

Purpose: This step defines how the dataflow authenticates with the Big Fix Insights database for standard ETL (Expand, Transform, Load) operations.

a. Obtain the credentials for your BigFix Insigts database.

b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials BigfixINSIGHT` command.

c. Enter a username/access key and password/secret key, as prompted.

Note: The Insights_User must have access to the BigFix Insights database.

Note: When using special characters in password, make sure to enclose the password with double quotes.

Important: The command-line parameters for BFIVR.exe are case-sensitive.

When successful, the message 'The credentials provided are encrypted successfully!' appears in the command prompt.

7. Set the credentials for the scanner.

Purpose: This step defines how the dataflow authenticates with the Tenable.io API scanner.

a. Obtain the credentials for your Tenable.io API server.

b. Navigate to the installation directory and run the command: `\BFIVR.exe --ProvideCredentials TenableIO`

Example: When successful, the message *'The credentials provided are encrypted successfully!'* appears in the command prompt.

c. Enter a username/access key and password/secret key, as prompted.

Note: When using special characters in password, make sure to enclose the password with double quotes.

Important: The command-line parameters for BFIVR.exe are case-sensitive.

Refer to the link to see how to obtain API keys for Tenable.io.

8. Initialize the IVR schema on Insights.

   Purpose: This step initializes the IVR Schema within BFInsights.

   a. Obtain the credentials for your BigFix Insights database.

   b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials --InitializeSchemas` command.

   c. Enter a username/access key and password/secret key, as prompted.

   Note: The account should have DBO rights to the database BigFix Insights DB.

   Note: When using special characters in password, make sure to enclose the password with double quotes.

   When successful, the message *'Schema Initialized Successfully!'* appears in the command prompt.

9. Validate the configuration.

   Purpose: This step verifies the configuration provided from the previous steps.

a. Navigate to the installation directory and run `\BFIVR.exe --ValidateConfiguration` command.
   When successful, the message *'Configuration verified successfully!'* appears in the command prompt.

10. Post - installation steps.

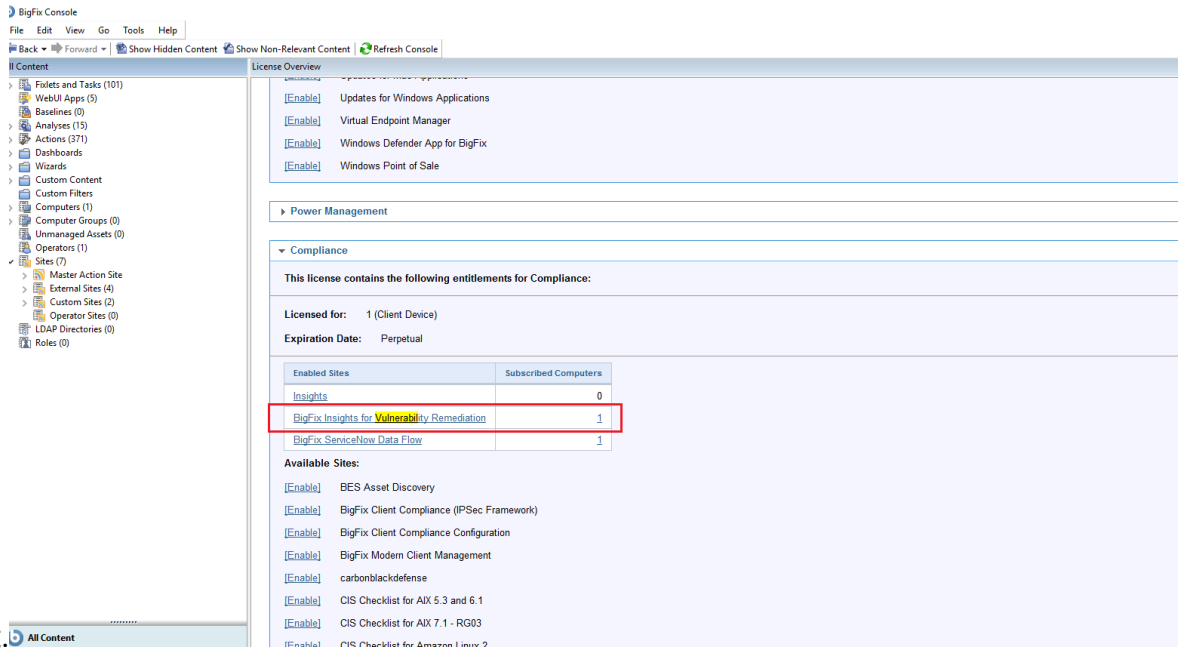
    After you install the product, perform the steps provided in the link to verify that the installation run successfully: Post - installation steps.

Deployment and configuration for Tenable.sc

This module provides the steps to deploy and configure the BigFix Insights for Vulnerability Remediation solution.

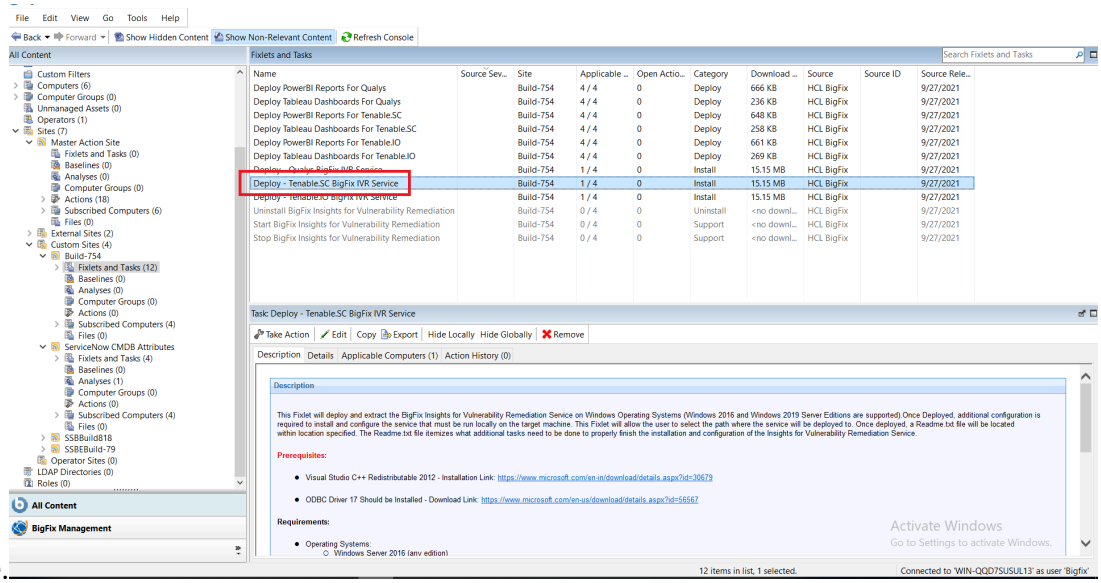
To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:

1. Enable a content site.
   Navigate to BigFix License Overview Dashboard. In **Compliance/Lifecycle** panel, click **Enable BigFix Insights for Vulnerability Remediation** Fixlet to gather the required content.



Note: Please refer to the following link for more information (steps 4-10): https://help.hcltechsw.com/bigfix/10.0/platform/Platform/Installation/post_installation_steps.html

2. Deploy the solution to the target server.
   a. Click **Deploy - Tenable.SC BigFix IVR Service** Fixlet in the **BigFix Insights for Vulnerability Remediation** external site.



   b. Fill the **Installation Location** field in the Description tab and deploy the Fixlet.

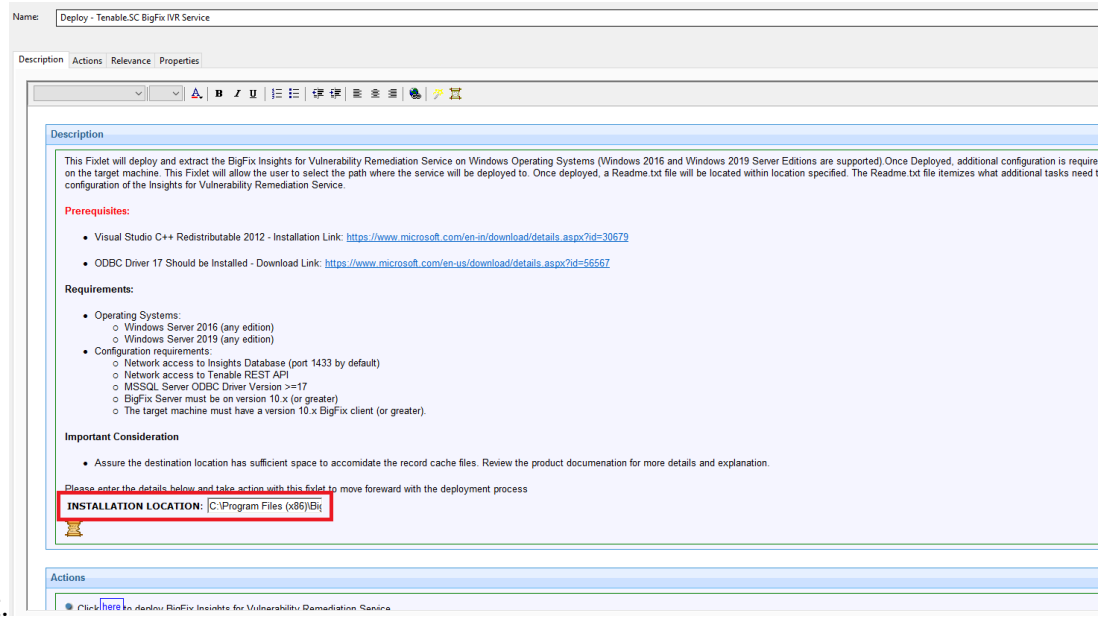


Table 3.

Field	Tenable
`Installation Location`	Full pathname to desired installation location of the BigFix Insights for Vulnerability Remediation Service. Ex: `C:\Program Files\HCL\BigFix Insights for Vulnerability Remediation`.

Note: Please note the following pre-requisites:

- Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/en-in/download/details.aspx?id=30679
- Microsoft ODBC Driver 17 for SQL Server: https://www.microsoft.com/en-us/download/details.aspx?id=56567
  - https://www.microsoft.com/en-us/download/details.aspx?id=56567

Warning: Do not deploy the BigFix Insights for Vulnerability Remediation Service to more than 1 machine.

Warning: Do not have more than 1 dataflow per IVR Service.

3. Run installation command.

   Purpose: This step installs the BFIVR (BigFix Insights for Vulnerability Remediation) executable as a windows service.

a. Navigate to the installation directory and run `BFIVR.exe --Install` command.
When successful, the message *'Installing service BFIVR. Service installed.'* appears in the command prompt.

Important: The command-line parameters for BFIVR.exe are case-sensitive.

4. Define the target for BigFix Insights.

Purpose: This step defines how the dataflow targets the Insights database.

a. Note down of the Insights Server IP/hostname/fqdn and the database name.

b. Create a connection string for the BigFix Insights database.
With the example below, modify the portions in italics denoting the target and databse. Ex: DRIVER={ODBC Driver 17 for SQL Server};SERVER=127.0.0.1;DATABASE=BFInsights

c. Navigate to the installation directory and run `BFIVR.exe --UpdateTargetURL BigfixINSIGHT "<Your_ODBC_String>"` comannd.

Important: The ODBC string must be written within double quotes.

5. Define the target for the scanner.

Purpose: This step defines how the dataflow targets the scanner URL.

a. Take a note of the Tenable.sc API scanner IP and port.

b. Navigate to the installation directory and run the following command:
`BFIVR.exe --UpdateTargetURL TenableSC https://<Server>:<Port>`

Important: The command-line parameters for BFIVR.exe are case-sensitive.

Example: If the IP of the Tenable Server is 192.168.0.133 and the target port is the default https port, the command looks as: `C:\BFIVR\BFIVR.exe --UpdateTargetURL TenableSC https://192.168.0.133`. To confirm the command, verify the `DataflowsConfig.xml` file in the installation path. The file should now reference the parameters that you have defined as connection string for the Tenable sc datasource.

6. Set the credentials for Insights.

   Purpose: This step defines how the dataflow authenticates with the Big Fix Insights database for standard ETL (Expand, Transform, Load) operations.

   a. Obtain the credentials for your BigFix Insigts database.

   b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials BigfixINSIGHT` command.

   c. Enter a username/access key and password/secret key, as prompted.

   Note: The Insights_User must have access to the BigFix Insights database.

   Note: When using special characters in password, make sure to enclose the password with double quotes.

   Important: The command-line parameters for BFIVR.exe are case-sensitive.

   When successful, the message 'The credentials provided are encrypted successfully!' appears in the command prompt.

7. Set the credentials for the scanner.

   Purpose: This step defines how the dataflow authenticates with the Tenable.sc API scanner.

a. Obtain the credentials for your Tenable.sc API server.

b. Navigate to the installation directory and run the command: `\BFIVR.exe --ProvideCredentials TenableSC`

   Example: When successful, the message *'The credentials provided are encrypted successfully!'* appears in the command prompt.

c. Enter a username/access key and password/secret key, as prompted.

   Note: When using special characters in password, make sure to enclose the password with double quotes.

   Important: The command-line parameters for BFIVR.exe are case-sensitive.

8. Initialize the IVR schema on Insights.

   Purpose: This step initializes the IVR Schema within BFInsights.

   a. Obtain the credentials for your BigFix Insights database.

   b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials --InitializeSchemas` command.

   c. Enter a username/access key and password/secret key, as prompted.

      Note: The account should have DBO rights to the database BigFix Insights DB.

      Note: When using special characters in password, make sure to enclose the password with double quotes.

      When successful, the message *'Schema Initialized Successfully!'* appears in the command prompt.

9. Validate the configuration.

   Purpose: This step verifies the configuration provided from the previous steps.

   a. Navigate to the installation directory and run `\BFIVR.exe --ValidateConfiguration` command.
      When successful, the message *'Configuration verified successfully!'* appears in the command prompt.

10. Post - installation steps.

    After you install the product, perform the steps provided in the link to verify that the installation run successfully: Post - installation steps.

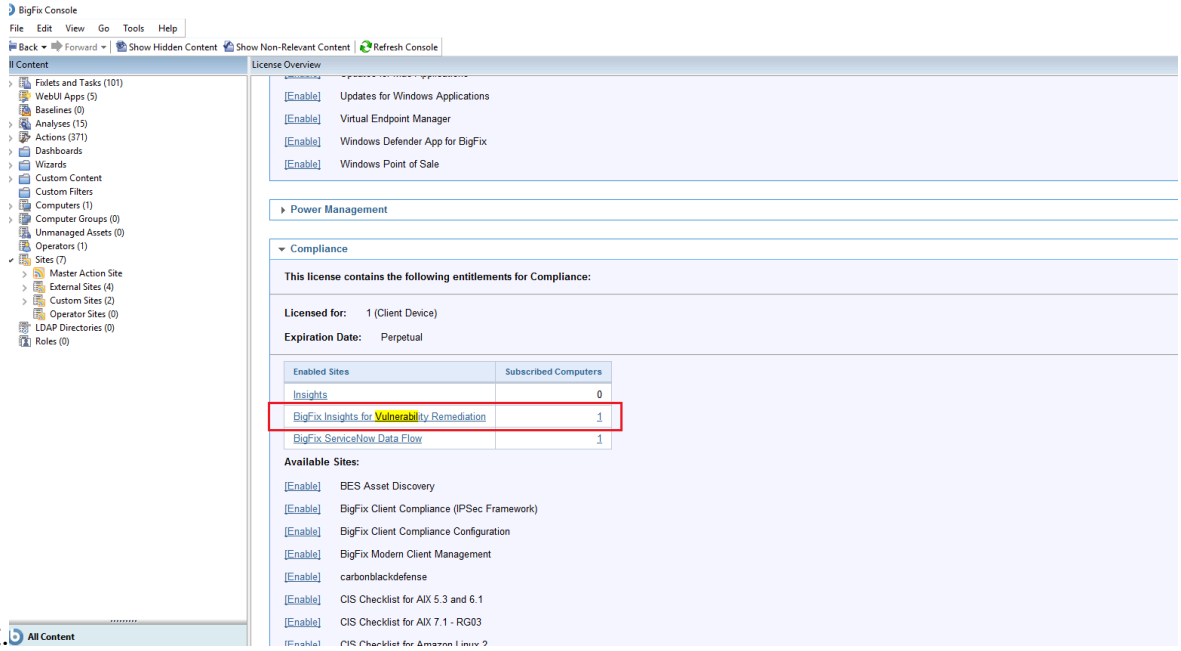
Deployment and configuration for Qualys

This module provides the steps to deploy and configure the BigFix Insights for Vulnerability Remediation solution.

To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:

1. Enable a content site.

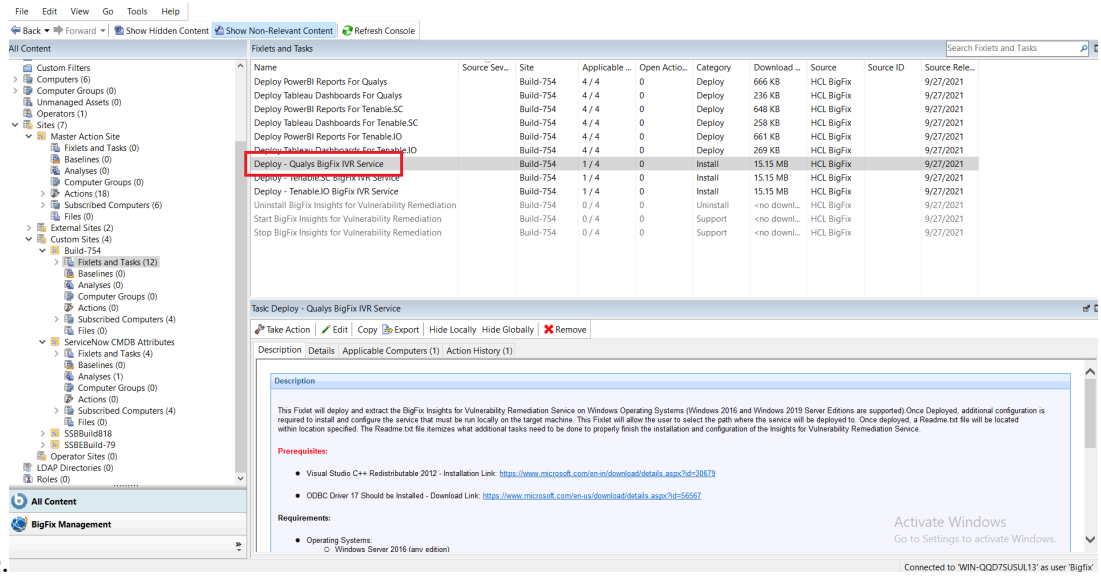
   Navigate to BigFix License Overview Dashboard. In **Compliance/Lifecycle** panel, click **Enable BigFix Insights for Vulnerability Remediation** Fixlet to gather the required content.



   Note: Please refer to the following link for more information (steps 4-10): https://help.hcltechsw.com/bigfix/10.0/platform/Platform/Installation/post_installation_steps.html

2. Deploy the solution to the target server.

a. Click **Deploy - Qualys BigFix IVR Service** Fixlet in the **BigFix Insights for Vulnerability Remediation** external site.



b. Fill the **Installation Location** field in the Description tab and deploy the Fixlet.

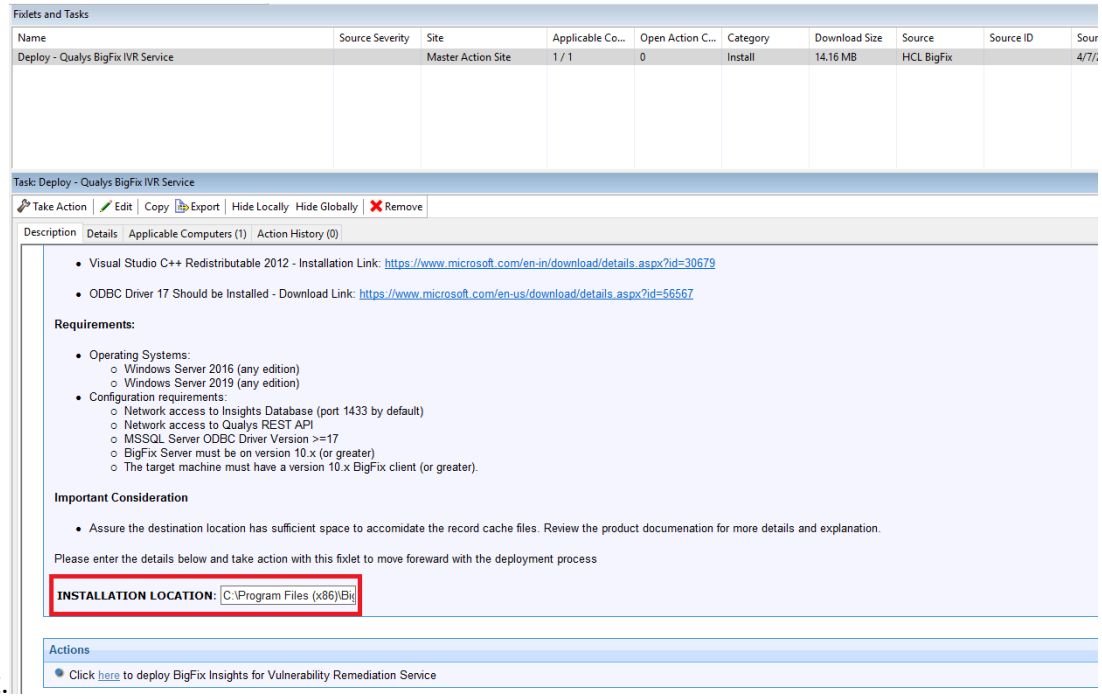


Table 4.

Field	Qualys
`Installation Location`	Full pathname to desired installation location of the BigFix Insights for Vulnerability Remediation Service. Ex: `C:\Program Files\HCL\BigFix Insights for Vulnerability Remediation`

Note: Please note the following pre-requisites:

- Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/en-in/download/details.aspx?id=30679
- Microsoft ODBC Driver 17 for SQL Server: https://www.microsoft.com/en-us/download/details.aspx?id=56567
  - https://www.microsoft.com/en-us/download/details.aspx?id=56567

Warning: Do not deploy the BigFix Insights for Vulnerability Remediation Service to more than 1 machine.

Warning: Do not have more than 1 dataflow per IVR Service.

3. Run installation command.

   Purpose: This step installs the BFIVR (BigFix Insights for Vulnerability Remediation) executable as a windows service.

a. Navigate to the installation directory and run `BFIVR.exe --Install` command.
When successful, the message *'Installing service BFIVR. Service installed.'* appears in the command prompt.

Important: The command-line parameters for BFIVR.exe are case-sensitive.

4. Define the target for BigFix Insights.

Purpose: This step defines how the dataflow targets the Insights database.

a. Note down of the Insights Server IP/hostname/fqdn and the database name.

b. Create a connection string for the BigFix Insights database.
With the example below, modify the portions in italics denoting the target and database. Ex: DRIVER={ODBC Driver 17 for SQL Server};SERVER=127.0.0.1;DATABASE=BFInsights

c. Navigate to the installation directory and run `BFIVR.exe --UpdateTargetURL BigfixINSIGHT "<Your_ODBC_String>"` command.

Important: The ODBC string must be written within double quotes.

5. Define the target for the scanner.

Purpose: This step defines how the dataflow targets the scanner URL.

a. Take a note of the Qualys API scanner IP and port.

b. Navigate to the installation directory and run the following command:
`BFIVR.exe --UpdateTargetURL QualysAPI https://<Server>:<Port>`

Important: The command-line parameters for BFIVR.exe are case-sensitive.

Example: If the IP of the Tenable Server is 192.168.0.133 and the target port is the default https port, the command looks as: `C:\BFIVR\BFIVR.exe --UpdateTargetURL Qualys https://192.168.0.133`. To confirm the command, verify the `DataflowsConfig.xml` file in the installation path. The file should now reference the parameters that you have defined as connection string for the Qualys datasource.

6. Set the credentials for Insights.

   Purpose: This step defines how the dataflow authenticates with the Big Fix Insights database for standard ETL (Expand, Transform, Load) operations.

   a. Obtain the credentials for your BigFix Insigts database.

   b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials BigfixINSIGHT` command.

   c. Enter a username/access key and password/secret key, as prompted.

   Note: The Insights_User must have access to the BigFix Insights database.

   Note: When using special characters in password, make sure to enclose the password with double quotes.

   Important: The command-line parameters for BFIVR.exe are case-sensitive.

   When successful, the message 'The credentials provided are encrypted successfully!' appears in the command prompt.

7. Set the credentials for the scanner.

   Purpose: This step defines how the dataflow authenticates with the Qualys API scanner.

a. Obtain the credentials for your Qualys API server.

b. Navigate to the installation directory and run the command: `\BFIVR.exe --ProvideCredentials QualysAPI`

   Example: When successful, the message *'The credentials provided are encrypted successfully!'* appears in the command prompt.

c. Enter a username/access key and password/secret key, as prompted.

   Note: When using special characters in password, make sure to enclose the password with double quotes.

   Important: The command-line parameters for BFIVR.exe are case-sensitive.

8. Initialize the IVR schema on Insights.

   Purpose: This step initializes the IVR Schema within BFInsights.

   a. Obtain the credentials for your BigFix Insights database.

   b. Navigate to the installation directory and run `\BFIVR.exe --ProvideCredentials --InitializeSchemas` command.

   c. Enter a username/access key and password/secret key, as prompted.

      Note: The account should have DBO rights to the database BigFix Insights DB.

      Note: When using special characters in password, make sure to enclose the password with double quotes.

      When successful, the message *'Schema Initialized Successfully!'* appears in the command prompt.

9. Validate the configuration.

   Purpose: This step verifies the configuration provided from the previous steps.

   a. Navigate to the installation directory and run `\BFIVR.exe --ValidateConfiguration` command.
      When successful, the message *'Configuration verified successfully!'* appears in the command prompt.

10. Post - installation steps.

    After you install the product, perform the steps provided in the link to verify that the installation run successfully: Post - installation steps.

Chapter 4. Updating and validating the IVR configuration file

You can update and validate the IVR configuration.

Note: Configuration-file changes remove all IVR data that is associated with the current data flow configuration (from which a hash is generated). Additionally, all data that is not associated with existing data flow configurations are removed. For more information, see the PurgeFindingsOnExecutionOfDataflow setting.

Updating the configuration file

1. Log in to the target server.
2. Go to the product installation directory.
3. Open the `DataFlowsConfig.xml` file in a text editor.
4. Update configuration. For more information, see Configuration Settings.

Validating the configuration file

1. Open CLI (Command Line Interface) and run the `BFIVR.exe --ValidateConfiguration` command.
2. Restart BigFix Insights for Vulnerability Remediation to import the new configuration. On successful completion, the message, *Configuration verified successfully* appears.

Chapter 5. Updating IVR credentials

You can update the IVR credentials.

1. Open the command-line interface (CLI) and run the BFIVR.exe --ProvideCredentials command.
2. Enter a username/access key and password/secret key, as prompted.
3. To access the data source, enter the updated username/access key and password/secret key credentials.

After the update is complete, the following message is displayed: `The entered credentials are encrypted successfully.`

Chapter 6. Business Intelligence reports

Use this section to become familiar with Power BI and Tableau reports.

The reporting functionality of the IVR (BigFix Insights for Vulnerability Remediation) solution addresses the three main use cases for the application:

- **Vulnerabilities with Available Fixlets** - A list of vulnerabilities that have matching BigFix fixlets available for remediation. The report will list the most recent fixlet related to each vulnerability, and the CVE entries that are associated to the vulnerability.
- **Vulnerabilities Without Available Fixlets** - A list of vulnerabilities that do not have an available fixlet for remediation.
- **Vulnerability Discrepancies** - A list of vulnerabilities where the scanning system identifies the issue, but BigFix declares it resolved. This occurs primarily because of timing differences in the scan processes.

The reports are produced in both Power BI (Desktop, optimized for BI Server, May 2020) and Tableau version 2020.4+.

Power BI reports

- Reporting differences: the functionality of the reports is nearly identical between Power BI and Tableau. This section details the differences between the reports.
- Navigation: each visualization is portayed on the dashoboard page. Vizualizations that do not apply to your business process can be removed as necessary.

  Power BI reports for Tenable.io

  Power BI reports for Tenable.sc

  Power BI reports for Qualys

Tableau reports

- Reporting differences: the functionality of the reports is nearly identical between Power BI and Tableau. This section details the differences between the reports.
- Navigation: each visualization is portrayed on the dashboard page. Visualizations that do not apply to your business process can be removed as necessary.

  Tableau reports for Tenable.io

  Tableau reports for Tenable.sc

  Tableau reports for Qualys

BI reports for Tenable.io

Get familiar with Power BI and Tableau reports for Tenable.io.

Power BI reports

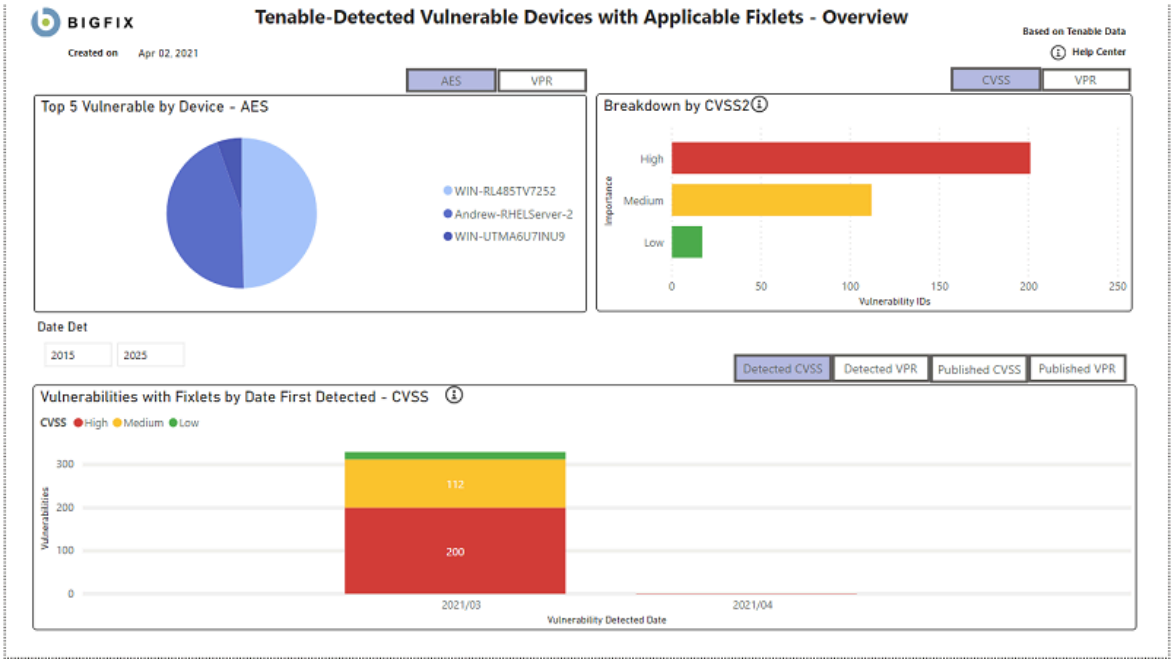
BigFix Insights for Vulnerability Remediation can now also consume vulnerability data from Tenable.io. With Tenable Lumin available, BigFix Insights for Vulnerability Remediation also consumes asset prioritization data:

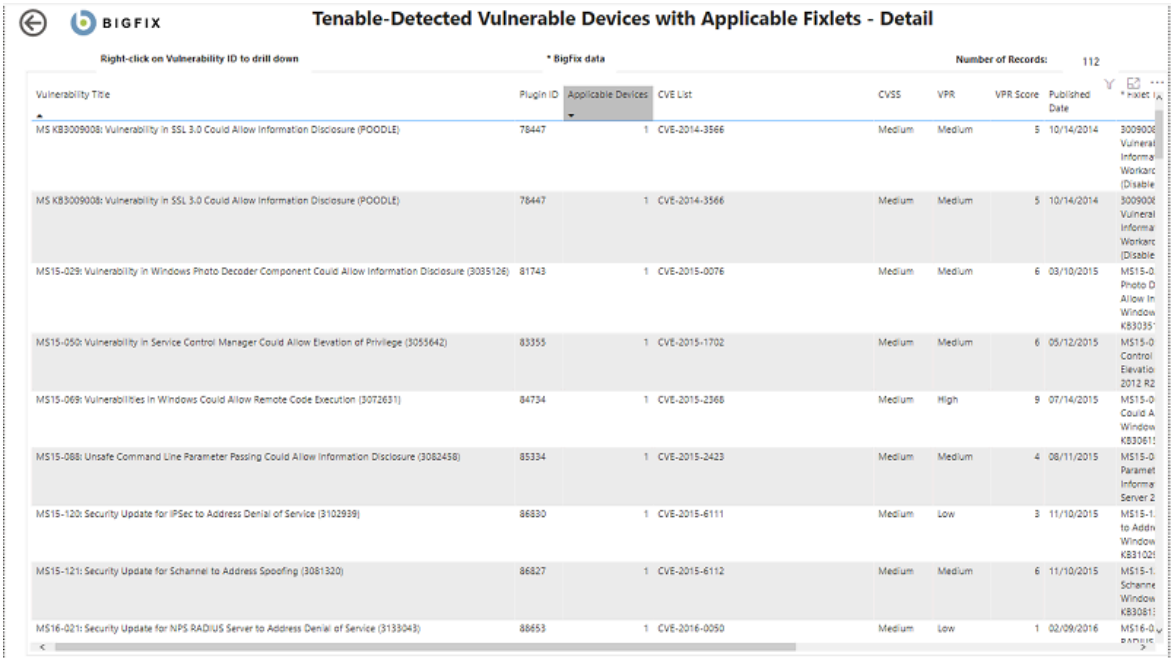
- Asset Criticality Rating (ACR): 1-10 rating that represents the asset's relative criticality based on device type, device purpose, and network location/proximity to the Internet.
- Asset Exposure Score (AES): A metric that combines ACR & VPR (Vulnerability Priority Rating) into a single score to represent an asset's relative exposure.

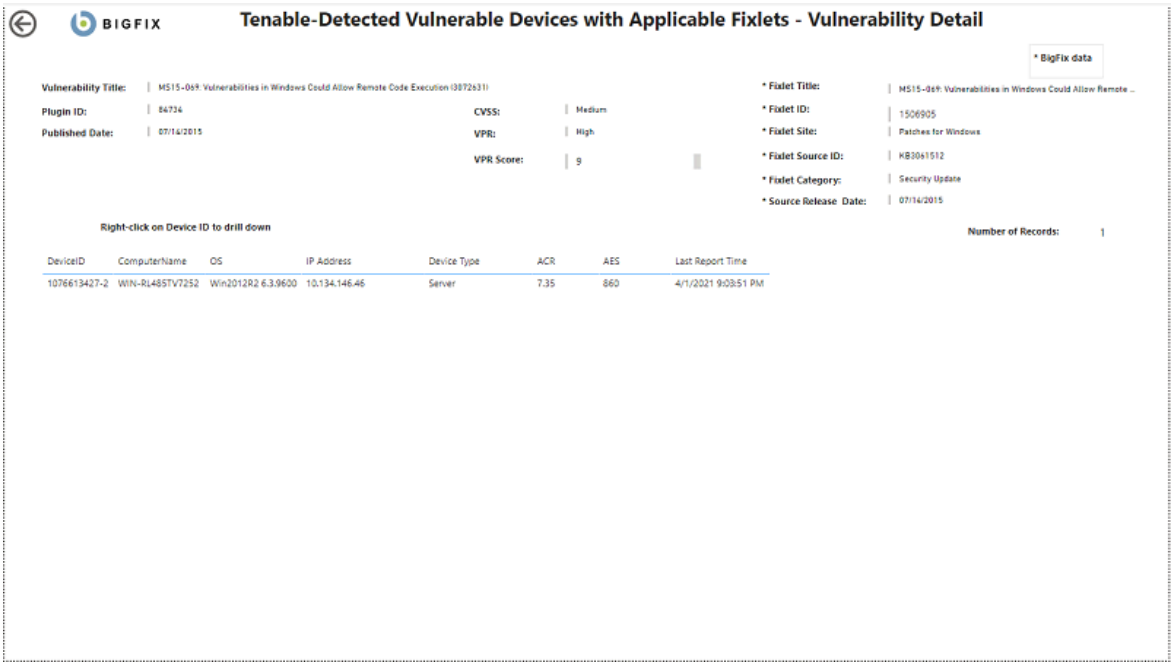
Refer to the link for more information: Lumin Metrics

Additionally, uniquely for Tenable.io, BigFix sends it's endpoint asset data to Tenable.io to give it visibility into potentially unmanaged assets.

- **Detected Vulnerabilities with Applicable Fixlets**







BIGFIX

Tenable-Detected Vulnerable Devices with Applicable Fixlets - Vulnerability Detail

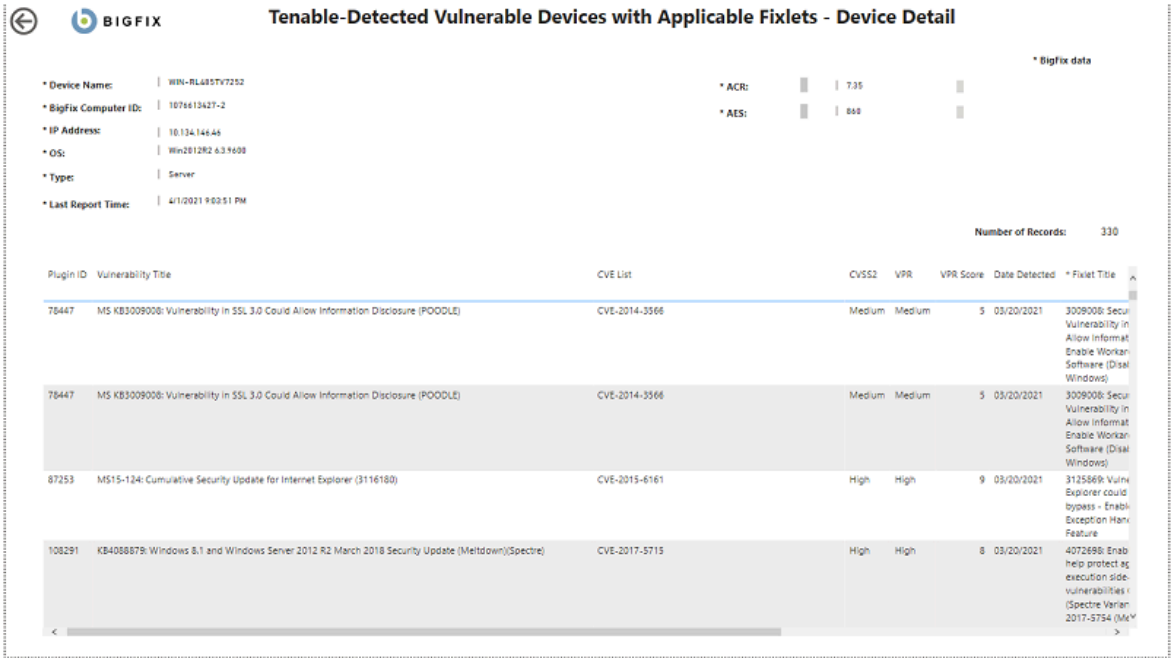
* BigFix data

Vulnerability Title: MS15-069: Vulnerabilities in Windows Could Allow Remote Code Execution (3072631)
Plugin ID: 84734
Published Date: 07/14/2015
CVSS: Medium
VPR: High
VPR Score: 9
*** Fixlet Title:** MS15-069: Vulnerabilities in Windows Could Allow Remote ...
*** Fixlet ID:** 1506905
*** Fixlet Site:** Patches for Windows
*** Fixlet Source ID:** KB3061512
*** Fixlet Category:** Security Update
*** Source Release Date:** 07/14/2015

Right-click on Device ID to drill down

Number of Records: 1

DeviceID	ComputerName	OS	IP Address	Device Type	ACR	AES	Last Report Time
1076613427-2	WIN-RL48STV7252	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM



BIGFIX

Tenable-Detected Vulnerable Devices with Applicable Fixlets - Device Detail

* BigFix data

*** Device Name:** WIN-RL48STV7252
*** BigFix Computer ID:** 1076613427-2
*** IP Address:** 10.134.146.46
*** OS:** Win2012R2 6.3.9600
*** Type:** Server
*** Last Report Time:** 4/1/2021 9:03:51 PM
*** ACR:** 7.35
*** AES:** 860

Number of Records: 330

Plugin ID	Vulnerability Title	CVE List	CVSS2	VPR	VPR Score	Date Detected	* Fixlet Title
78447	MS KB3009008: Vulnerability in SSL 3.0 Could Allow Information Disclosure (POODLE)	CVE-2014-3566	Medium	Medium	5	03/20/2021	3009008: Secu Vulnerability in Allow Informat Enable Workar Software (Disa Windows)
78447	MS KB3009008: Vulnerability in SSL 3.0 Could Allow Information Disclosure (POODLE)	CVE-2014-3566	Medium	Medium	5	03/20/2021	3009008: Secu Vulnerability in Allow Informat Enable Workar Software (Disa Windows)
87253	MS15-124: Cumulative Security Update for Internet Explorer (3116180)	CVE-2015-6161	High	High	9	03/20/2021	3125869: Vuln Explorer could bypass - Enabl Exception Han Feature
108291	KB4088879: Windows 8.1 and Windows Server 2012 R2 March 2018 Security Update (Meltdown)(Spectre)	CVE-2017-5715	High	High	8	03/20/2021	4072698: Enab help protect ag execution side- vulnerabilities (Spectre Varian 2017-5754 (Me

- **Detected Vulnerabilities without Available Fixlets**


BIGFIX
Tenable-Detected Vulnerable Devices Without Available Fixlets - Overview
Created on Apr 02, 2021
Based on Tenable Data
Help Center
AES
VPR
CVSS
VPR
Top 5 Vulnerable by Device - AES
Andrew-RHELServer-2
W10-BOBCLIENT8
W2016-BOB2
WIN-RL485TV7252
WIN-UTMA6U7INU9
Breakdown by CVSS2
High
Medium
Low
N/A
Importance
0
50
100
Vulnerability IDs
Date Det
Year/Month
All
Detected CVSS
Detected VPR
Published CVSS
Published VPR
Vulnerabilities by Date First Detected - CVSS
CVSS High Medium Low N/A
200
150
100
50
0
Vulnerabilities
78
107
2021/03
Vulnerability Detected Date

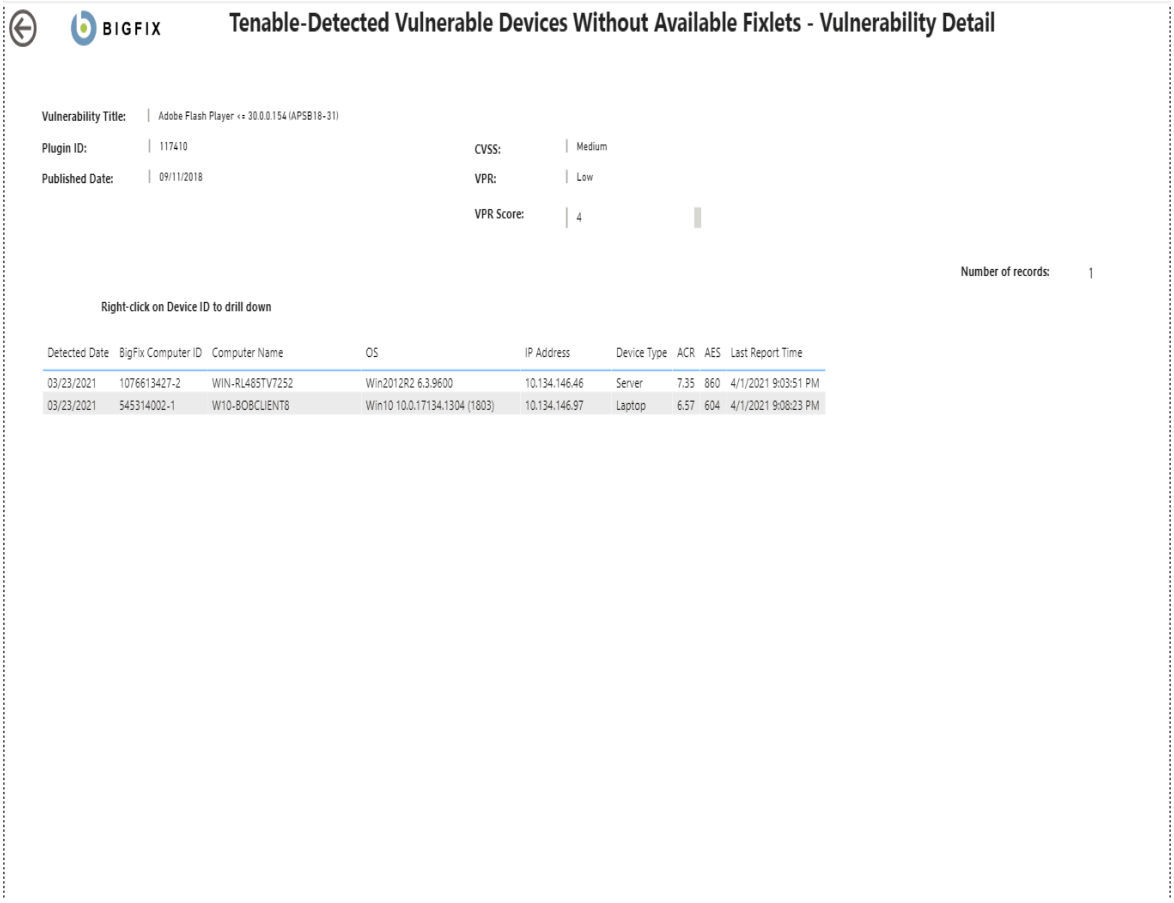
BIGFIX

Tenable-Detected Vulnerable Devices Without Available Fixlets - Detail

Right-click on Plugin ID to drill down

Number of records: 78

Vulnerability Title	Plugin ID	CVE List	CVSS2	CVSS3	VPR	VPR Score	Applicable_Devices	Detected Date
Adobe Flash Player <= 27.0.0.159 Type Confusion Vulnerablity (APSB17-32)	103922	CVE-2017-11292	Medium	High	High	9	1	03/20/2021
KB4049179: Security update for Adobe Flash Player (October 2017)	103924	CVE-2017-11292	Medium	High	High	9	1	03/20/2021
TLS Version 1.0 Protocol Detection	104743		Medium	Medium	N/A	0	5	03/08/2021
TLS Version 1.0 Protocol Detection	104743		Medium	Medium	N/A	0	5	03/16/2021
TLS Version 1.0 Protocol Detection	104743		Medium	Medium	N/A	0	5	03/20/2021
TLS Version 1.0 Protocol Detection	104743		Medium	Medium	N/A	0	5	03/22/2021
TLS Version 1.0 Protocol Detection	104743		Medium	Medium	N/A	0	5	03/24/2021
Adobe Flash Player <= 27.0.0.187 (APSB17-42)	105175	CVE-2017-11305	Medium	High	Low	4	1	03/20/2021
KB4053577: Security update for Adobe Flash Player (December 2017)	105178	CVE-2017-11305	Medium	High	Low	4	1	03/20/2021
Adobe Flash Player <= 28.0.0.126 (APSB18-01)	105691	CVE-2018-4871	Medium	High	Low	4	1	03/20/2021
KB4056887: Security update for Adobe Flash Player (January 2018)	105693	CVE-2018-4871	Medium	High	Low	4	1	03/20/2021
Adobe Flash Player <= 30.0.0.113 (APSB18-24)	110979	CVE-2018-5007; CVE-2018-5008	Medium	High	Medium	6	2	03/20/2021
Adobe Flash Player <= 30.0.0.113 (APSB18-24)	110979	CVE-2018-5007; CVE-2018-5008	Medium	High	Medium	6	2	03/23/2021
KB4338832: Security update for Adobe Flash Player (July 2018)	110988	CVE-2018-5007; CVE-2018-5008	Medium	High	Medium	6	2	03/20/2021
KB4338832: Security update for Adobe Flash Player (July 2018)	110988	CVE-2018-5007; CVE-2018-5008	Medium	High	Medium	6	2	03/23/2021
Adobe Flash Player <= 30.0.0.154 (APSB18-31)	117410	CVE-2018-15967	Medium	High	Low	4	2	03/20/2021
Adobe Flash Player <= 30.0.0.154 (APSB18-31)	117410	CVE-2018-15967	Medium	High	Low	4	2	03/23/2021
KB4457146: Security update for Adobe Flash Player (September 2018)	117419	CVE-2018-15967	Medium	High	Low	4	2	03/20/2021
KB4457146: Security update for Adobe Flash Player (September 2018)	117419	CVE-2018-15967	Medium	High	Low	4	2	03/23/2021
Adobe Flash Player <= 31.0.0.122 (APSB18-39)	118909	CVE-2018-15978	Medium	High	Medium	7	3	03/08/2021
Adobe Flash Player <= 31.0.0.122 (APSB18-39)	118909	CVE-2018-15978	Medium	High	Medium	7	3	03/20/2021
Adobe Flash Player <= 31.0.0.122 (APSB18-39)	118909	CVE-2018-15978	Medium	High	Medium	7	3	03/23/2021
KB4467694: Security update for Adobe Flash Player (November 2018)	118917	CVE-2018-15978	Medium	High	Medium	7	3	03/08/2021
KB4467694: Security update for Adobe Flash Player (November 2018)	118917	CVE-2018-15978	Medium	High	Medium	7	3	03/20/2021
KB4467694: Security update for Adobe Flash Player (November 2018)	118917	CVE-2018-15978	Medium	High	Medium	7	3	03/23/2021
Adobe Flash Player <= 32.0.0.114 (APSB19-06)	122117	CVE-2019-7090	Medium	Medium	Low	4	3	03/08/2021
Adobe Flash Player <= 32.0.0.114 (APSB19-06)	122117	CVE-2019-7090	Medium	Medium	Low	4	3	03/20/2021
Adobe Flash Player <= 32.0.0.114 (APSB19-06)	122117	CVE-2019-7090	Medium	Medium	Low	4	3	03/23/2021
KB4487038: Security update for Adobe Flash Player (February 2019)	122130	CVE-2019-7090	Medium	Medium	Low	4	3	03/08/2021
KB4487038: Security update for Adobe Flash Player (February 2019)	122130	CVE-2019-7090	Medium	Medium	Low	4	3	03/20/2021
KB4487038: Security update for Adobe Flash Player (February 2019)	122130	CVE-2019-7090	Medium	Medium	Low	4	3	03/23/2021
Security Updates for Microsoft SQL Server (May 2019)	125070	CVE-2019-0819	Medium	Medium	Low	4	1	03/20/2021
Microsoft Windows Remote Desktop Protocol Server Man-in-the-Middle Weakness	18405	CVE-2005-1794	Medium		Medium	4	1	03/20/2021



BIGFIX

Tenable-Detected Vulnerable Devices Without Available Fixlets - Vulnerability Detail

Vulnerability Title: Adobe Flash Player <= 30.0.0.154 (APSB18-31)

Plugin ID: 117410

Published Date: 09/11/2018

CVSS: Medium

VPR: Low

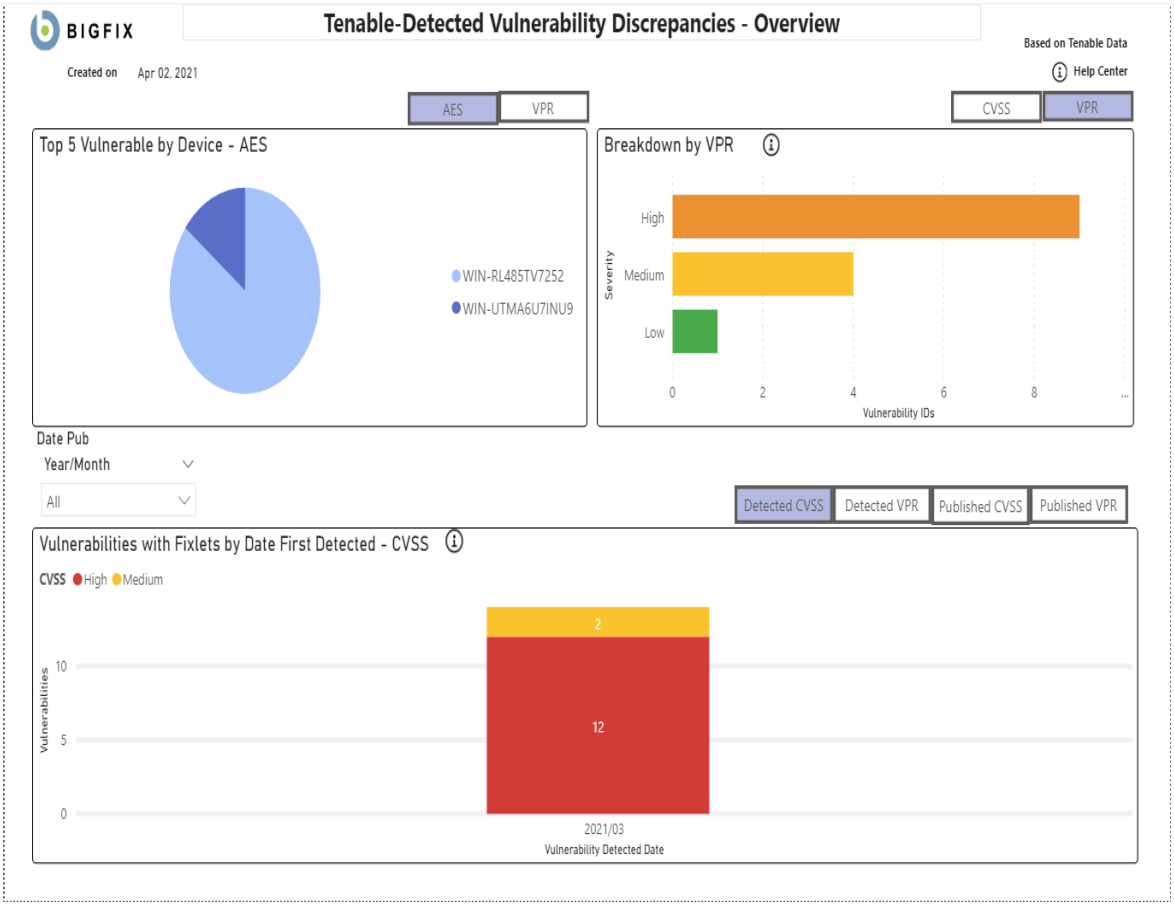
VPR Score: 4

Number of records: 1

Right-click on Device ID to drill down

Detected Date	BigFix Computer ID	Computer Name	OS	IP Address	Device Type	ACR	AES	Last Report Time
03/23/2021	1076613427-2	WIN-RL485TV7252	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM
03/23/2021	545314002-1	W10-BOBCLIENT8	Win10 10.0.17134.1304 (1803)	10.134.146.97	Laptop	6.57	604	4/1/2021 9:08:23 PM

- **Vulnerability Discrepancies**


BIGFIX
Tenable-Detected Vulnerability Discrepancies - Overview
Based on Tenable Data
Created on Apr 02, 2021
Help Center
AES
VPR
CVSS
VPR
Top 5 Vulnerable by Device - AES
WIN-RL485TV7252
WIN-UTMA6U7INU9
Breakdown by VPR
High
Medium
Low
Severity
0
2
4
6
8
Vulnerability IDs
Date Pub
Year/Month
All
Detected CVSS
Detected VPR
Published CVSS
Published VPR
Vulnerabilities with Fixlets by Date First Detected - CVSS
CVSS High Medium
2
12
10
5
0
Vulnerabilities
2021/03
Vulnerability Detected Date

BIGFIX

Tenable-Detected Vulnerability Discrepancies - Detail

Right-click on Vulnerability ID to drill down *** BigFix data** **Number of records:** 12

Vulnerability Title	Plugin ID	CVE List	CVSS2	VPR	VPR Score	Applicable Devices	Published Date	* Fixlet Title	Fixlet ID	* Fixlet Site	* Fixlet Source ID	* Fi Cat
Windows 8.1 and Windows Server 2012 R2 May 2017 Security Updates	100057	CVE-2017-0248	High	High	9	1	05/09/2017	MS17-MAY: Security Only Quality Update - Security Only - Windows Server 2012 R2 - .NET Framework 4.6/4.6.1 - KB4014590 (x64)	401459003	Patches for Windows	KB4019111	Sec
KB4088879: Windows 8.1 and Windows Server 2012 R2 March 2018 Security Update (Meltdown)(Spectre)	108291	CVE-2017-5715	High	High	8	1	03/13/2018	4072698: Enable mitigations to help protect against CVE 2018-3639, CVE-2017-5715, CVE-2017-5754 , CVE-2018-11091, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130 - Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / Windows 2016	407269805	Patches for Windows	KB4072698	Sec Adv
Windows 8.1 and Windows Server 2012 R2 September 2017 Security Updates	103131	CVE-2017-8759	High	High	9	1	09/12/2017	MS17-SEP: Security Only Quality Update - Security Only - Windows Server 2012 R2 - .NET Framework 4.6/4.6.1/4.6.2/4.7 - KB4040956 (x64)	404109201	Patches for Windows	KB4041092	Sec
KB4103715: Windows 8.1 and Windows Server 2012 R2 May 2018 Security Update	109607	CVE-2018-0765; CVE-2018-1039	High	High	10	1	05/08/2018	MS18-MAY: Security Only Quality Update - Security Only - Windows Server 2012 R2 - .NET Framework 4.6/4.6.1/4.6.2/4.7/4.7.1 - KB4096236 (x64)	409623603	Patches for Windows	KB4099639	Sec
KB4499165: Windows 8.1 and Windows Server 2012 R2 May 2019 Security Update (MDSUM/RIDL) (MFBDS/RIDL/ZombieLoad) (MLPDS/RIDL) (MSBDS/Fallout)	125061	CVE-2018-12126	High	High	9	1	05/14/2019	4072698: Enable mitigations to help protect against CVE 2018-3639, CVE-2017-5715, CVE-2017-5754 , CVE-2018-11091, CVE-2018-12126, CVE-2018-12127, CVE-2018-12130 - Windows Server 2008 / 2008 R2 / 2012 / 2012 R2 / Windows 2016	407269805	Patches for Windows	KB4072698	Sec Adv
KB4338824: Windows 8.1 and Windows Server 2012 R2 July 2018 Security Update	110981	CVE-2018-8202; CVE-2018-8260; CVE-2018-8284; CVE-2018-8356	High	High	9	1	07/10/2018	MS18-JUL: Security Only Quality Update - Security Only - Windows Server 2012 R2 - .NET Framework 4.6/4.6.1/4.6.2/4.7/4.7.1 - KB4338605 (x64)	433860503	Patches for Windows	KB4340006	Sec
KB4480964: Windows 8.1 and Windows Server 2012 R2 January 2019 Security Update	121014	CVE-2019-0545	High	High	10	1	01/08/2019	MS19-JAN: Security Only Quality Update - Security Only - Windows Server 2012 R2 - .NET Framework 4.6/4.6.1/4.6.2/4.7/4.7.1/4.7.2 - KB4480071 (x64)	448007103	Patches for Windows	KB4480071	Sec

BIGFIX

Tenable-Detected Vulnerability Discrepancies - Vulnerability Detail

Vulnerability Title: KB4103715: Windows 8.1 and Windows Server 2012 R2 May 2018 Security ...

Plugin ID: 109607

Published Date: 05/08/2018

CVSS: High

VPR: High

VPR Score: 10

* BigFix data

*** Fixlet Title:** MS18-MAY: Security Only Quality Update - Security Only - ...

*** Fixlet ID:** 409623603

*** Fixlet Site:** Patches for Windows

*** Fixlet Source ID:** KB4099639

*** Fixlet Category:** Security Update

*** Source Release Date:** 05/08/2018

Right-click on Device ID to drill down

Number of records: 1

Date Detected	* BigFix Computer ID	* Computer Name	* OS	IP Address	Device Type	ACR	AES	Last Report Time
03/20/2021	1076613427-2	WIN-RL485TV7252	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM

Tableau reports

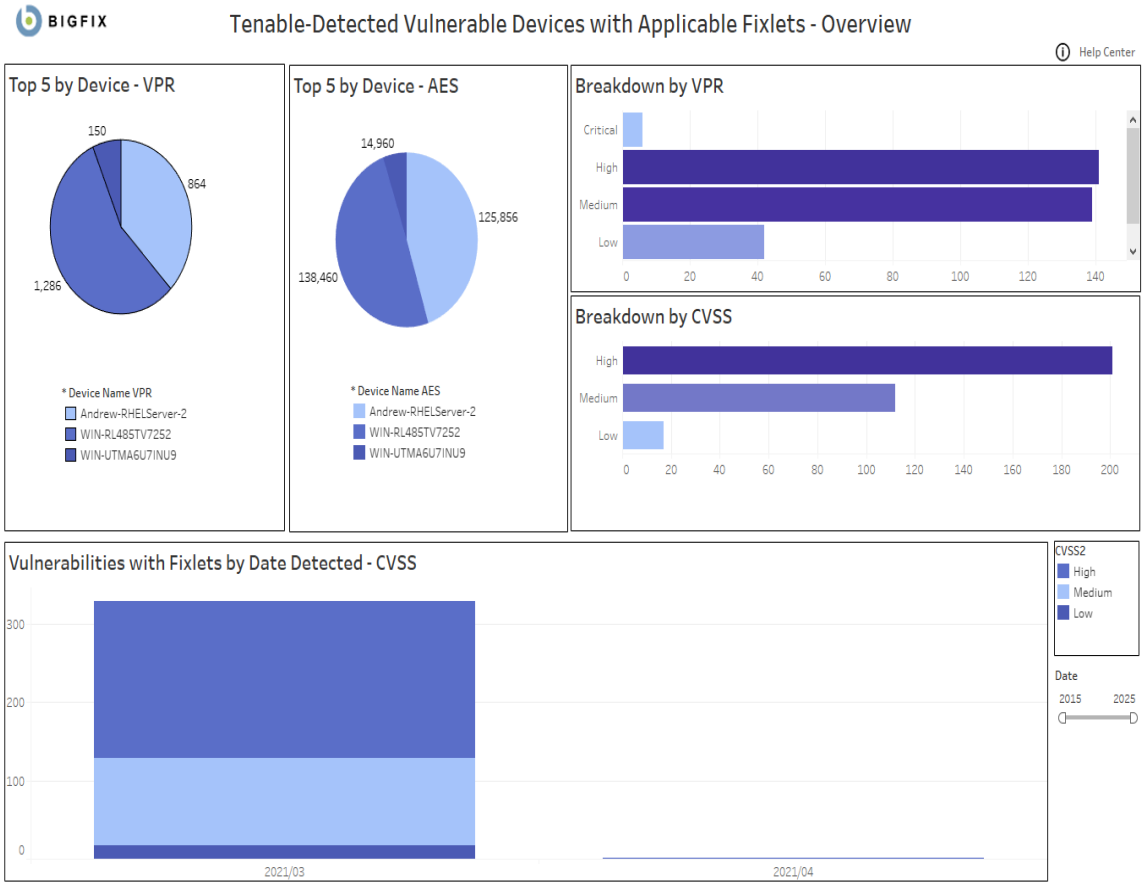
BigFix Insights for Vulnerability Remediation can now also consume vulnerability data from Tenable.io. With Tenable Lumin available, BigFix Insights for Vulnerability Remediation also consumes asset prioritization data:

- Asset Criticality Rating (ACR): 1-10 rating that represents the asset's relative criticality based on device type, device purpose, and network location/proximity to the Internet.
- Asset Exposure Score (AES): A metric that combines ACR & VPR (Vulnerability Priority Rating) into a single score to represent an asset's relative exposure.

Refer to the link for more information: Lumin Metrics

Additionaly, uniquely for Tenable.io, BigFix sends it's endpoint asset data to Tenable.io to give it visibility into potentially unmanaged assets.

- **Detected Vulnerabilities with Applicable Fixlets**



BIGFIX

Right-click on Plugin ID to drill down

Vulnerability List - 139 Rows

* BigFix data

Vulnerability Title	Pulgin ID	Applicable Devices	CVE List	CVSS2	CVSS3	VPR	VPR Score	Total VPR S..	Detected D..	Published D..	Product/I
MS KB3009008: Vulnerability in SSL 3.0 Could Allow Information Disclosure (POODLE)	78447	1	CVE-2014-3566	Medium		Medium	4.9	5	3/20/2021	10/14/2014	Windows
MS15-006: Vulnerability in Windows Error Rep..	80495	1	CVE-2015-0001	Low		Medium	4.2	4	3/20/2021	01/13/2015	Windows
MS15-014: Vulnerability in Group Policy Could ..	81267	1	CVE-2015-0009	Low		Medium	4.4	4	3/20/2021	02/10/2015	Windows
MS15-029: Vulnerability in Windows Photo De..	81743	1	CVE-2015-0076	Medium		Medium	5.7	6	3/20/2021	03/10/2015	Windows
MS15-050: Vulnerability in Service Control Ma..	83355	1	CVE-2015-1702	Medium		Medium	5.9	6	3/20/2021	05/12/2015	Windows
MS15-060: Vulnerability in Microsoft Common ..	84056	1	CVE-2015-1756	High		Medium	6.7	7	3/20/2021	06/09/2015	Windows
MS15-082: Vulnerability in RDP Could Allow Re..	85332	1	CVE-2015-2472	High		Medium	5.9	6	3/20/2021	08/11/2015	Windows
MS15-088: Unsafe Command Line Parameter P..	85334	1	CVE-2015-2423	Medium		Medium	4.2	4	3/20/2021	08/11/2015	Windows
MS15-089: Vulnerability in WebDAV Could Allo..	85323	1	CVE-2015-2476	Low		Medium	4.4	4	3/20/2021	08/11/2015	Windows
MS15-119: Security Update for Winsock to Ad..	86826	1	CVE-2015-2478	High		Medium	5.9	6	3/20/2021	11/10/2015	Windows
MS15-121: Security Update for Schannel to Ad..	86827	1	CVE-2015-6112	Medium		Medium	5.5	6	3/20/2021	11/10/2015	Windows
MS15-133: Security Update for Windows PGM ..	87262	1	CVE-2015-6126	High		Medium	5.9	6	3/20/2021	12/08/2015	Windows
MS16-013: Security Update for Windows Jour..	88645	1	CVE-2016-0038	High	High	Medium	6.7	7	3/20/2021	02/09/2016	Windows
MS16-027: Security Update for Windows Media to Address Remote Code Execution (3143146)	89750	1	CVE-2016-0098	High	High	Medium	6.7	7	3/20/2021	03/08/2016	Windows
			CVE-2016-0101	High	High	Medium	6.7	7	3/20/2021	03/08/2016	Windows
MS16-033: Security Update for Windows USB ..	89779	1	CVE-2016-0133	High	Medium	Medium	6.7	7	3/20/2021	03/08/2016	Windows
MS16-047: Security Update for SAM and LSAD ..	90510	1	CVE-2016-0128	Medium	Medium	Medium	6	6	3/20/2021	03/23/2016	Windows
MS16-067: Security Update for Volume Manag..	91016	1	CVE-2016-0190	Low	Medium	Medium	4.4	4	3/20/2021	05/10/2016	Windows
MS16-072: Security Update for Group Policy (3..	91600	1	CVE-2016-3223	High	High	Medium	6.7	7	3/20/2021	06/14/2016	Windows
MS16-076: Security Update for Netlogon (316..	91604	1	CVE-2016-3228	High	High	Medium	6.7	7	3/20/2021	06/14/2016	Windows
MS16-087: Security Update for Windows Print ..	92018	1	CVE-2016-3238	High	High	Medium	6.7	7	3/20/2021	07/12/2016	Windows
MS16-124: Security Update for Windows Regis..	94013	1	CVE-2016-0070; CVE-2016-0073..	Medium	Medium	Medium	6.6	7	3/20/2021	10/11/2016	Windows
MS16-134: Security Update for Common Log Fi..	94635	1	CVE-2016-0026; CVE-2016-3332..	High	High	Medium	5.9	6	3/20/2021	11/08/2016	Windows
MS16-137: Security Update for Windows Auth..	94638	1	CVE-2016-7237; CVE-2016-7238	High	High	Medium	5.9	6	3/20/2021	11/08/2016	Windows
MS16-149: Security Update for Microsoft Win..	95813	1	CVE-2016-7219; CVE-2016-7292	High	High	Medium	5.9	6	3/20/2021	11/17/2016	Windows
RHEL 7 : avahi (RHSA-2020:1176)	135048	1	CVE-2017-6519	Medium	Critical	Medium	5.2	5	3/11/2021	03/03/2015	Null
RHEL 7 : bash (RHSA-2020:1113)	135062	1	CVE-2019-9924	High	High	Medium	6.7	7	3/11/2021	03/22/2019	Null
RHEL 7 : bind (RHSA-2020:2344)	137082	1	CVE-2020-8616; CVE-2020-8617	Medium	High	Medium	6	6	3/11/2021	05/19/2020	Null
RHEL 7 : cpio (RHSA-2020:3908)	141056	1	CVE-2019-14866	Medium	High	Medium	6.7	7	3/11/2021	01/07/2020	Null

BIGFIX

Vulnerability Device Summary

*BigFix Data

Vulnerabilit..	Pulgin ID	CVE List	CVSS2	CVSS3	VPR	VPR Score	Total VPR S..	Detected D..	Published D..	Product/Fa..	* Fixlet Title	* Fixlet ID	* Fixle
MS15-050: ..	83355	CVE-2015-1..	Medium		Medium	5.9	6	3/20/2021	05/12/2015	Windows	MS15-050: Vulnerability in Service Control Manager ..	1505015	Patch

Right-click on Device ID to drill down

Vulnerability Device Detail - 1 Rows

Detected Date	DeviceID	* Device Name Detail	* OS	* IP Address	* Type	ACR	AES	* Last Report Time
3/20/2021	1076613427-2	WIN-RL485TV7252	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM

BIGFIX

Device Detail Summary

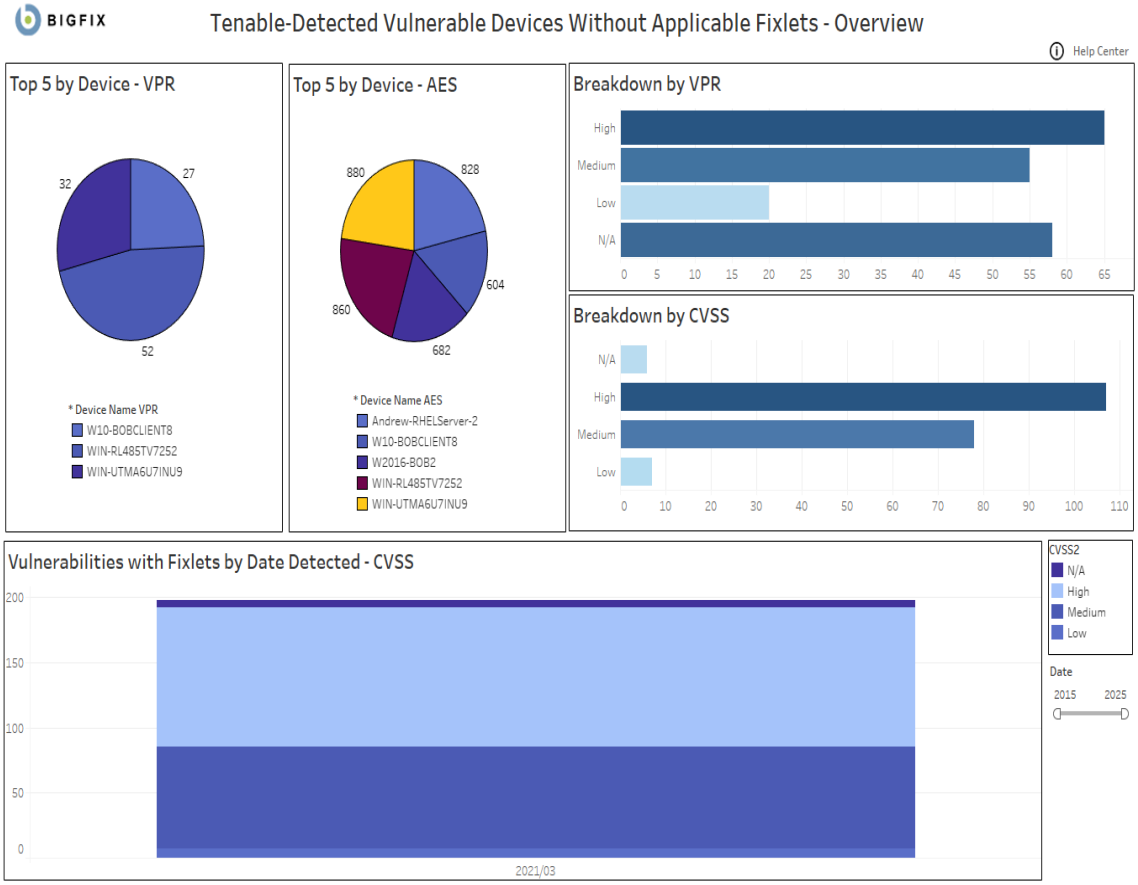
* BigFix data

DeviceID	* Device Name Det..	* IP Address	* OS	* Type	ACR	AES	* Last Report Time
1076613427-2	WIN-RL485TV7252	10.134.146.46	Win2012R2 6.3.9600	Server	7.35	860	4/1/2021 9:03:51 PM

Vulnerability Detail - 161 Rows

Vulnerability Title	Pulgin ID	CVE List	CVSS2	CVSS3	VPR	VPR Score	Total VPR S..	Detected Date	Published D..	Product/Fa..	* Fixlet Title	* Fixlet ID	* Fi
KB4088879: Wind..	108291	CVE-2017-5..	High	High	High	8.4	8	3/20/2021	03/13/2018	Windows	4072698: Enable mitigations to help pr..	407269801	Pat
KB4093115: Wind..	108965	CVE-2018-0..	High	High	High	9	9	3/20/2021	04/10/2018	Windows	MS18-APR: Security Only Quality Updat..	409311501	Pat
KB4103715: Wind..	109607	CVE-2018-0..	High	High	High	9.8	10	3/20/2021	05/08/2018	Windows	MS18-MAY: Security Only Quality Upda..	410371501	Pat
KB4338824: Wind..	110981	CVE-2018-8..	High	High	High	9	9	3/20/2021	07/10/2018	Windows	MS18-JUL: Security Only Quality Updat..	433882403	Pat
KB4457143: Wind..	117412	CVE-2018-8..	High	Critical	High	9	9	3/20/2021	09/11/2018	Windows	MS18-SEP: Security Only Quality Updat..	445714303	Pat
KB4462941: Wind..	118002	CVE-2018-8..	High	High	High	9.6	10	3/20/2021	10/09/2018	Windows	MS18-OCT: Security Only Quality Updat..	446294101	Pat
KB4467703: Wind..	118918	CVE-2018-8..	High	Critical	High	8.9	9	3/20/2021	11/13/2018	Windows	MS18-NOV: Security Only Quality Upda..	446770303	Pat
KB4471322: Windows 8.1 and ..	119583	CVE-2018-8..	High	Critical	High	9.4	9	3/20/2021	12/11/2018	Windows	MS18-DEC: Security Only Quality Updat..	447132201	Pat
		CVE-2018-8..	High	Critical	High	9.4	9	3/20/2021	12/11/2018	Windows	MS18-DEC: Security Only Quality Updat..	447049903	Pat
KB4480964: Wind..	121014	CVE-2019-0..	High	High	High	9.8	10	3/20/2021	01/08/2019	Windows	MS19-JAN: Security Only Quality Updat..	448096401	Pat
KB4487028: Windows 8.1 and ..	122120	CVE-2019-0..	High	High	High	8.9	9	3/20/2021	02/12/2019	Windows	MS19-FEB: Security Only Quality Updat..	448702801	Pat
		CVE-2019-0..	High	High	High	8.9	9	3/20/2021	02/12/2019	Windows	MS20-OCT: Security and Quality Rollup ..	457896201	Pat
KB4489883: Wind..	122784	CVE-2019-0..	High	High	High	8.4	8	3/20/2021	03/12/2019	Windows	MS19-MAR: Security Only Quality Upda..	448988301	Pat
KB4493467: Wind..	123940	CVE-2019-0..	High	High	High	9.5	10	3/20/2021	04/09/2019	Windows	MS19-APR: Security Only Quality Updat..	449346701	Pat
KB4499165: Wind..	125061	CVE-2019-0..	High	High	High	8.9	9	3/20/2021	05/14/2019	Windows	MS19-MAY: Security Only Quality Upda..	449916503	Pat
KB4503290: Wind..	125818	CVE-2019-0..	High	High	High	9.8	10	3/20/2021	06/11/2019	Windows	MS19-JUN: Security Only Quality Updat..	450329003	Pat
KB4507457:	126570	CVE-2019-0..	High	High	High	9	9	3/20/2021	07/09/2019	Windows	MS19-JUL: Security Only Quality Updat..	450745701	Pat

- **Detected Vulnerabilities without Available Fixlets**


BIGFIX
Tenable-Detected Vulnerable Devices Without Applicable Fixlets - Overview
Help Center
Top 5 by Device - VPR
27
32
52
* Device Name VPR
W10-BOBCLIENT8
WIN-RL485TV7252
WIN-UTMA6U7INU9
Top 5 by Device - AES
828
880
604
860
682
* Device Name AES
Andrew-RHELServer-2
W10-BOBCLIENT8
W2016-BOB2
WIN-RL485TV7252
WIN-UTMA6U7INU9
Breakdown by VPR
High
Medium
Low
N/A
0 5 10 15 20 25 30 35 40 45 50 55 60 65
Breakdown by CVSS
N/A
High
Medium
Low
0 10 20 30 40 50 60 70 80 90 100 110
Vulnerabilities with Fixlets by Date Detected - CVSS
200
150
100
50
0
2021/03
CVSS2
N/A
High
Medium
Low
Date
2015
2025

BIGFIX

Right-click on Plugin ID to drill down

* BigFix data

Vulnerability List - 107 Rows

Vulnerability Title	Plugin ID	Applicable Devices	CVE List	CVSS2	CVSS3	VPR	VPR
Adobe Flash Player <= 23.0.0.207 Multiple Vulnerabilities (APSB16-39)	95762	1	CVE-2016-7867; CVE-2016-7868; CVE-2016-7869; CVE-2016-7870; C..	High	Critical	High	8.9
Adobe Flash Player <= 24.0.0.186 Multiple Vulnerabilities (APSB17-02)	96388	1	CVE-2017-2925; CVE-2017-2926; CVE-2017-2927; CVE-2017-2928; C..	High	Critical	High	8.9
Adobe Flash Player <= 24.0.0.194 Multiple Vulnerabilities (APSB17-04)	97142	1	CVE-2017-2982; CVE-2017-2984; CVE-2017-2985; CVE-2017-2986; C..	High	Critical	High	8.9
Adobe Flash Player <= 25.0.0.127 Multiple Vulnerabilities (APSB17-10)	99283	1	CVE-2017-3058; CVE-2017-3059; CVE-2017-3060; CVE-2017-3061; C..	High	Critical	High	7.4
Adobe Flash Player <= 25.0.0.148 Multiple Vulnerabilities (APSB17-15)	100052	1	CVE-2017-3068; CVE-2017-3069; CVE-2017-3070; CVE-2017-3071; C..	High	Critical	High	8.9
Adobe Flash Player <= 25.0.0.171 Multiple Vulnerabilities (APSB17-17)	100756	1	CVE-2017-3075; CVE-2017-3076; CVE-2017-3077; CVE-2017-3078; C..	High	Critical	High	8.9
Adobe Flash Player <= 26.0.0.131 Multiple Vulnerabilities (APSB17-21)	101362	1	CVE-2017-3080; CVE-2017-3099; CVE-2017-3100	High	Critical	High	8.9
Adobe Flash Player <= 26.0.0.137 Multiple Vulnerabilities (APSB17-23)	102262	1	CVE-2017-3085; CVE-2017-3106	High	High	Medium	6.7
Adobe Flash Player <= 26.0.0.151 Multiple Vulnerabilities (APSB17-28)	103124	1	CVE-2017-11281; CVE-2017-11282	High	Critical	High	8.9
Adobe Flash Player <= 27.0.0.183 (APSB17-33)	104544	1	CVE-2017-11213; CVE-2017-11215; CVE-2017-11225; CVE-2017-311..	High	Critical	Medium	6.7
Adobe Flash Player <= 28.0.0.137 Use-after-free Remote Code Execution (A..	106606	1	CVE-2018-4877; CVE-2018-4878	High	Critical	High	9.6
Adobe Flash Player <= 28.0.0.161 (APSB18-05)	108281	1	CVE-2018-4919; CVE-2018-4920	High	Critical	Medium	6.7
Adobe Flash Player <= 29.0.0.113 (APSB18-08)	108958	1	CVE-2018-4932; CVE-2018-4933; CVE-2018-4934; CVE-2018-4935; C..	High	Critical	High	8.9
Adobe Flash Player <= 29.0.0.171 (APSB18-19)	110397	1	CVE-2018-4945; CVE-2018-5000; CVE-2018-5001; CVE-2018-5002	High	Critical	High	9.2
Adobe Flash Player <= 30.0.0.134 (APSB18-25)	111683	2	CVE-2018-12824; CVE-2018-12825; CVE-2018-12826; CVE-2018-12827; CVE-2018-12828	High	Critical	Medium	6.7
Adobe Flash Player <= 31.0.0.148 (APSB18-44)	119094	3	CVE-2018-15981	High	Critical	Medium	5.9
Adobe Flash Player <= 31.0.0.153 (APSB18-42)	119462	3	CVE-2018-15982; CVE-2018-15983	High	Critical	High	9.7
Adobe Flash Player <= 32.0.0.156 (APSB19-19)	123938	3	CVE-2019-7096; CVE-2019-7108	High	Critical	Medium	5.9
Adobe Flash Player Unsupported Version Detection	59196	3	Null	High		N/A	0
KB4018483: Security update for Adobe Flash Player (April 2017)	99290	1	CVE-2017-3058; CVE-2017-3059; CVE-2017-3060; CVE-2017-3061; C..	High	Critical	High	7.4
KB4020821: Security update for Adobe Flash Player (May 2017)	100062	1	CVE-2017-3068; CVE-2017-3069; CVE-2017-3070; CVE-2017-3071; C..	High	Critical	High	8.9

BIGFIX

Vulnerability Device Summary

* BigFix data

Vulnerability Title	Plugin ID	CVE List	CVSS2	CVSS3	VPR	VPR Score	Published D..	Solution
Adobe Flash Player <= 26.0.0.151 Multiple Vulnerabilities (APSB17-28)	103124	CVE-2017-11281; CVE-2017-11282	High	Critical	High	8.9	09/12/2017	Upgrade to Adobe Fla

Right-click on Device ID to drill down

Vulnerability Device Detail - 1 Rows

* Device Name Detail	Device ID	* OS	* IP Address	* Type	ACR	AES	* Last Report Time
WIN-RL485TV7252	1076613427-2	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM

BIGFIX

Device Detail Summary

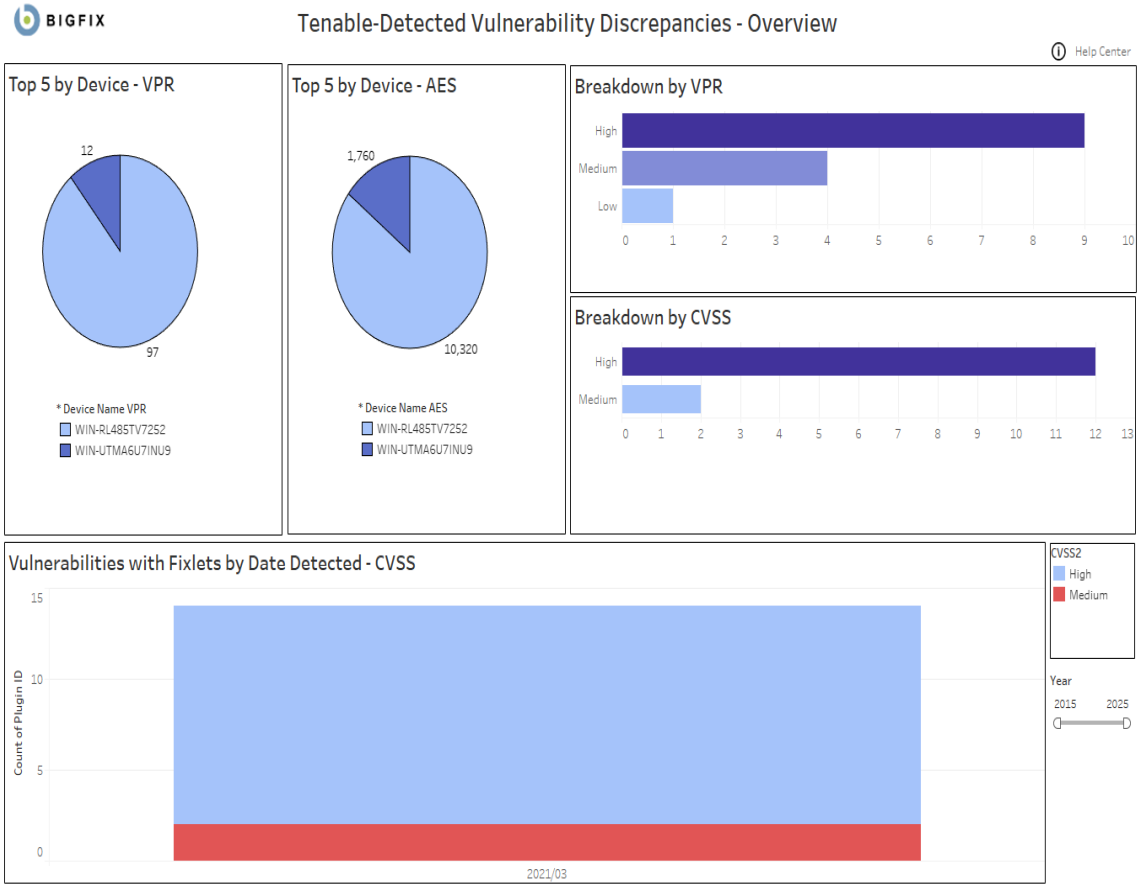
* BigFix data

* Device Name Detail	Device ID	* IP Address	* OS	* Type	ACR	AES	* Last Report Time
WIN-RL485TV7252	1076613427-2	10.134.146.46	Win2012R2 6.3.9600	Server	7.35	860	4/1/2021 9:03:51 PM

Vulnerability Detail - 178 Rows

Vulnerability Title	Plugin ID	CVE List	CVSS2	CVSS3	VPR	VPR Score	Publi
Adobe Flash Player <= 23.0.0.207 Multiple Vulnerabilities (APSB16-39)	95762	CVE-2016-7867; CVE-2016-7868; CVE-2016-7869; CVE-2016-7..	High	Critical	High	8.9	12/1
Adobe Flash Player <= 24.0.0.186 Multiple Vulnerabilities (APSB17-02)	96388	CVE-2017-2925; CVE-2017-2926; CVE-2017-2927; CVE-2017-2..	High	Critical	High	8.9	01/1
Adobe Flash Player <= 24.0.0.194 Multiple Vulnerabilities (APSB17-04)	97142	CVE-2017-2982; CVE-2017-2984; CVE-2017-2985; CVE-2017-2..	High	Critical	High	8.9	02/1
Adobe Flash Player <= 25.0.0.127 Multiple Vulnerabilities (APSB17-10)	99283	CVE-2017-3058; CVE-2017-3059; CVE-2017-3060; CVE-2017-3..	High	Critical	High	7.4	04/1
Adobe Flash Player <= 25.0.0.148 Multiple Vulnerabilities (APSB17-15)	100052	CVE-2017-3068; CVE-2017-3069; CVE-2017-3070; CVE-2017-3..	High	Critical	High	8.9	05/0
Adobe Flash Player <= 25.0.0.171 Multiple Vulnerabilities (APSB17-17)	100756	CVE-2017-3075; CVE-2017-3076; CVE-2017-3077; CVE-2017-3..	High	Critical	High	8.9	06/1
Adobe Flash Player <= 26.0.0.131 Multiple Vulnerabilities (APSB17-21)	101362	CVE-2017-3080; CVE-2017-3099; CVE-2017-3100	High	Critical	High	8.9	07/0
Adobe Flash Player <= 26.0.0.137 Multiple Vulnerabilities (APSB17-23)	102262	CVE-2017-3085; CVE-2017-3106	High	High	Medium	6.7	08/0
Adobe Flash Player <= 26.0.0.151 Multiple Vulnerabilities (APSB17-28)	103124	CVE-2017-11281; CVE-2017-11282	High	Critical	High	8.9	09/1
Adobe Flash Player <= 27.0.0.159 Type Confusion Vulnerability (APSB17-32)	103922	CVE-2017-11292	Medium	High	High	8.9	10/1
Adobe Flash Player <= 27.0.0.183 (APSB17-33)	104544	CVE-2017-11213; CVE-2017-11215; CVE-2017-11225; CVE-201..	High	Critical	Medium	6.7	11/1
Adobe Flash Player <= 27.0.0.187 (APSB17-42)	105175	CVE-2017-11305	Medium	High	Low	3.6	12/1
Adobe Flash Player <= 28.0.0.126 (APSB18-01)	105691	CVE-2018-4871	Medium	High	Low	3.6	01/0
Adobe Flash Player <= 28.0.0.137 Use-after-free Remote Code Execution (APSA18-01) ..	106606	CVE-2018-4877; CVE-2018-4878	High	Critical	High	9.6	02/0
Adobe Flash Player <= 28.0.0.161 (APSB18-05)	108281	CVE-2018-4919; CVE-2018-4920	High	Critical	Medium	6.7	03/1
Adobe Flash Player <= 29.0.0.113 (APSB18-08)	108958	CVE-2018-4932; CVE-2018-4933; CVE-2018-4934; CVE-2018-4..	High	Critical	High	8.9	04/1
Adobe Flash Player <= 29.0.0.171 (APSB18-19)	110397	CVE-2018-4945; CVE-2018-5000; CVE-2018-5001; CVE-2018-5..	High	Critical	High	9.2	06/0

- **Vulnerability Discrepancies**


BIGFIX
Tenable-Detected Vulnerability Discrepancies - Overview
Help Center
Top 5 by Device - VPR
12
97
* Device Name VPR
WIN-RL485TV7252
WIN-UTMA6U7INU9
Top 5 by Device - AES
1,760
10,320
* Device Name AES
WIN-RL485TV7252
WIN-UTMA6U7INU9
Breakdown by VPR
High
Medium
Low
0 1 2 3 4 5 6 7 8 9 10
Breakdown by CVSS
High
Medium
0 1 2 3 4 5 6 7 8 9 10 11 12 13
Vulnerabilities with Fixlets by Date Detected - CVSS
Count of Plugin ID
15
10
5
0
2021/03
CVSS2
High
Medium
Year
2015
2025

BIGFIX

Right-click on Plugin ID to drill down

Vulnerability Discrepancies List - 4 Rows

* BigFix data

Vulnerability Title	Plugin ID	Applicable ..	CVE List	CVSS2	CVSS3	VPR	VPR Score	Detected D..	Published D..	Product/Fa..	* Fixlet Title	* Fixl
Adobe Flash Player <= 32.0.0.371 (APSB20-30)	137253	1	CVE-2020-9..	High	Critical	Medium	5.9	3/8/2021	06/09/2020	Windows	MS20-OCT: Security Update for Adobe Flas..	4580
								3/20/2021	06/09/2020	Windows	MS20-OCT: Security Update for Adobe Flas..	4580
KB4537759: Security update for Adobe Flash Player (February 2020)	133618	1	CVE-2020-3..	High	High	Medium	5.9	3/8/2021	02/11/2020	Windows	MS20-OCT: Security Update for Adobe Flas..	4580
								3/20/2021	02/11/2020	Windows	MS20-OCT: Security Update for Adobe Flas..	4580

BIGFIX

Vulnerability Discrepancies Device Summary

* BigFix Data

Vulnerability Title	Plugin ID	Applicable ..	CVE List	CVSS2	CVSS3	VPR	VPR Score	Detected D..	Published D..	Product/Fa..	* Fixlet Title
KB4537759: Security update for Adobe Flash Player (February 2020)	133618	1	CVE-2020-3757	High	High	Medium	5.9	3/8/2021	02/11/2020	Windows	MS20-OCT: Security Update
								3/20/2021	02/11/2020	Windows	MS20-OCT: Security Update

Right-click on Device Name to drill down

Vulnerability Discrepancies Device Detail - 2 Rows

Detected Date	DeviceID	* Device Name Detail	* OS	* IP Address	* Type	ACR	AES	* Last Report Time
3/8/2021	10373101-1	WIN-UTMA6U7INU9	Win2019 10.0.17763.107 (1809)	172.17.128.1..	Server	8.14	880	4/1/2021 9:03:48 PM
3/20/2021	1076613427-2	WIN-RL485TV7252	Win2012R2 6.3.9600	10.134.146.46	Server	7.35	860	4/1/2021 9:03:51 PM

BIGFIX

Tenable-Detected Vulnerability Discrepancies - Device Summary

*BigFix data

DeviceID	* Device Name Detail	* IP Address	* OS	* Type	ACR	AES	* Last Report Time
10373101-1	WIN-UTMA6U7INU9	172.17.128.1..	Win2019 10.0.17763.107 (1809)	Server	8.14	880	4/1/2021 9:03:48 PM

Tenable-Detected Vulnerability Discrepancies - Vulnerability Detail - 2 Rows

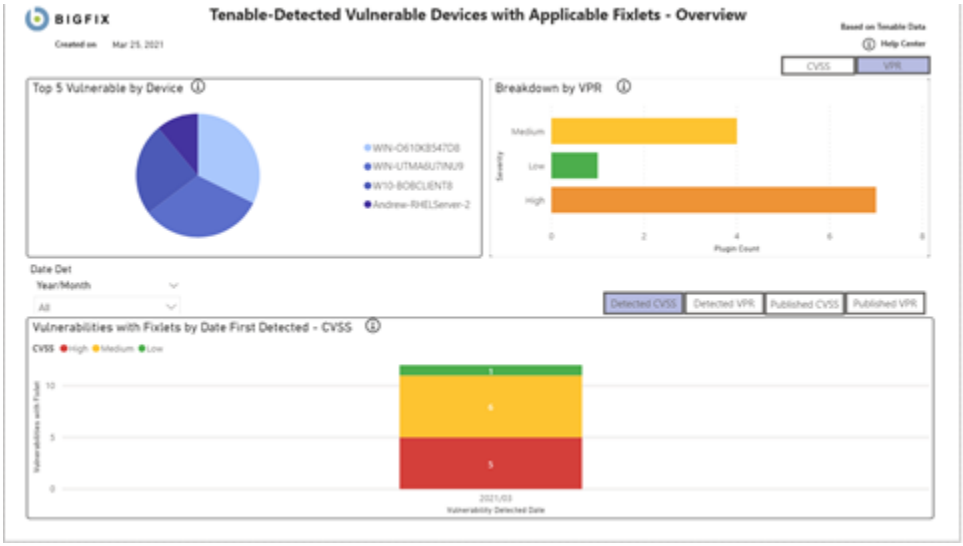
Vulnerability Title	Plugin ID	Applicable ..	CVE List	CVSS2	CVSS3	VPR	VPR Score	Detected Date	Published D..	Product/Fa..	* Fixlet Title	* Fixlet ID	* Fixlet Site
Adobe Flash Playe..	137253	1	CVE-2020-9..	High	Critical	Medium	5.9	3/8/2021	06/09/2020	Windows	MS20-OCT: Security Update for Ado..	458032515	Patches for ..
KB4537759: Secur..	133618	1	CVE-2020-3..	High	High	Medium	5.9	3/8/2021	02/11/2020	Windows	MS20-OCT: Security Update for Ado..	458032515	Patches for ..

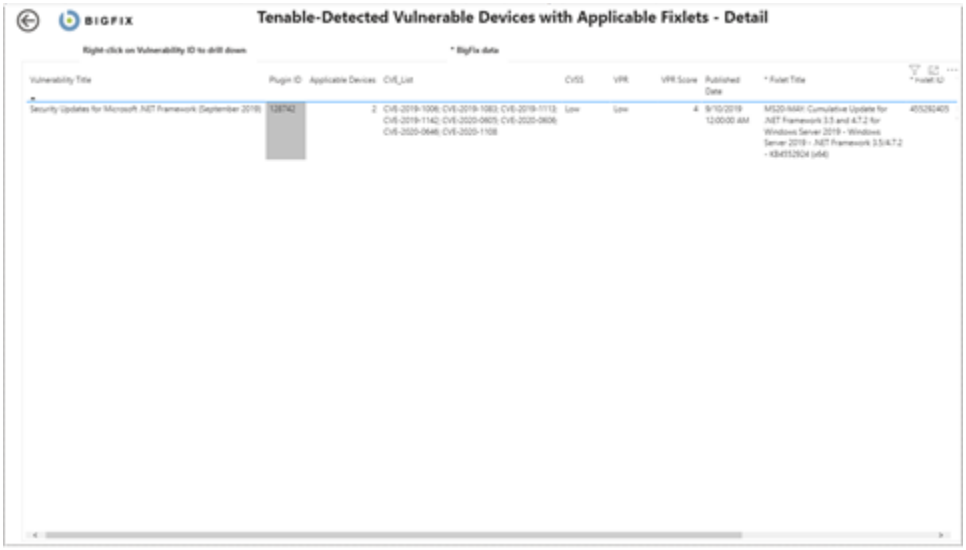
BI reports for Tenable.sc

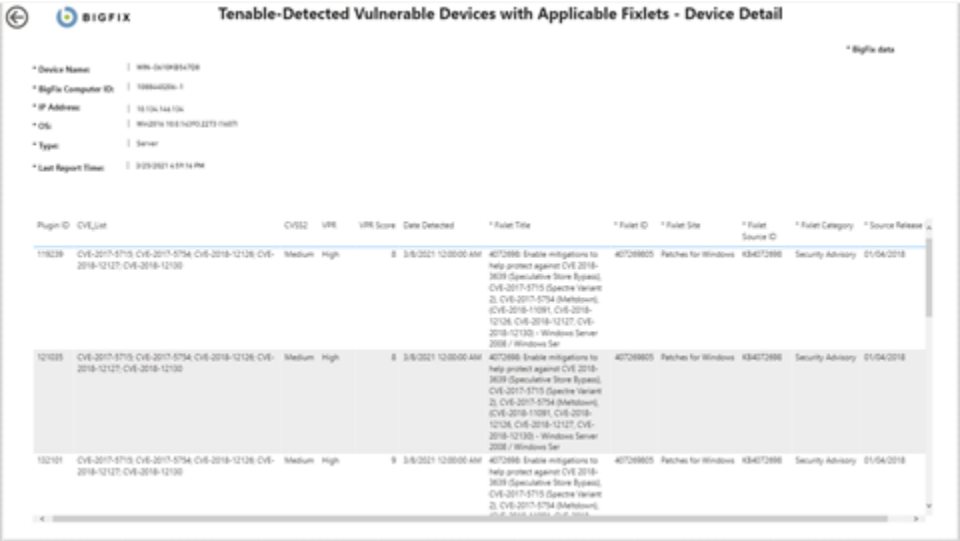
Get familiar with Power BI and Tableau reports for Tenable.sc.

Power BI reports

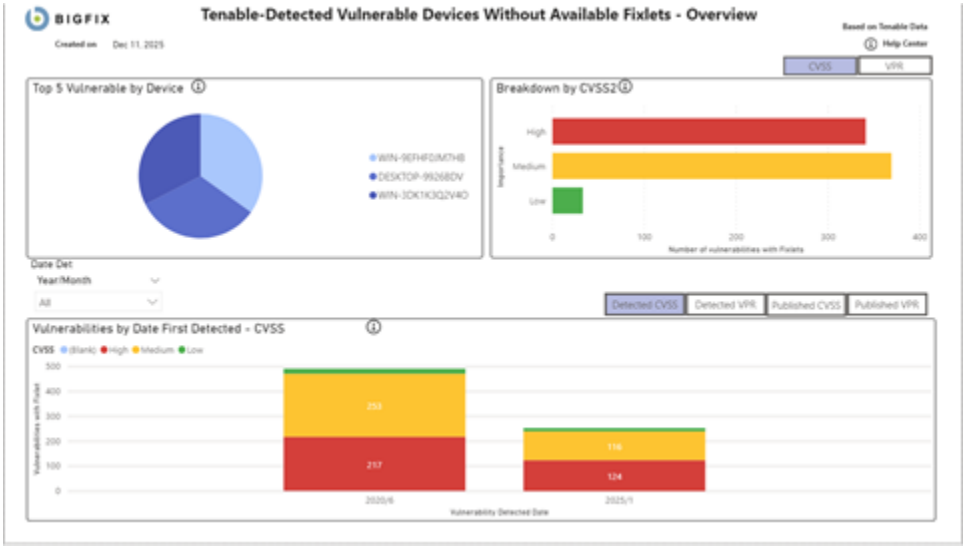
- **Detected Vulnerabilities with Applicable Fixlets**





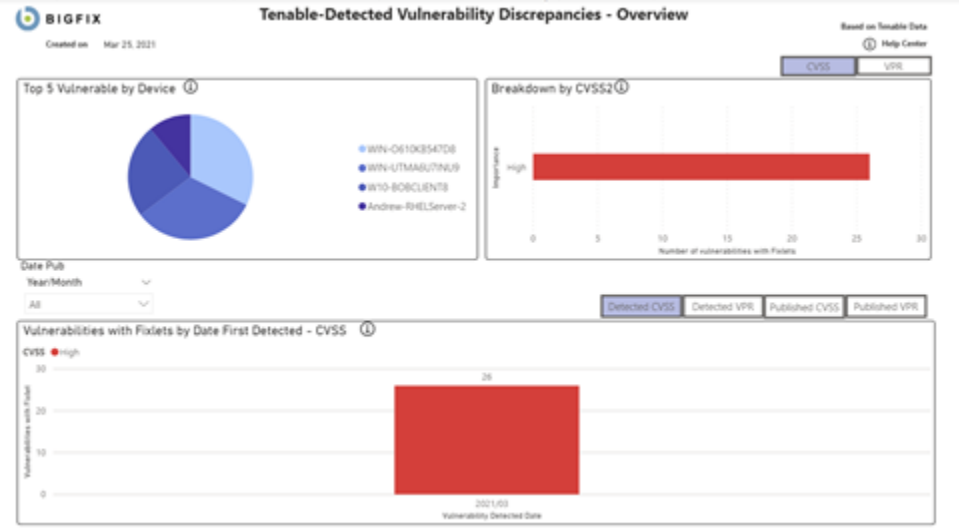


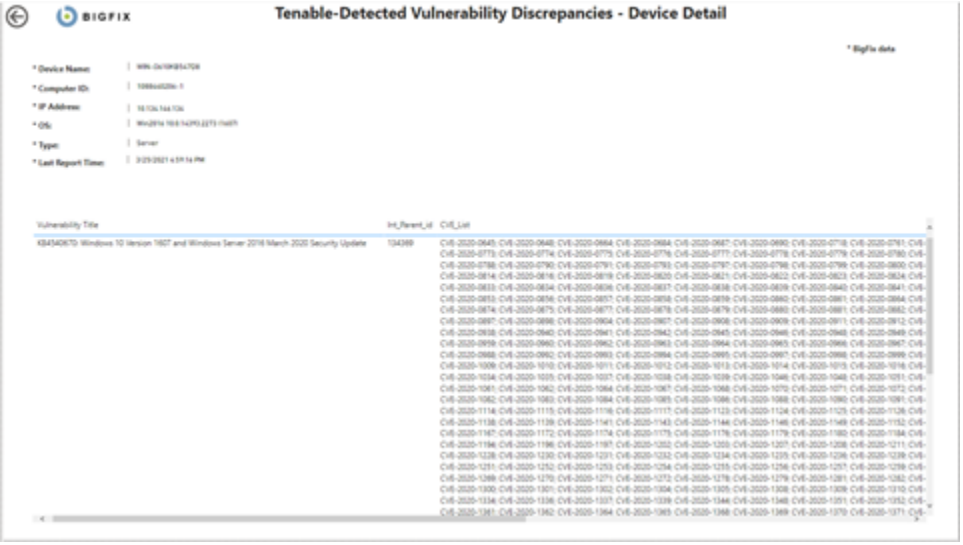
- **Detected Vulnerabilities without Available Fixlets**



Vulnerability Title	Plugin ID	CVSS2	CVSS3	Severity	VPR Score	Applicable_Devices	Published Date
ZyXEL P650R12 Default Credentials Detected	38702	High	High	Medium	5	1	4/25/2018 12:00:00 AM
VMware ESXi 6.0 Patch Release ESXi600-201909101-SG Missing(VMSA-2019-0014)	216210	High	High	Low	3	1	11/14/2019 12:00:00 AM
Visual Studio Code Remote Code Execution Vulnerability	371756	High	High	Medium	4	1	4/29/2019 12:00:00 AM
Ubuntu Security Notification for Oxide-qt Vulnerabilities (USN-2570-1)	196074	High		Low	3	1	5/11/2015 12:00:00 AM
Ubuntu Security Notification for Linux, Linux-aws, Linux-lts-trusty, Linux-raspi2, Linux-snapdragon Vulnerabilities (USN-4095-1)	197574	High	Critical	Low	3	1	6/16/2019 12:00:00 AM
Ubuntu Security Notification for Linux, Linux-aws, Linux-lts-trusty Vulnerabilities (USN-4091-1)	197918	High	Medium	Low	3	1	6/16/2020 12:00:00 AM
Ubuntu Security Notification for Firefox Vulnerabilities (USN-2295-1)	195567	High		Medium	4	1	12/12/2014 12:00:00 AM
Trend Micro Mobile Security (Enterprise) Multiple Vulnerabilities	87302	High	Critical	Medium	5	1	10/9/2017 12:00:00 AM
Synactis AX_IN_THE_BOX ActiveX Control Null byte File Overwrite Vulnerability	116179	High		Medium	4	1	2/5/2009 12:00:00 AM
Symantec Endpoint Protection Multiple Security Vulnerabilities (SYM15-007)	123784	High		Medium	4	1	8/4/2015 12:00:00 AM
SUSE Security Update for Multiple Packages (SUSE-SR:2010:010)	165229	High		Medium	5	1	6/21/2011 12:00:00 AM
SUSE Security Update for libxml2 (openSUSE-SU-2013:0729-1)	166154	High		Medium	4	1	10/15/2013 12:00:00 AM
SUSE Security Update for Kernel (SUSE-SA:2008:052)	165016	High	High	Low	3	1	8/7/2009 12:00:00 AM
SUSE Security Update for FlashPlayer (SUSE-SA:2008:041)	165158	High		Low	3	1	8/25/2010 12:00:00 AM
SUSE Enterprise Linux Security Update for wireshark (SUSE-SU-2017:1174-1)	169964	High	High	Low	3	1	5/10/2017 12:00:00 AM
SUSE Enterprise Linux Security Update for qemu (SUSE-SU-2018:4129-1)	171778	High	Critical	Low	3	1	12/18/2018 12:00:00 AM
SUSE Enterprise Linux Security update for php53 (SUSE-SU-2015:1818-1)	168137	High	High	Medium	4	1	10/28/2015 12:00:00 AM
SUSE Enterprise Linux Security Update for php5 (SUSE-SU-2016:1603-1)	169005	High	Critical	Low	3	1	7/27/2016 12:00:00 AM
SUSE Enterprise Linux Security Update for netatalk (SUSE-SU-2018:4217-1)	171798	High	Critical	Medium	4	1	12/27/2018 12:00:00 AM
SUSE Enterprise Linux Security update for MozillaFirefox, mozilla-nspr, mozilla-nss (SUSE-SU-2016:0727-1)	168558	High	Critical	Medium	4	1	3/16/2016 12:00:00 AM
Sendmail 8.8.0/8.8.1 MIME Buffer Overflow Vulnerability	74121	High		Medium	5	1	8/6/2002 12:00:00 AM
Red Hat Update for thunderbird (RHSA-2018:2251)	236904	High	Critical	Medium	4	1	7/26/2018 12:00:00 AM
Red Hat Update for thunderbird (RHSA-2018:1726)	236833	High	Critical	Medium	4	1	5/29/2018 12:00:00 AM
Red Hat Update for Thunderbird (RHSA-2011:1198)	118514	High		Medium	5	1	8/17/2011 12:00:00 AM
Red Hat Update for setroubleshoot (RHSA-2015:0728)	123491	High		Low	3	1	3/30/2015 12:00:00 AM
Red Hat Update for rh-nodejs10-nodejs (RHSA-2020:3084)	236486	High	High	Medium	4	1	7/23/2020 12:00:00 AM
Red Hat Update for libpng (RHSA-2015:2596)	124097	High	High	Low	3	1	12/14/2015 12:00:00
Total						124	

- **Vulnerability Discrepancies**




BIGFIX
Tenable-Detected Vulnerability Discrepancies - Device Detail
* BigFix data
* Device Name:
* Computer ID:
* IP Address:
* OS:
* Type:
* Last Report Time:
Vulnerability Title
Int_Parent_id
CVE_List


BIGFIX
Tenable-Detected Vulnerability Discrepancies - Vulnerability Detail
* BigFix data
Vulnerability Title:
Plugin ID:
Published Date:
CVSS:
VPR:
VPR Score:
* Fixlet Title:
* Fixlet ID:
* Fixlet Site:
* Fixlet Source ID:
* Fixlet Category:
* Source Release Date:
Right-click on Device ID to drill down
Date Detected
* BigFix Computer ID
* Computer Name
* OS
IP Address
Device Type
Last Report Time

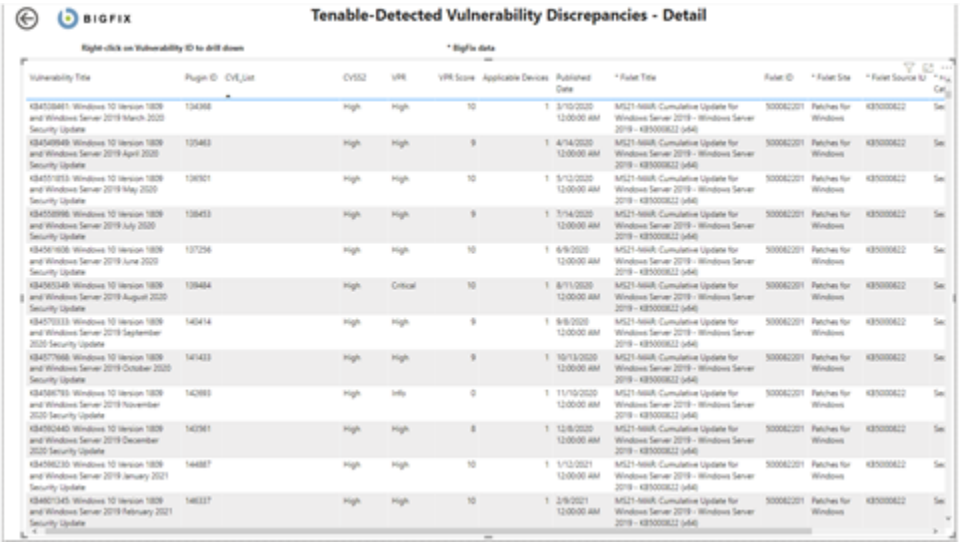
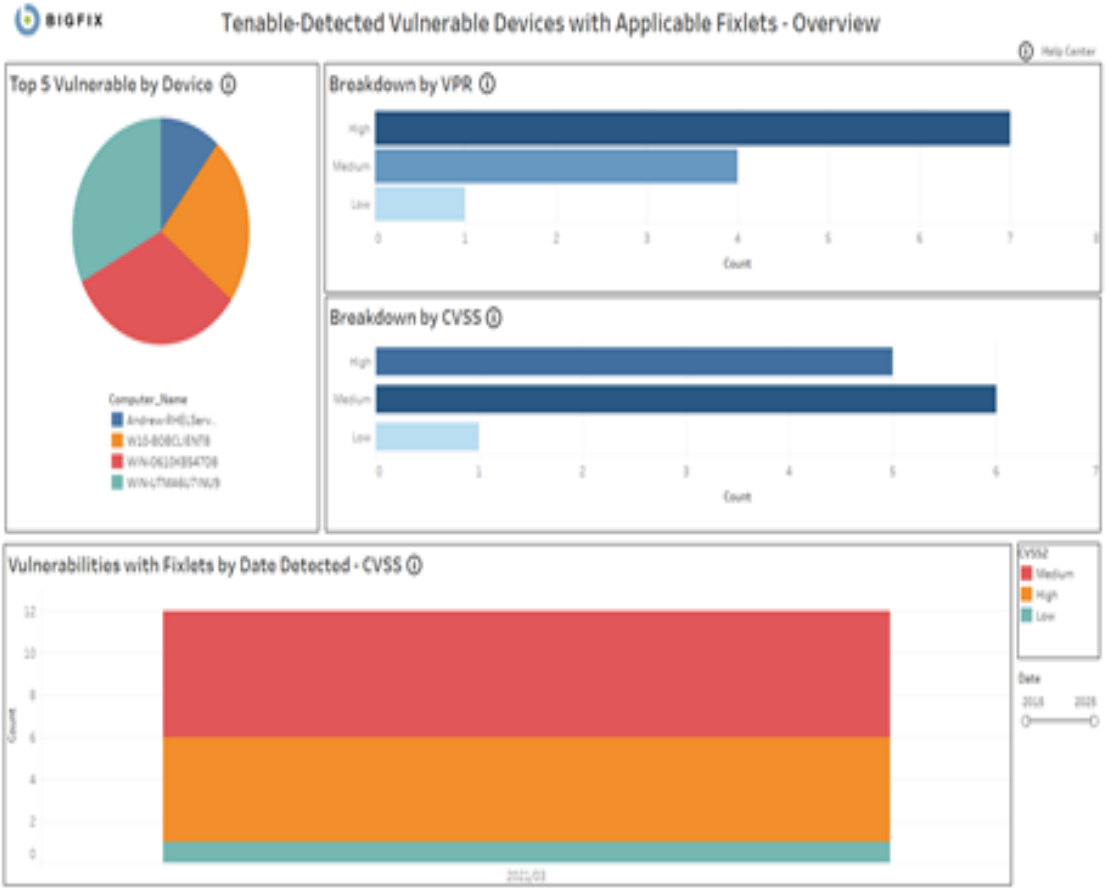
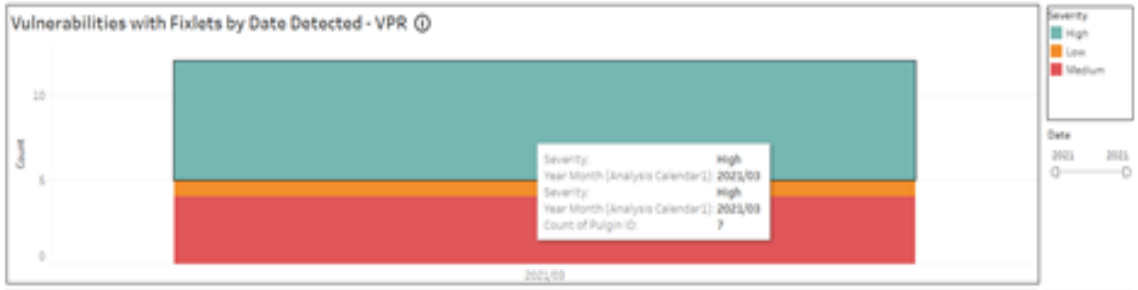


Tableau reports

- **Detected Vulnerabilities with Applicable Fixlets**





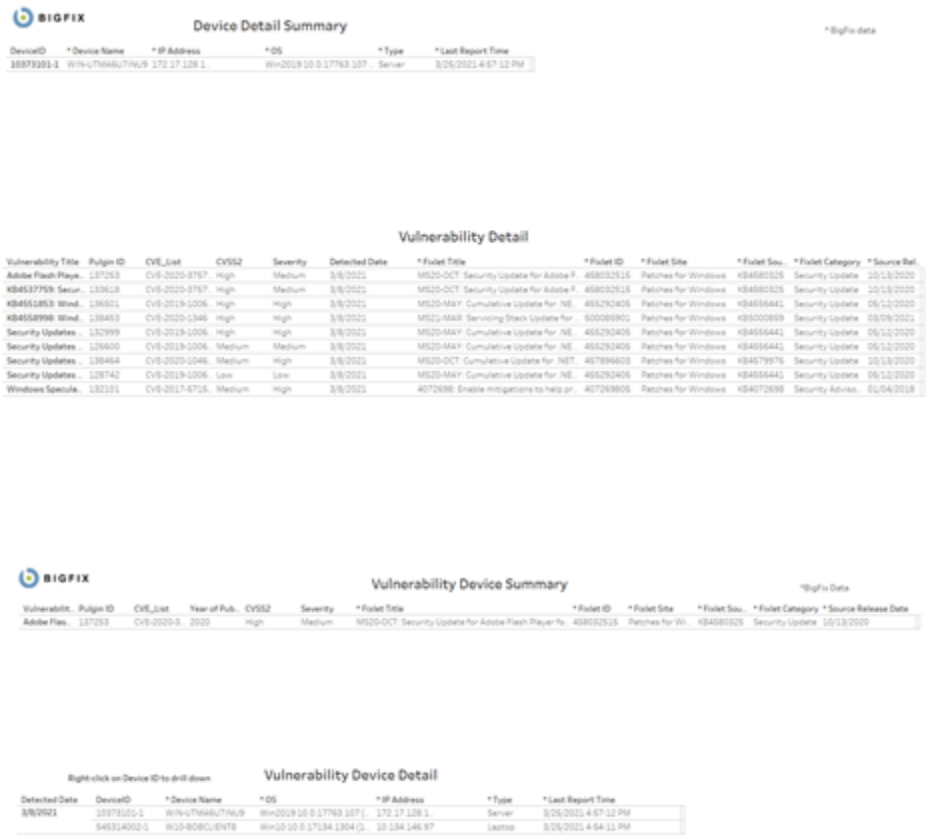
BIGFIX

Tenable-Detected Vulnerability List - Detail

Right-click on Plugin ID to drill down

*BigFix data

Vulnerabilit...	Pulgin ID	CVE_List	CVSS2	Severity	Applicable Devices	Year of Pub...	*Fixlet Title	*Fixlet ID	*Fixlet Sou...	*Fixlet Site	*Fixlet Category	*Source Rel...
Adobe Flas...	137253	CVE-2020-3757	High	Medium	2	2020	MS20-OCT Security Update for A...	458032516	KB4580325	Patches for Windows	Security Update	10/13/2020
KB4537759...	139418	CVE-2020-3757	High	Medium	2	2020	MS20-OCT Security Update for A...	458032516	KB4580325	Patches for Windows	Security Update	10/13/2020
KB4551853...	136501	CVE-2019-1006...	High	High	1	2020	MS20-MAY Cumulative Update f...	455292405	KB4556441	Patches for Windows	Security Update	05/12/2020
KB4558998...	138453	CVE-2020-1346	High	High	1	2020	MS21-MAR Servicing Stack Upd...	500085901	KB5000859	Patches for Windows	Security Update	03/09/2021
Security Up...	132999	CVE-2019-1006...	High	High	2	2020	MS20-MAY Cumulative Update f...	455292405	KB4556441	Patches for Windows	Security Update	05/12/2020



BIGFIX

Device Detail Summary

* BigFix data

DeviceID	* Device Name	* IP Address	* OS	* Type	* Last Report Time
10373101-1	WIN-UTM46U7INU9	172.17.128.1...	Win2019 10.0.17763.107...	Server	3/26/2021 4:57:12 PM

Vulnerability Detail

Vulnerability Title	Pulgin ID	CVE_List	CVSS2	Severity	Detected Date	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou...	* Fixlet Category	* Source Rel.
Adobe Flash Playe...	137253	CVE-2020-3757...	High	Medium	3/8/2021	MS20-OCT: Security Update for Adobe F...	458032516	Patches for Windows	KB4580325	Security Update	10/13/2020
KB4537759: Secur...	130618	CVE-2020-3757...	High	Medium	3/8/2021	MS20-OCT: Security Update for Adobe F...	458032516	Patches for Windows	KB4580325	Security Update	10/13/2020
KB4561853: Wind...	136501	CVE-2019-1006...	High	High	3/8/2021	MS20-MAY: Cumulative Update for .NE...	465292406	Patches for Windows	KB4556441	Security Update	05/12/2020
KB4558998: Wind...	138453	CVE-2020-1346	High	High	3/8/2021	MS21-MAR: Servicing Stack Update for ...	500089901	Patches for Windows	KB5000859	Security Update	03/09/2021
Security Updates ...	132999	CVE-2019-1006...	High	High	3/8/2021	MS20-MAY: Cumulative Update for .NE...	465292406	Patches for Windows	KB4556441	Security Update	05/12/2020
Security Updates ...	126600	CVE-2019-1006...	Medium	Medium	3/8/2021	MS20-MAY: Cumulative Update for .NE...	465292406	Patches for Windows	KB4556441	Security Update	05/12/2020
Security Updates ...	138464	CVE-2020-1046...	Medium	High	3/8/2021	MS20-OCT: Cumulative Update for .NET...	467896603	Patches for Windows	KB4579976	Security Update	10/13/2020
Security Updates ...	128742	CVE-2019-1006...	Low	Low	3/8/2021	MS20-MAY: Cumulative Update for .NE...	465292406	Patches for Windows	KB4556441	Security Update	05/12/2020
Windows Specula...	132101	CVE-2017-5715...	Medium	High	3/8/2021	4072698: Enable mitigations to help pr...	407269805	Patches for Windows	KB4072698	Security Advisor...	01/04/2018

BIGFIX

Vulnerability Device Summary

*BigFix Data

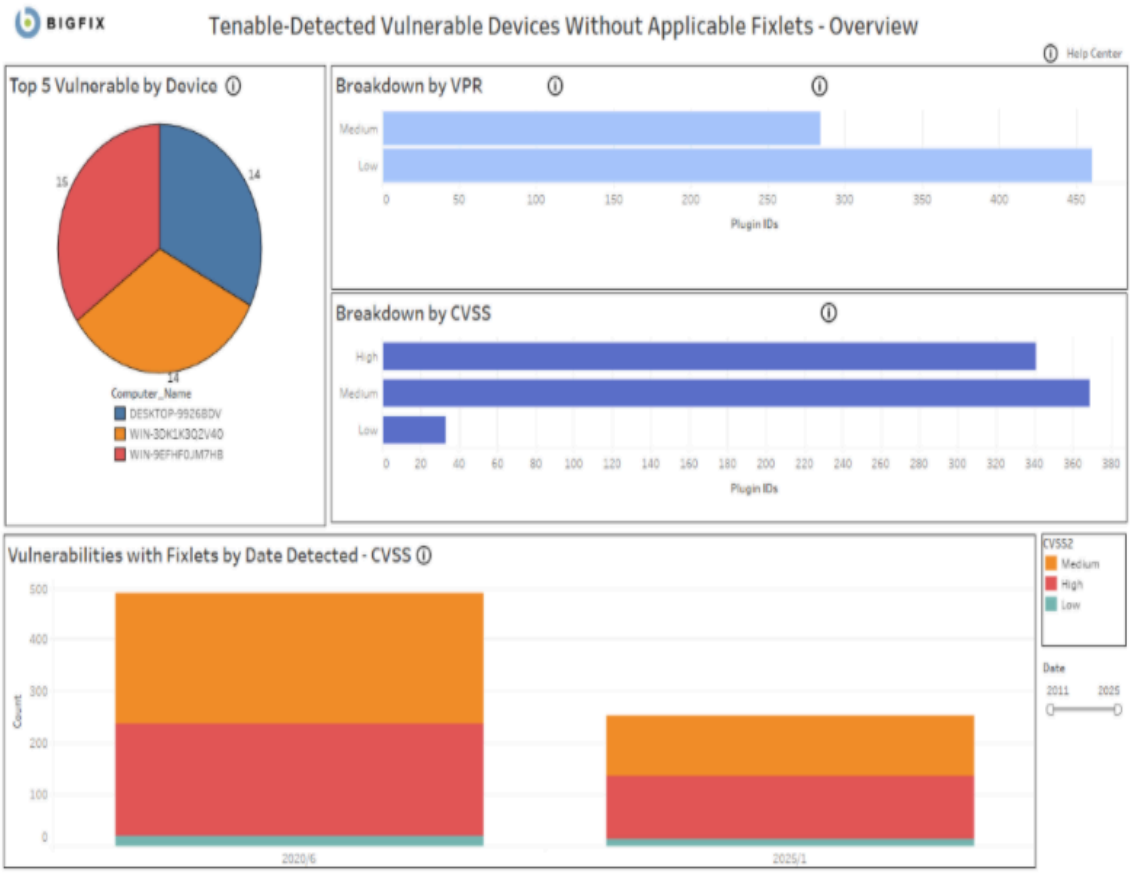
Vulnerabilit...	Pulgin ID	CVE_List	Year of Pub...	CVSS2	Severity	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou...	* Fixlet Category	* Source Release Date
Adobe Flas...	137253	CVE-2020-3...	2020	High	Medium	MS20-OCT: Security Update for Adobe Flash Player fo...	458032516	Patches for Wi...	KB4580325	Security Update	10/13/2020

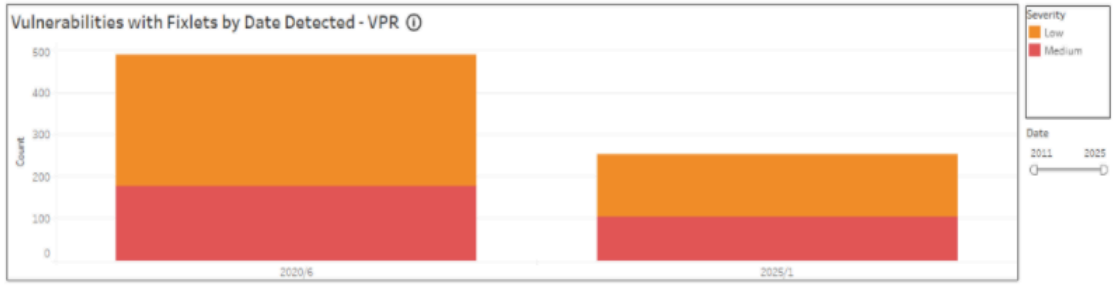
Right-click on Device ID to drill down

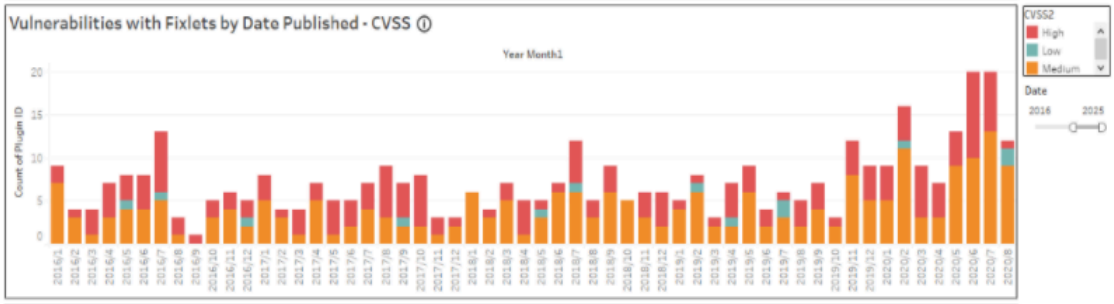
Vulnerability Device Detail

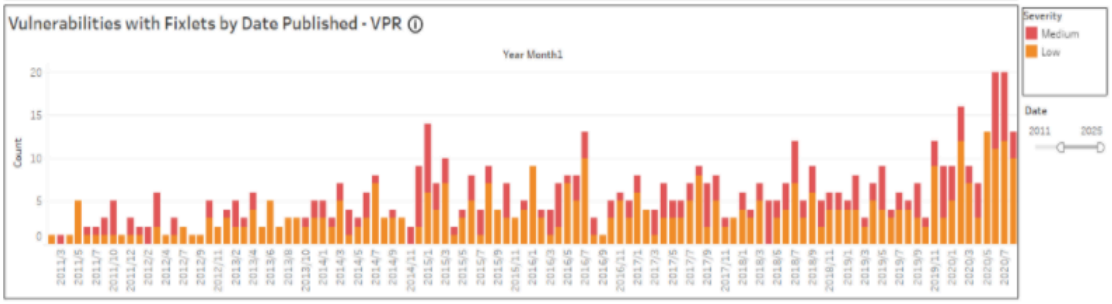
Detected Date	DeviceID	* Device Name	* OS	* IP Address	* Type	* Last Report Time
3/8/2021	10373101-1	WIN-UTM46U7INU9	Win2019 10.0.17763.107 (...	172.17.128.1...	Server	3/26/2021 4:57:12 PM
	546314002-1	W10-B08CJJ6NT8	Win10 10.0.17134.1304 (1...	10.134.146.97	Laptop	3/26/2021 4:54:11 PM

- **Detected Vulnerabilities without Available Fixlets**


BIGFIX
Tenable-Detected Vulnerable Devices Without Applicable Fixlets - Overview
Help Center
Top 5 Vulnerable by Device
15
14
14
Computer_Name
DESKTOP-9926BDV
WIN-3DK1K3QZV40
WIN-9EFHF0JM7HB
Breakdown by VPR
Medium
Low
0 50 100 150 200 250 300 350 400 450
Plugin IDs
Breakdown by CVSS
High
Medium
Low
0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300 320 340 360 380
Plugin IDs
Vulnerabilities with Fixlets by Date Detected - CVSS
500
400
300
200
100
0
Count
2020/6
2025/1
CVSS2
Medium
High
Low
Date
2011
2025


Vulnerabilities with Fixlets by Date Detected - VPR
Count
500
400
300
200
100
0
2020/6
2025/1
Severity
Low
Medium
Date
2011
2025


Vulnerabilities with Fixlets by Date Published - CVSS
Year Month1
Count of Plugin ID
20
15
10
5
0
CVSS2
High
Low
Medium
Date
2016
2025


Vulnerabilities with Fixlets by Date Published - VPR
Year Month1
Count
20
15
10
5
0
Severity
Medium
Low
Date
2011
2025

BIGFIX

Right-click on Plugin ID to drill down

* BigFix data

Vulnerability List

Vulnerability Title	Plugin ID	CVSS2	Severity	Applicable_..	Year of Pub..
Amazon Linux Security Advisory for dbus:ALAS-2019-1246	351628	Low	Medium	1	2019
Amazon Linux Security Advisory for quagga:ALAS-2012-070	350677	Low	Low	1	2016
Atlassian Fisheye and Crucible Cross-Site Scripting Vulnerablity (CRUC-8381,FE-7163,CRUC-8380,FE-..	13422	Low	Low	1	2019
CentOS Security Update for libvirt (CESA-2012:1202)	120674	Low	Low	1	2012
CentOS Security Update for libvirt test (CESA-2011:0478)	119287	Low	Low	1	2011
CentOS Security Update for OpenSSH (CESA-2007:0257)	117547	Low	Low	1	2010
CentOS Security Update for PAM (CESA-2007:0465)	117515	Low	Low	1	2010
CentOS Security Update for qemu-kvm (CESA-2017:1856)	256277	Low	Medium	1	2017
CentOS Security Update for util-linux-ng (CESA-2013:0517)	121109	Low	Low	1	2013
Debian Security Update for mailman (DSA 4246-1)	176429	Low	Low	1	2018
Drupal core File Module Cross Site Scripting Vulnerability (SA-CORE-2019-004)	13453	Low	Low	1	2019
Fedora Security Update for libunwind (FEDORA-2015-11465)	124023	Low	Low	1	2015
Fedora Security Update for qemu (FEDORA-2016-1b264ab4a4)	276023	Low	Low	1	2016
Fedora Security Update for slapi-nis (FEDORA-2014-1442)	122951	Low	Low	1	2015
Fedora Security Update for sudo (FEDORA-2015-2247)	123347	Low	Low	1	2015
Fedora Security Update for xen (FEDORA-2016-da6b1d277b)	276264	Low	Low	1	2016
iPlanet Calendar Server Plaintext Admin Password Vulnerablity	86154	Low	Medium	1	2001
McAfee VirusScan 4.0.3 Alert File Vulnerability	38313	Low	Low	1	2004
OpenSuSE Security Update for libvirt (openSUSE-SU-2014:0010-1)	166705	Low	Low	1	2014
OpenSuSE Security Update for llvm (openSUSE-SU-2015:0245-1)	167600	Low	Low	1	2015
OpenSuSE Security Update for XWayland (openSUSE-SU-2015:1095-1)	167944	Low	Low	1	2015
Oracle Enterprise Linux Security Update for libgcrypt (ELSA-2013-1457)	156707	Low	Low	1	2014
Oracle Enterprise Linux Security Update for qemu-kvm (ELSA-2019-1650)	158022	Low	Low	1	2019
PostNuke Cross Site Scripting Vulnerability	10543	Low	Low	1	2002
Red Hat Update for OpenShift Container Platform 4.5.4 jenkins-2-plugins (RHSA-2020:3207)	238533	Low	Low	1	2020
Skype Technologies Skype URI Handling Remote File Download Vulnerability	38547	Low	Low	1	2006
SUSE Enterprise Linux Security Update for dbus-1 (SUSE-SU-2014:0846-1)	167211	Low	Low	1	2014
SUSE Enterprise Linux Security Update for libapr1 (SUSE-SU-2018:1322-1)	171132	Low	Low	1	2018
SUSE Enterprise Linux Security Update for Wireshark (SUSE-SU-2012:0792-1)	165499	Low	Low	1	2012
SUSE Security Update for libqt4 (openSUSE-SU-2013:0404-1)	165870	Low	Low	1	2013

BIGFIX

Device Detail Summary

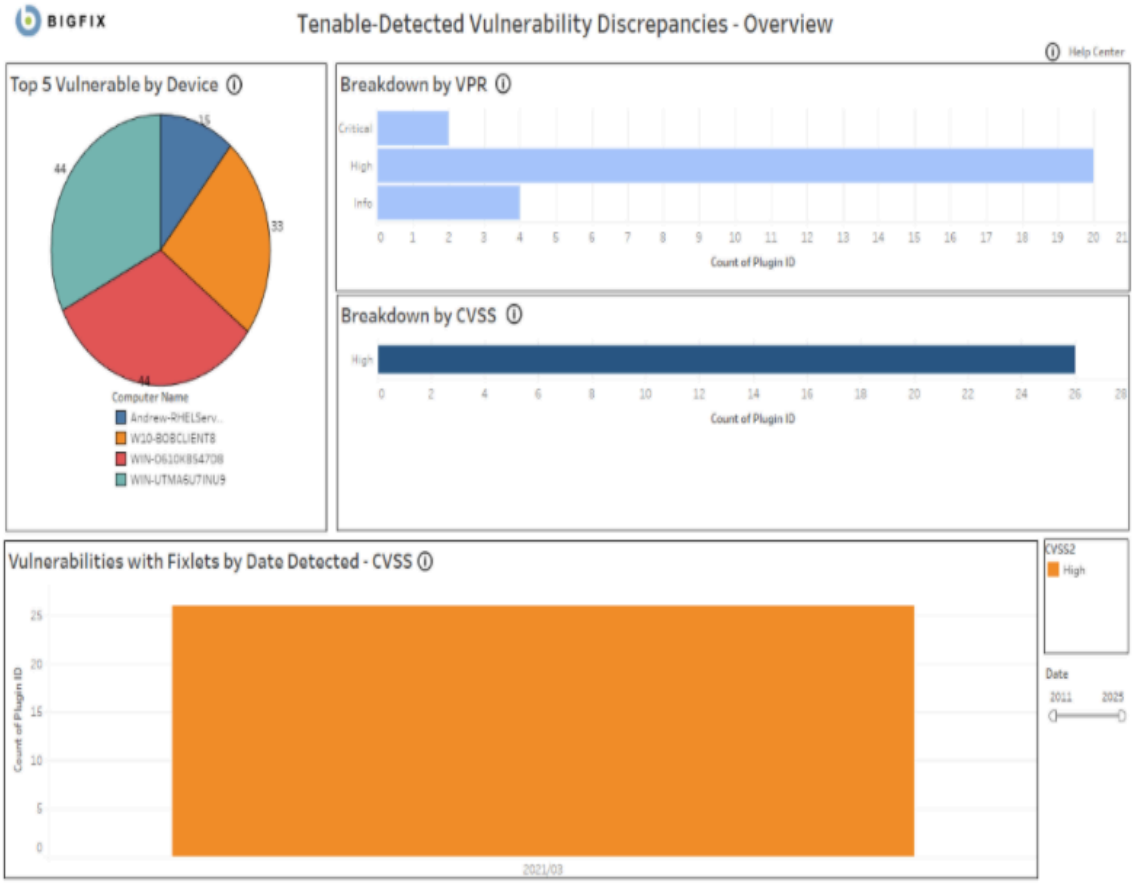
* BigFix data

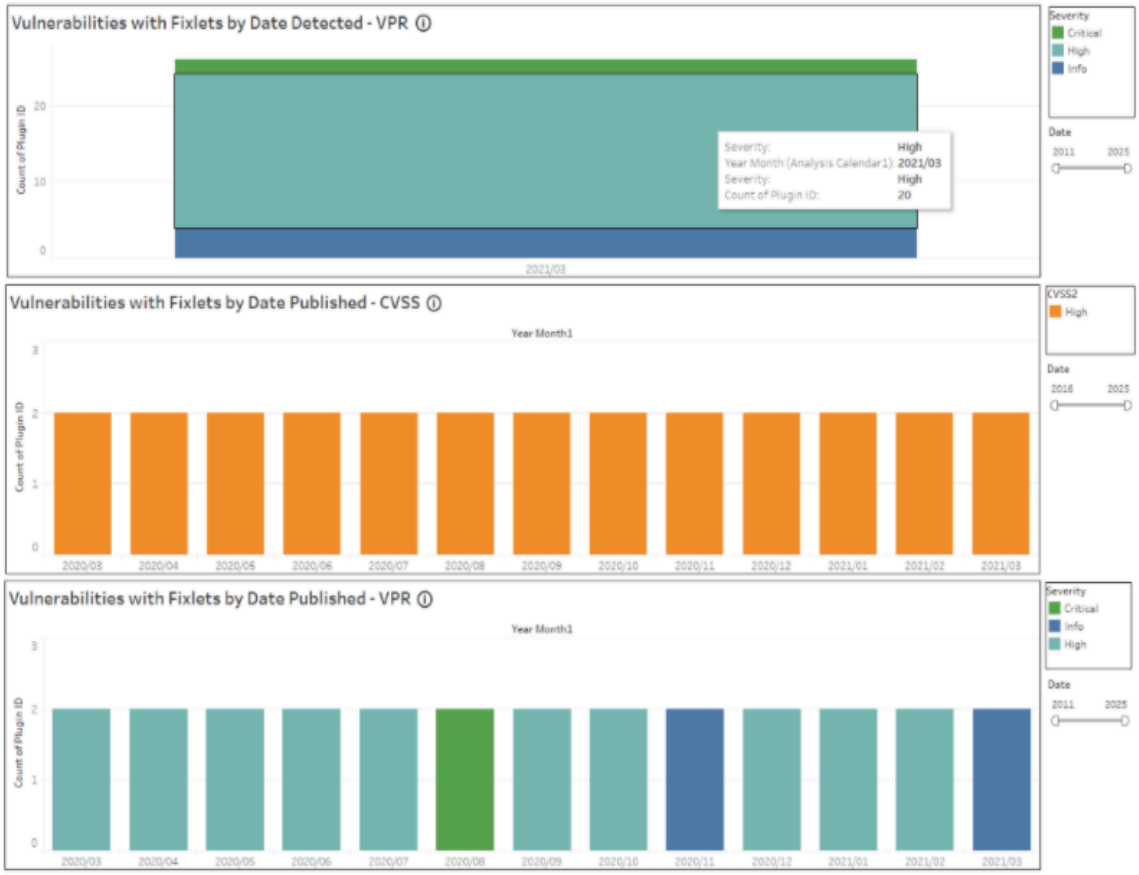
* Device Name	DeviceID	* IP Address	* OS	* Type	* Last Report Time
WIN-9EFHF0JM7HB	14456361-1	10.134.146.136	Win2016 10.0.14393.188..	Server	2/16/2021 4:11:07 PM

Vulnerability Detail

Vulnerability Title	Plugin ID	CVSS2	Severity	Detected Date
ActivePerl UTF-8 Denial of Service Vulnerability	116904	Medium	Low	1/1/2025
Adobe Flash Player SWF File Unspecified Remote Code Execution Vulnerability	115811	High	Medium	6/16/2020
Adobe Reader and Acrobat Multiple Vulnerabilities (APSB16-26)	370084	High	Medium	6/16/2020
Amazon Linux Security Advisory for dbus:ALAS-2019-1246	351628	Low	Medium	6/16/2020
Amazon Linux Security Advisory for gc:ALAS-2013-245	350499	Medium	Low	1/1/2025
Amazon Linux Security Advisory for golang_docker:ALAS-2015-588	350114	High	Low	6/16/2020
Amazon Linux Security Advisory for mod_security:ALAS-2014-335	350393	Medium	Low	6/16/2020
Amazon Linux Security Advisory for perl-YAML-LibYAML:AL2012-2015-056	350775	Medium	Low	6/16/2020
Amazon Linux Security Advisory for ruby20:ALAS-2015-547	350155	Medium	Low	6/16/2020
Apple QuickTime Prior to 7.7.5 Multiple Vulnerabilities (APPLE-SA-2014-02-25-3)	121819	High	Medium	6/16/2020
Atlassian JIRA Multiple Security Vulnerability (JRASERVER-69784,JRASERVER-69783,JRASERVER-69782,JRASERVER-..	13609	Medium	Low	6/16/2020
Atlassian Jira Server and Data Center Improper Authorization Vulnerability(JRASERVER-70526)	13831	Medium	Low	6/16/2020
CentOS Security Update for Firefox (CESA-2012:1210)	120578	High	Medium	1/1/2025
CentOS Security Update for firefox (CESA-2017:0558)	256179	High	Medium	1/1/2025
CentOS Security Update for firefox Security Update (CESA-2018:2693)	256482	High	Medium	1/1/2025
CentOS Security Update for flatpak (CESA-2019:0375)	256573	Medium	Medium	1/1/2025
CentOS Security Update for Ghostscript (CESA-2012:0096)	120039	Medium	Low	6/16/2020
CentOS Security Update for HelixPlayer (CESA-2010:0094)	116908	High	Low	6/16/2020

- **Vulnerability Discrepancies**





BIGFIX

Right-click on Plugin ID to drill down

Tenable-Detected Vulnerability Discrepancies - Detail

* BigFix data

Vulnerabilit...	Plugin ID	CVE_List	CVSS2	Severity	Applicable_...	Year of Pub...	* Fixlet Title	* Fixlet ID	* Fixlet Sou...	* Fixlet Site	* Fixlet Category	* Source Rel...
KB4586793...	142693	CVE-2020-0...	High	Info	1	2020	MS21-MAR: Cumulative Update for Windo...	500082201	KB5000822	Patches for Windows	Security Update	03/09/2021
KB4586830...	142690	CVE-2020-0...	High	Info	1	2020	MS21-MAR: Cumulative Update for Windo...	500080303	KB5000803	Patches for Windows	Security Update	03/09/2021
KB5000803...	147222	CVE-2020-0...	High	Info	1	2021	MS21-MAR: Cumulative Update for Windo...	500080303	KB5000803	Patches for Windows	Security Update	03/09/2021
KB5000822...	147223	CVE-2020-0...	High	Info	1	2021	MS21-MAR: Cumulative Update for Windo...	500082201	KB5000822	Patches for Windows	Security Update	03/09/2021

BIGFIX

Tenable-Detected Vulnerability Discrepancies - Device Summary

*BigFix data

DeviceID	* Device Name	* IP Address	* OS	* Type	* Last Report Time
10373101-1	WIN-UTMA6U7INU9	172.17.128.1..	Win2019 10.0.17763.107 (1809)	Server	3/25/2021 4:57:12 PM

Tenable-Detected Vulnerability Discrepancies - Vulnerability Detail

Vulnerability Title	Plugin ID	CVE_List	CVSS2	Severity	Detected Date	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou..	* Fixlet Category	* Source Rele..
KB4538461: Wind..	134368	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4549949: Wind..	135463	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4551853: Wind..	136501	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4558998: Wind..	138453	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4561608: Wind..	137256	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4565349: Wind..	139484	CVE-2020-0645; CVE-2..	High	Critical	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4570333: Wind..	140414	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4577668: Wind..	141433	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4586793: Wind..	142693	CVE-2020-0645; CVE-2..	High	Info	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4592440: Wind..	143561	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4598230: Wind..	144887	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4601345: Wind..	146337	CVE-2020-0645; CVE-2..	High	High	3/8/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB5000822: Wind..	147223	CVE-2020-0645; CVE-2..	High	Info	3/12/2021	MS21-MAR: Cumulative Update for ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021

BIGFIX

Tenable-Detected Vulnerability Discrepancies - Device Summary

* BigFix Data

Vulnerabilit..	Plugin ID	CVE_List	Year of Pub..	CVSS2	Severity	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou..	* Fixlet Category	* Source Rele..
KB4586793..	142693	CVE-2020-0645; CVE-2..	2020	High	Info	MS21-MAR: Cumulative Update for Windows ..	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021

Right-click on Device ID to drill down

Tenable-Detected Vulnerability Discrepancies - Device Detail

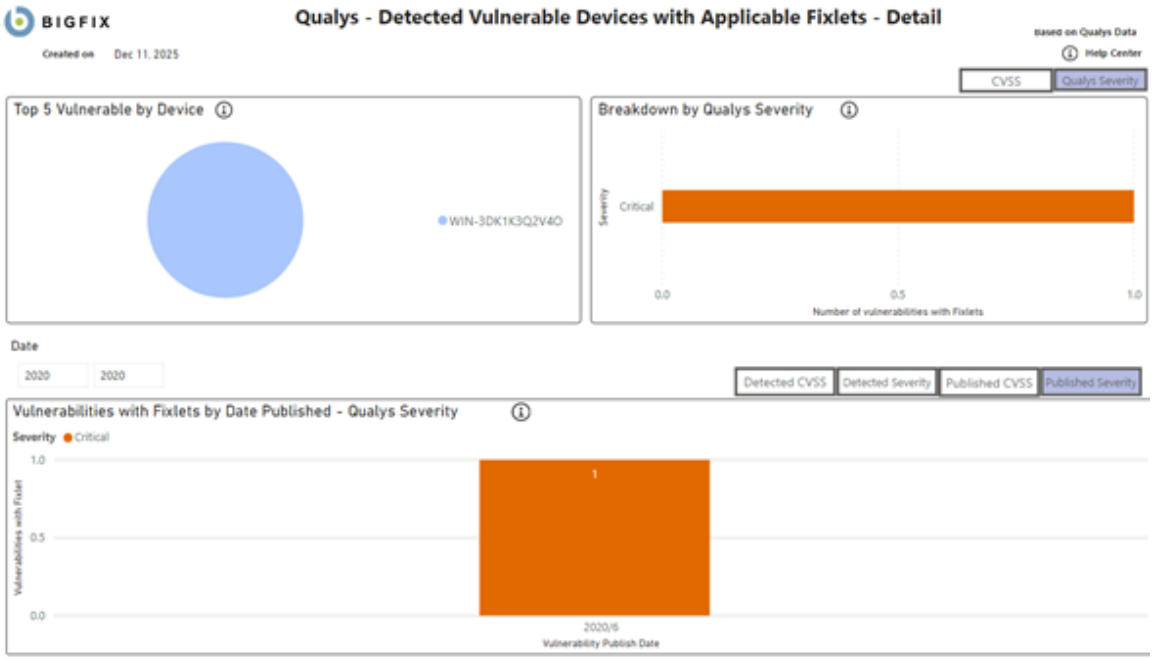
Detected Date	DeviceID	* Device Name	* OS	* IP Address	* Type	* Last Report Time
3/8/2021	10373101-1	WIN-UTMA6U7INU9	Win2019 10.0.17763.107 (1809)	172.17.128.1..	Server	3/25/2021 4:57:12 PM

BI reports for Qualys

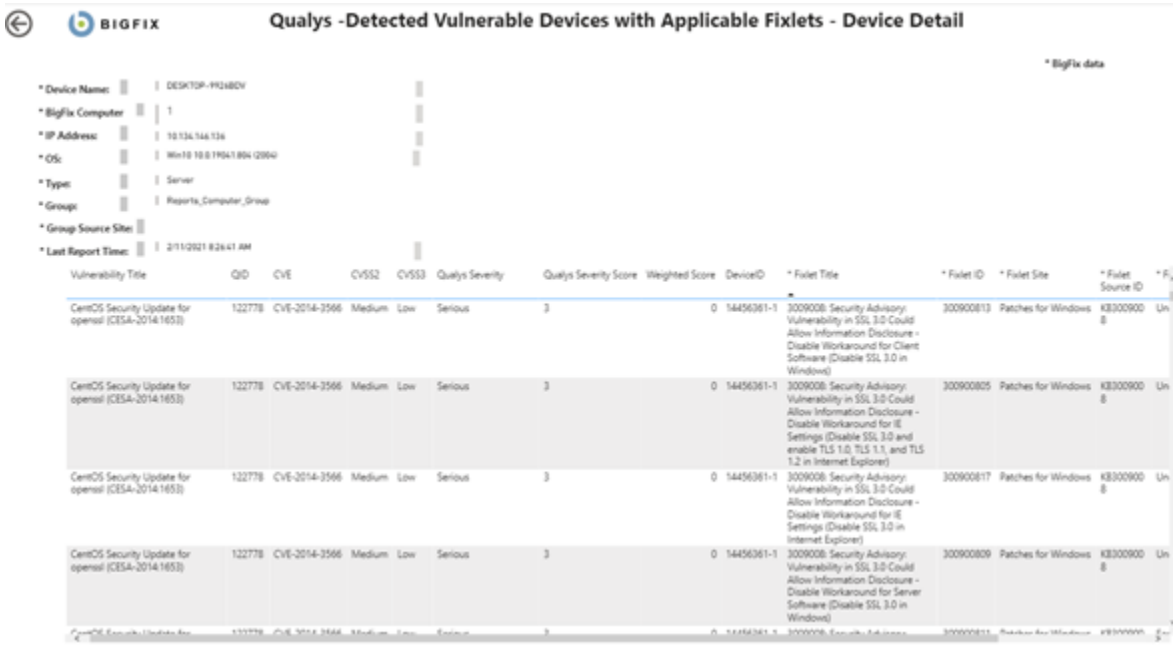
Get familiar with Power BI and Tableau reports for Qualys.

Power BI reports

- **Detected Vulnerabilities with Applicable Fixlets**



Vulnerability Title	Vulnerability ID	QID	CVSS	CVSS3	Qualys Severity	Qualys Severity Score	Weighted Score	Published Date	Detected Date	Applicable Devices	Product/Family
Red Hat Update for .NET Core on Red Hat Enterprise Linux 7 (RHSA-2020:2475)	CVE-2020-1108	238356	Low	High	Critical	4	3	6/15/2020	6/16/2020	1	Windows



BIGFIX

Qualys -Detected Vulnerable Devices with Applicable Fixlets - Device Detail

* BigFix data

* Device Name: DESKTOP-9926BDV
* BigFix Computer: 1
* IP Address: 10.134.146.136
* OS: Win10 10.0.19041.804 (2004)
* Type: Server
* Group: Reports_Computer_Group
* Group Source Site:
* Last Report Time: 2/11/2021 8:26:41 AM

Vulnerability Title	QID	CVE	CVSS2	CVSS3	Qualys Severity	Qualys Severity Score	Weighted Score	DeviceID	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Source ID	* F
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for Client Software (Disable SSL 3.0 in Windows)	300900813	Patches for Windows	KB3009008	Un
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for IE Settings (Disable SSL 3.0 and enable TLS 1.0, TLS 1.1, and TLS 1.2 in Internet Explorer)	300900805	Patches for Windows	KB3009008	Un
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for IE Settings (Disable SSL 3.0 in Internet Explorer)	300900817	Patches for Windows	KB3009008	Un
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for Server Software (Disable SSL 3.0 in Windows)	300900809	Patches for Windows	KB3009008	Un

BIGFIX

Qualys - Detected Vulnerable Devices with Applicable Fixlets - Device Detail

* BigFix data

Vulnerability Title: CentOS Security Update for openssl (CESA-2014:1653)
QID: 110168
Published Date: 9/8/2009

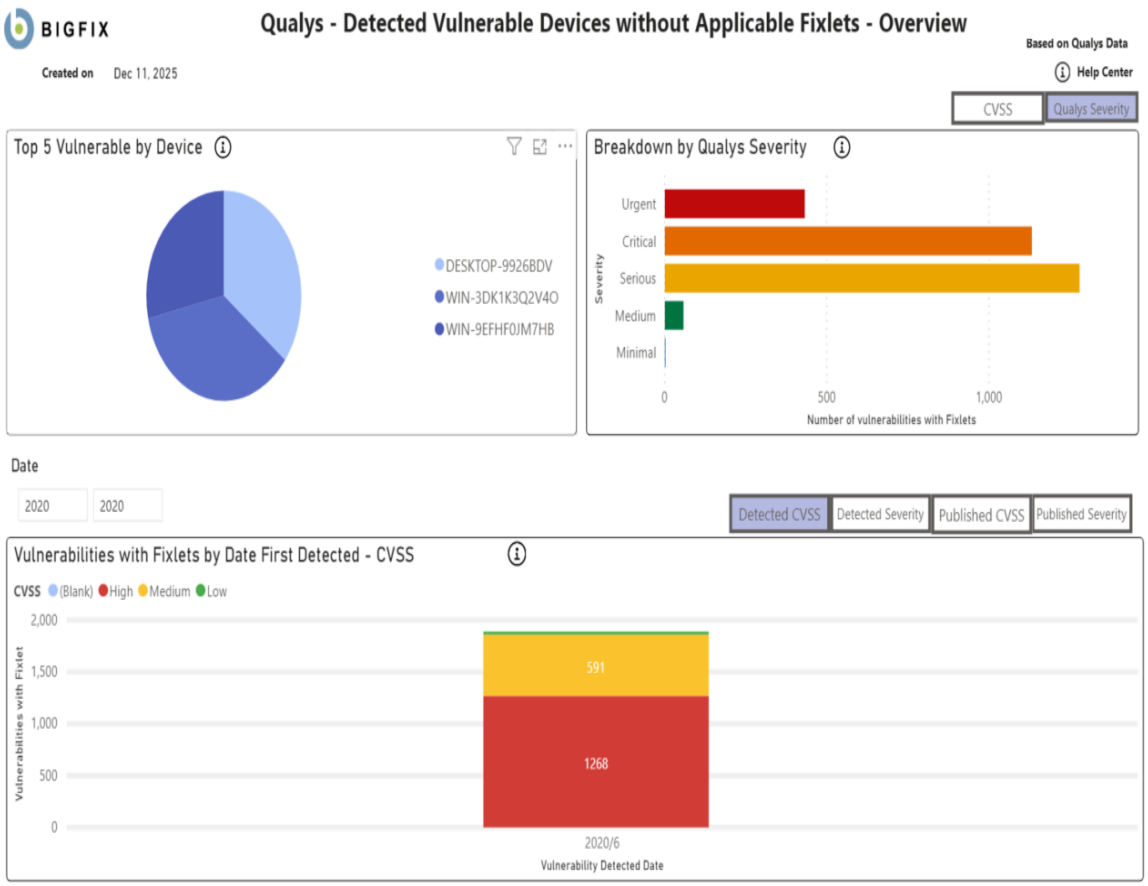
CVE: CVE-2009-0901
CVSS: High
Qualys Severity: Critical
Qualys Severity Score: 1

* Fixlet Title: 3009008: Security Advisory: Vulnerability in SSL 3.0 Could A
* Fixlet ID: 903505
* Fixlet Site: Patches for Windows
* Fixlet Source ID: KB2553376
* Fixlet Category: Critical Updates
* Source Release Date: 01/03/2018

Right-click on Device ID to drill down

Date Detected	BigFix Computer ID	Computer Name	OS	IP Address	Type	Group	Last Report Time
6/16/2020	1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	Reports_Computer_Group	2/11/2021 8:26:41 AM
1/1/2025	1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	Reports_Computer_Group	2/11/2021 8:26:41 AM
6/16/2020	3	WIN-3DK1K3QZV4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	Reports_Computer_Group	2/16/2021 4:05:18 PM
1/1/2025	3	WIN-3DK1K3QZV4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	Reports_Computer_Group	2/16/2021 4:05:18 PM
6/16/2020	2	WIN-9EFHFQMTH8	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	Reports_Computer_Group	2/16/2021 4:11:07 PM
1/1/2025	2	WIN-9EFHFQMTH8	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	Reports_Computer_Group	2/16/2021 4:11:07 PM

- **Detected Vulnerabilities without Available Fixlets**


BIGFIX
Qualys - Detected Vulnerable Devices without Applicable Fixlets - Overview
Created on Dec 11, 2025
Based on Qualys Data
Help Center
CVSS
Qualys Severity
Top 5 Vulnerable by Device
DESKTOP-9926BDV
WIN-3DK1K3Q2V4O
WIN-9EFHF0JM7HB
Breakdown by Qualys Severity
Urgent
Critical
Serious
Medium
Minimal
Severity
0
500
1,000
Number of vulnerabilities with Fixlets
Date
2020
2020
Detected CVSS
Detected Severity
Published CVSS
Published Severity
Vulnerabilities with Fixlets by Date First Detected - CVSS
CVSS (Blank) High Medium Low
2,000
1,500
1,000
500
0
Vulnerabilities with Fixlet
591
1268
2020/6
Vulnerability Detected Date

BIGFIX

Qualys - Detected Vulnerable Devices without Applicable Fixlets - Detail

Right-click on Vulnerability ID to drill down

*** BigFix data**

Vulnerability Title	Vulnerability ID	QID	CVSS	CVSS3	Weighted Score	Qualys Severity	Qualys Severity Score	Published Date	Detected Date	DeviceID	Solution
"sudeep" CGI Vulnerability	CVE-1999-0070	10015	Medium		5	Urgent	5	1/1/1999	6/16/2020	1627259-1	You should remove t
Sendmail 8.8.0/8.8.1 MIME Buffer Overflow Vulnerability	CVE-1999-0206	74121	High		10	Urgent	5	8/6/2002	1/1/2025	1622894162-1	Workaround:<BR& The /etc/sendmail.cf
CentOS Security Update for Squid (CESA-2005:415)	CVE-1999-0710	117917	High		7	Medium	2	4/16/2010	6/16/2020	1627259-1	To resolve this issue, ia64</A> <A
ISC BIND SIG Record Denial of Service (sig bug) Vulnerability	CVE-1999-0835	15023	High		10	Urgent	5	7/29/2002	6/16/2020	1622894162-1	The ISC (Internet Soft
McAfee VirusScan 4.0.3 Alert File Vulnerability	CVE-2000-0502	38313	Low		2	Serious	3	9/25/2004	1/1/2025	1627259-1	There are no solution
YaBB Arbitrary File Read Vulnerability	CVE-2000-0853	10107	Medium		5	Critical	4	1/1/1999	6/16/2020	1622894162-1	Upgrade to the latest
Lotus Domino SMTP Server ENVID Buffer Overflow and Denial of Service Vulnerability	CVE-2000-1047	74054	High		10	Urgent	5	11/8/2000	6/16/2020	1622894162-1	S.A.F.E.R recommend 10.lotus.com/ldd/r5fi
Lotus Domino Mail Server 'Policy' Buffer Overflow Vulnerability	CVE-2001-0260	50027	High		7	Urgent	5	2/20/2001	1/1/2025	14456361-1	Lotus has addressed
Datawizards FtpXQ Directory Traversal Vulnerability	CVE-2001-0293	27102	Medium		5	Serious	3	3/28/2001	6/16/2020	14456361-1	There are no vendor TARGET="_blar
IBM WebSphere/Net.Commerce Installation Directory Revealing	CVE-2001-0389	10976	Medium		5	Medium	2	12/31/2002	6/16/2020	14456361-1	Upgrade to the lastes site</A> for the

Qualys - Detected Vulnerable Devices without Applicable Fixlets - Device Detail

* BigFix data

Vulnerability Title: "sudeep" CGI Vulnerability

QID: 10005

Published Date: 1/1/1999

CVE: CVE-1999-0070

CVSS: (Blank)

Qualys Severity: Critical

Qualys Severity Score: 1

Right-click on Device ID to drill down

Date Detected	BigFix Computer ID	Computer Name	OS	IP Address	Device Type	Last Report Time
6/16/2020	1627259-1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	2/11/2021 8:26:41 AM
1/1/2025	1627259-1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	2/11/2021 8:26:41 AM
6/16/2020	1622894162-1	WIN-3DK1K3Q2V4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	2/16/2021 4:05:18 PM
1/1/2025	1622894162-1	WIN-3DK1K3Q2V4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	2/16/2021 4:05:18 PM
6/16/2020	14456361-1	WIN-9EFHF0JM7HB	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	2/16/2021 4:11:07 PM
1/1/2025	14456361-1	WIN-9EFHF0JM7HB	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	2/16/2021 4:11:07 PM

BIGFIX

Qualys -Detected Vulnerable Devices without Applicable Fixlets - Device Detail

* BigFix data

*** Device Name:** DESKTOP-9926BDV

*** BigFix Computer** 14456361-1

*** IP Address:** 10.134.146.136

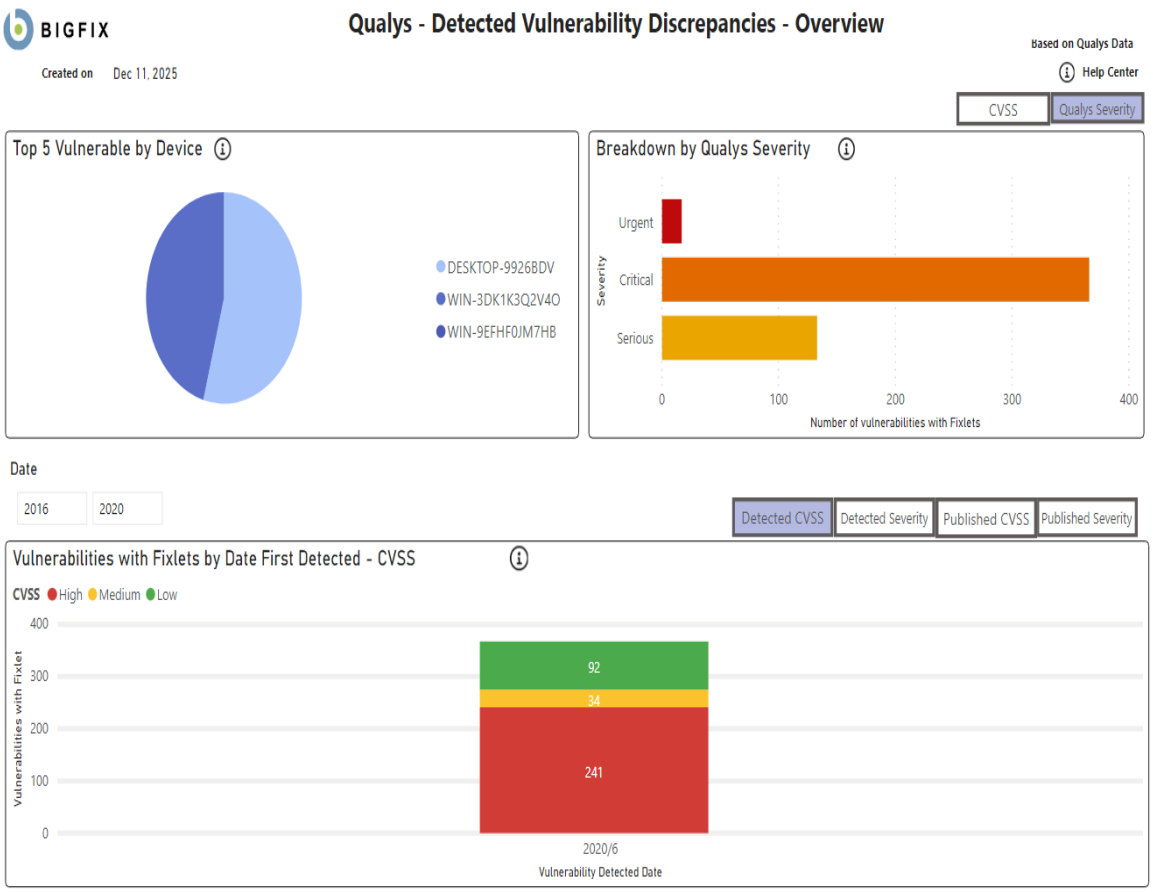
*** OS:** Win10 10.0.19041.804 (2004)

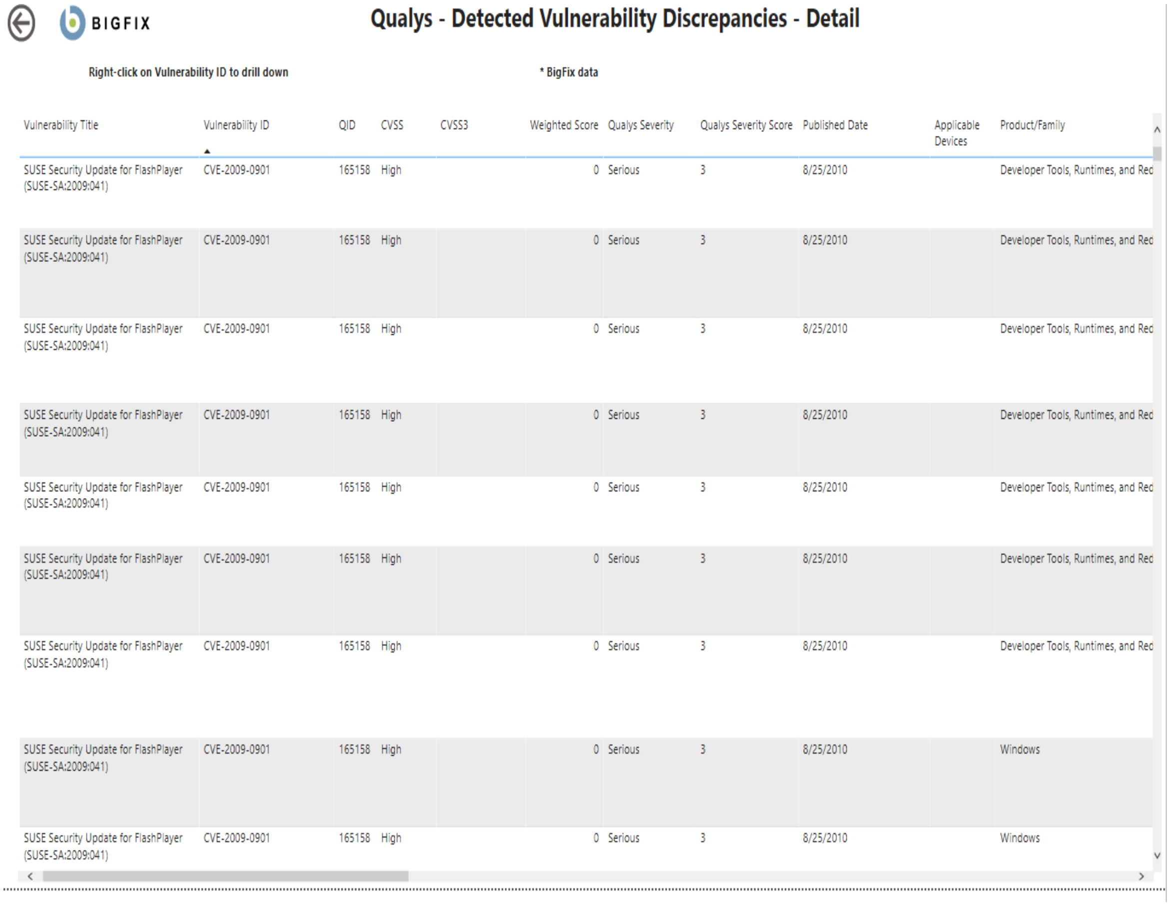
*** Type:** Server

*** Last Report Time:** 2/11/2021 8:26:41 AM

Vulnerability Title	QID	CVE	CVSS2	Qualys Severity	Qualys Severity Score	Detected Date
"sudeep" CGI Vulnerability	10015	CVE-1999-0070	Medium	Urgent	5	6/16/2020
Sendmail 8.8.0/8.8.1 MIME Buffer Overflow Vulnerability	74121	CVE-1999-0206	High	Urgent	5	1/1/2025
CentOS Security Update for Squid (CESA-2005:415)	117917	CVE-1999-0710	High	Medium	2	6/16/2020
ISC BIND SIG Record Denial of Service (sig bug) Vulnerability	15023	CVE-1999-0835	High	Urgent	5	6/16/2020
McAfee VirusScan 4.0.3 Alert File Vulnerability	38313	CVE-2000-0502	Low	Serious	3	1/1/2025
YaBB Arbitrary File Read Vulnerability	10107	CVE-2000-0853	Medium	Critical	4	6/16/2020
Lotus Domino SMTP Server ENVID Buffer Overflow and Denial of Service Vulnerability	74054	CVE-2000-1047	High	Urgent	5	6/16/2020
Lotus Domino Mail Server 'Policy' Buffer Overflow Vulnerability	50027	CVE-2001-0260	High	Urgent	5	1/1/2025
Datawizards FtpXQ Directory Traversal Vulnerability	27102	CVE-2001-0293	Medium	Serious	3	6/16/2020
IBM WebSphere/Net.Commerce Installation Directory Revealing Vulnerability	10976	CVE-2001-0389	Medium	Medium	2	6/16/2020
Multiple Oracle 8i Listener Vulnerabilities	19055	CVE-2001-0498	High	Critical	4	6/16/2020
Multiple Oracle 8i Listener Vulnerabilities	19055	CVE-2001-0499	High	Critical	4	6/16/2020
Cisco IOS HTTP Configuration Arbitrary Administrative Access Vulnerability	43005	CVE-2001-0537	High	Critical	4	6/16/2020
Drummon Miles A1Stats Directory Traversal Vulnerability	10340	CVE-2001-0561	High	Serious	3	6/16/2020
iPlanet Calendar Server Plaintext Admin Password Vulnerability	86154	CVE-2001-0620	Low	Urgent	5	1/1/2025
Dream Catchers Post-It! CGI Remote Arbitrary Command Execution Vulnerability	10431	CVE-2001-0844	High	Urgent	5	1/1/2025
Hassan Consulting Shopping Cart Arbitrary Command Execution Vulnerability	23013	CVE-2001-0985	High	Urgent	5	1/1/2025
Red Hat PHP SafeMode Arbitrary File Execution Vulnerability	115006	CVE-2001-1246	High	Urgent	5	6/16/2020
Ipswitch IMail Server Path Disclosure Vulnerability	74094	CVE-2001-1282	Medium	Serious	3	6/16/2020
Horde IMP Cross Site Scripting Vulnerability	11014	CVE-2002-0181	High	Serious	3	1/1/2025
CSSearch Remote Command Execution Vulnerability	10850	CVE-2002-0495	High	Urgent	5	1/1/2025
Hosting Controller Default Account Vulnerability	10674	CVE-2002-0774	High	Serious	3	6/16/2020
W3C Jigsaw Device Name Path Disclosure Vulnerability	86370	CVE-2002-1052	Medium	Medium	2	6/16/2020
Microsoft Data Access Components RDS Enabled	86432	CVE-2002-1142	High	Minimal	1	6/16/2020
Apache 2 WebDAV CGI POST Request Information Disclosure Vulnerability	86512	CVE-2002-1156	Medium	Critical	4	1/1/2025

- **Vulnerability Discrepancies**


BIGFIX
Qualys - Detected Vulnerability Discrepancies - Overview
Created on Dec 11, 2025
Based on Qualys Data
Help Center
CVSS
Qualys Severity
Top 5 Vulnerable by Device
DESKTOP-9926BDV
WIN-3DK1K3Q2V4O
WIN-9EFHF0JM7HB
Breakdown by Qualys Severity
Urgent
Critical
Serious
Severity
0
100
200
300
400
Number of vulnerabilities with Fixlets
Date
2016
2020
Detected CVSS
Detected Severity
Published CVSS
Published Severity
Vulnerabilities with Fixlets by Date First Detected - CVSS
CVSS High Medium Low
400
300
200
100
0
Vulnerabilities with Fixlet
92
34
241
2020/6
Vulnerability Detected Date



Qualys - Detected Vulnerability Discrepancies - Detail

Right-click on Vulnerability ID to drill down

* BigFix data

Vulnerability Title	Vulnerability ID	QID	CVSS	CVSS3	Weighted Score	Qualys Severity	Qualys Severity Score	Published Date	Applicable Devices	Product/Family
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Developer Tools, Runtimes, and Red
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Windows
SUSE Security Update for FlashPlayer (SUSE-SA:2009:041)	CVE-2009-0901	165158	High		0	Serious	3	8/25/2010		Windows

Qualys - Detected Vulnerability Discrepancies - Device Detail

* BigFix data

Vulnerability Title:	CentOS Security Update for openssl (CESA-2014:1653)	CVE:	CVE-2009-0901	* Fixlet Title:	3009008: Security Advisory: Vulnerability in SSL 3.0 Could A
QID:	110168	CVSS:	High	* Fixlet ID:	903505
Published Date:	9/8/2009	Qualys Severity:	Critical	* Fixlet Site:	Patches for Windows
		Qualys Severity Score:	3	* Fixlet Source ID:	KB2553374
				* Fixlet Category:	Critical Updates
				* Source Release Date:	01/03/2018

Right-click on Device ID to drill down

Date Detected	BigFix Computer ID	Computer Name	OS	IP Address	Type	Last Report Time
6/16/2020	1627259-1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	2/11/2021 8:26:41 AM
1/1/2025	1627259-1	DESKTOP-9926BDV	Win10 10.0.19041.804 (2004)	10.134.146.207	Server	2/11/2021 8:26:41 AM
6/16/2020	1622894162-1	WIN-3DK1K3Q2V4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	2/16/2021 4:05:18 PM
1/1/2025	1622894162-1	WIN-3DK1K3Q2V4O	Win2019 10.0.17763.107 (1809)	10.134.146.184	Server	2/16/2021 4:05:18 PM
6/16/2020	14456361-1	WIN-9EFHF0JM7HB	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	2/16/2021 4:11:07 PM
1/1/2025	14456361-1	WIN-9EFHF0JM7HB	Win2016 10.0.14393.1884 (1607)	10.134.146.136	Server	2/16/2021 4:11:07 PM

BIGFIX

Qualys -Detected Vulnerability Discrepancies - Device Detail

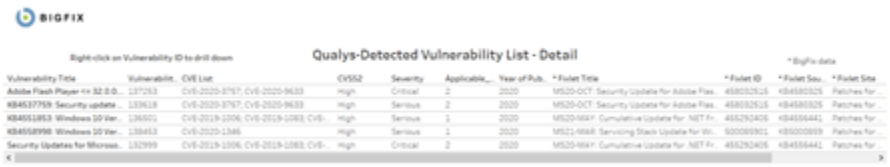
* BigFix data

* Device Name: DESKTOP-9926BDV
* BigFix Computer 14456361-1
* IP Address: 10.134.146.136
* OS: Win10 10.0.19041.804 (2004)
* Type: Server
* Last Report Time: 2/11/2021 8:26:41 AM

Vulnerability Title	QID	CVE	CVSS2	CVSS3	Qualys Severity	Qualys Severity Score	Weighted Score	DeviceID	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Source ID	* Fixlet
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for Client Software (Disable SSL 3.0 in Windows)	300900813	Patches for Windows	KB3009008	Undo V
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for IE Settings (Disable SSL 3.0 and enable TLS 1.0, TLS 1.1, and TLS 1.2 in Internet Explorer)	300900805	Patches for Windows	KB3009008	Undo V
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for IE Settings (Disable SSL 3.0 in Internet Explorer)	300900817	Patches for Windows	KB3009008	Undo V
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure - Disable Workaround for Server Software (Disable SSL 3.0 in Windows)	300900809	Patches for Windows	KB3009008	Undo V
CentOS Security Update for openssl (CESA-2014:1653)	122778	CVE-2014-3566	Medium	Low	Serious	3	0	14456361-1	3009008: Security Advisory: Vulnerability in SSL 3.0 Could Allow Information Disclosure -	300900811	Patches for Windows	KB3009008	Securit

Tableau reports

- **Detected Vulnerabilities with Applicable Fixlets**



BIGFIX

Device Detail Summary

* BigFix data

* Device Name	DeviceID	* IP Address	* OS	* Type	* Last Report Time
WIN-9EFHF0JM7HB	14456361-1	10.134.146.136	Win2016 10.0.14393.1884 (1607)	Server	2/16/2021 4:11:07 PM

Vulnerability Detail

Vulnerability Title	Vulnerabilit...	CVSS2	Severity	Detected Date
ActivePerl UTF-8 Denial of Service Vulnerability	116904	Medium	Serious	1/1/2025
Adobe Flash Player SWF File Unspecified Remote Code Execution Vulnerability	115811	High	Critical	6/16/2020
Adobe Reader and Acrobat Multiple Vulnerabilities (APSB16-26)	370084	High	Critical	6/16/2020
Amazon Linux Security Advisory for dbus:ALAS-2019-1246	351628	Low	Critical	6/16/2020
Amazon Linux Security Advisory for gc:ALAS-2013-245	350499	Medium	Serious	1/1/2025
Amazon Linux Security Advisory for golang,docker:ALAS-2015-588	350114	High	Serious	6/16/2020
Amazon Linux Security Advisory for mod_security:ALAS-2014-335	350393	Medium	Serious	6/16/2020
Amazon Linux Security Advisory for perl-YAML-LibYAML:AL2012-2015-056	350775	Medium	Serious	6/16/2020
Amazon Linux Security Advisory for ruby20:ALAS-2015-547	350155	Medium	Serious	6/16/2020
Apple QuickTime Prior to 7.7.5 Multiple Vulnerabilities (APPLE-SA-2014-02-25-3)	121819	High	Critical	6/16/2020
Atlassian JIRA Multiple Security Vulnerability (JRASERVER-69784,JRASERVER-69...	13609	Medium	Serious	6/16/2020
Atlassian Jira Server and Data Center Improper Authorization Vulnerability(JRASE...	13831	Medium	Medium	6/16/2020
CentOS Security Update for Firefox (CESA-2012:1210)	120578	High	Critical	1/1/2025
CentOS Security Update for firefox (CESA-2017:0558)	256179	High	Urgent	1/1/2025
CentOS Security Update for firefox Security Update (CESA-2018:2693)	256482	High	Critical	1/1/2025
CentOS Security Update for flatpak (CESA-2019:0375)	256573	Medium	Critical	1/1/2025
CentOS Security Update for Ghostscript (CESA-2012:0096)	120039	Medium	Medium	6/16/2020
CentOS Security Update for HelixPlayer (CESA-2010:0094)	116908	High	Serious	6/16/2020

BIGFIX

Vulnerability Device Summary

*BigFix Data

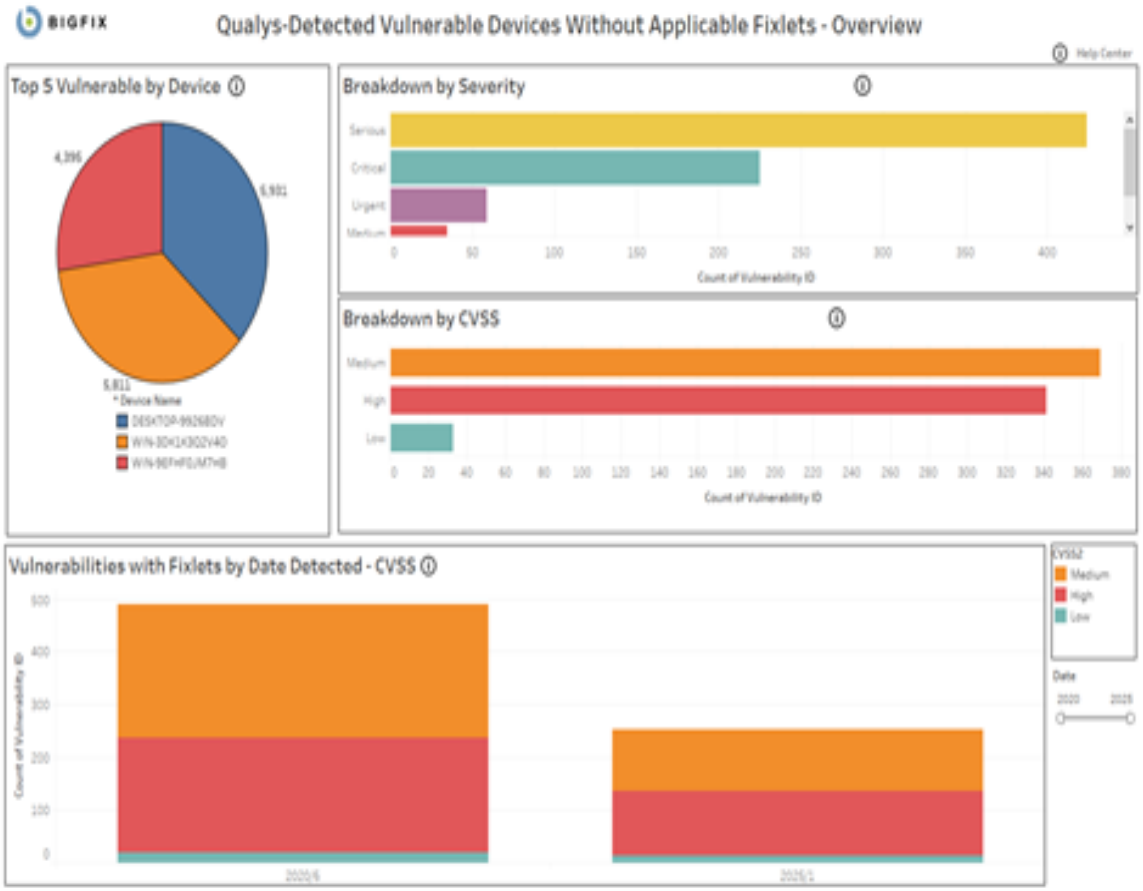
Vulnerabilit...	Vulnerabilit...	CVE List	Year of Pub...	CVSS2	Severity	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou...	* Fixlet Category	* Source Release Da...
Adobe Flas...	137253	CVE-2020-3...	2020	High	Critical	MS20-OCT: Security Update for Adobe Flash Player fo...	458032516	Patches for Windo...	KB4580325	Security Update	10/13/2020

Right-click on Device ID to drill down

Vulnerability Device Detail

Detected Date	DeviceID	* Device Name	* OS	* IP Address	* Type	* Last Report Time
3/8/2021	10373101-1	WIN-G7M4ML7INL9	Win2019 10.0.17763.107 (	172.17.128.1	Server	3/26/2021 4:57:12 PM
	546314002-1	W10-BOBCL-BVT8	Win10 10.0.17134.1304 (1...	10.134.146.97	Laptop	3/26/2021 4:54:11 PM

- **Detected Vulnerabilities without Available Fixlets**


BIGFIX
Qualys-Detected Vulnerable Devices Without Applicable Fixlets - Overview
Help Center
Top 5 Vulnerable by Device
4,396
6,931
5,811
* Device Name
DESKTOP-9926BDV
WIN-3DK1K302V40
WIN-9EFHFGUM7HB
Breakdown by Severity
Serious
Critical
Urgent
Medium
0
50
100
150
200
250
300
350
400
Count of Vulnerability ID
Breakdown by CVSS
Medium
High
Low
0
20
40
60
80
100
120
140
160
180
200
220
240
260
280
300
320
340
360
380
Count of Vulnerability ID
Vulnerabilities with Fixlets by Date Detected - CVSS
500
400
300
200
100
0
Count of Vulnerability ID
2020/6
2020/1
CVSS2
Medium
High
Low
Date
2020
2020

BIGFIX

Right-click on Vulnerability ID to dr..

Vulnerability List

* BigFix data

Vulnerability Title	Vulnerability ID	CVSS2	Severity	Applicable_Devices	Year of Published Date
Amazon Linux Security Advisory for dbus:ALAS-2019-1246	351628	Low	Critical	1	2019
Amazon Linux Security Advisory for quagga:ALAS-2012-070	360677	Low	Serious	1	2016
Atlassian Fisheye and Crucible Cross-Site Scripting Vulnerability ..	13422	Low	Serious	1	2019
CentOS Security Update for libvirt (CESA-2012:1202)	120574	Low	Medium	1	2012
CentOS Security Update for libvirt-test (CESA-2011:0478)	119287	Low	Serious	1	2011
CentOS Security Update for OpenSSH (CESA-2007:0257)	117547	Low	Medium	1	2010
CentOS Security Update for PAM (CESA-2007:0465)	117515	Low	Serious	1	2010
CentOS Security Update for qemu-kvm (CESA-2017:1856)	296277	Low	Critical	1	2017
CentOS Security Update for util-linux-ng (CESA-2013:0517)	121109	Low	Serious	1	2013
Debian Security Update for mailman (DSA 4246-1)	176429	Low	Serious	1	2018
Drupal core File Module Cross Site Scripting Vulnerability (SA-C..	13463	Low	Serious	1	2019
Fedora Security Update for libumwind (FEDORA-2015-11865)	124023	Low	Serious	1	2016
Fedora Security Update for qemu (FEDORA-2016-1b264ab8a8)	276023	Low	Serious	1	2016
Fedora Security Update for slapi-nis (FEDORA-2014-1442)	122951	Low	Serious	1	2016
Fedora Security Update for sudo (FEDORA-2015-2247)	123347	Low	Serious	1	2016
Fedora Security Update for xen (FEDORA-2016-de6b162776)	276264	Low	Serious	1	2016
iPlanet Calendar Server Plaintext Admin Password Vulnerability	86154	Low	Urgent	1	2001
McAfee VirusScan 4.0.3 Alert File Vulnerability	38313	Low	Serious	1	2004
OpenSuSE Security Update for libvirt (openSUSE-SU-2014:0816-..	166706	Low	Serious	1	2014
OpenSuSE Security Update for llvm (openSUSE-SU-2015:0245-1)	167600	Low	Serious	1	2016
OpenSuSE Security Update for XWayland (openSUSE-SU-2015:1..	167944	Low	Serious	1	2016
Oracle Enterprise Linux Security Update for libgcrypt (ELSA-201..	166707	Low	Serious	1	2014
Oracle Enterprise Linux Security Update for qemu-kvm (ELSA-20..	188022	Low	Medium	1	2019
PostNuke Cross Site Scripting Vulnerability	10643	Low	Serious	1	2002
Red Hat Update for OpenShift Container Platform 4.5.4 jenkins-..	238533	Low	Serious	1	2020
Skype Technologies Skype URI Handling Remote File Download V..	38547	Low	Serious	1	2006
SUSE Enterprise Linux Security Update for dbus-1 (SUSE-SU-201..	167211	Low	Serious	1	2014
SUSE Enterprise Linux Security Update for libapr1 (SUSE-SU-201..	171132	Low	Serious	1	2018
SUSE Enterprise Linux Security Update for Wireshark (SUSE-SU-..	165499	Low	Serious	1	2012
SUSE Security Update for libpt4 (openSUSE-SU-2013:0404-1)	166870	Low	Medium	1	2013

BIGFIX

Vulnerability Device Summary

* BigFix data

Vulnerability Title	Vulnerability ID	Year of Pub..	CVSS2	Severity
CentOS Security Update for libvirt (CESA-2012:1202)	120574	2012	Low	Medium

Right-click on Device ID to drill down

Vulnerability Device Detail

Detected Date	DeviceID	* Device Name	* OS	* IP Address	* Type	* Last Report Time
6/16/2020	14456361-1	WIN-9EFHF0JM7HB	Win2016 10.0.14393.1884 ..	10.134.146.136	Server	2/16/2021 4:11:07 PM

BIGFIX

Device Detail Summary

* BigFix data

* Device Name	DeviceID	* IP Address	* OS	* Type	* Last Report Time
WIN-9EFHF0JM7HB	14456361-1	10.134.146.136	Win2016 10.0.14393.1884 (1607)	Server	2/16/2021 4:11:07 PM

Vulnerability Detail

Vulnerability Title	Vulnerabilit..	CVSS2	Severity	Detected Date
ActivePerl UTF-8 Denial of Service Vulnerability	116904	Medium	Serious	1/1/2025
Adobe Flash Player SWF File Unspecified Remote Code Execution Vulnerability	115811	High	Critical	6/16/2020
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Amazon Linux Security Advisory for gc:ALAS-2013-245	350499	Medium	Serious	1/1/2025
Amazon Linux Security Advisory for golang,docker:ALAS-2015-588	350114	High	Serious	6/16/2020
Amazon Linux Security Advisory for mod_security:ALAS-2014-335	350393	Medium	Serious	6/16/2020
Amazon Linux Security Advisory for perl-YAML-LibYAML:AL2012-2015-056	350775	Medium	Serious	6/16/2020
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Apple QuickTime Prior to 7.7.5 Multiple Vulnerabilities (APPLE-SA-2014-02-25-3)	121819	High	Critical	6/16/2020
Atlassian JIRA Multiple Security Vulnerability (JRASERVER-69784,JRASERVER-69..	13609	Medium	Serious	6/16/2020
Atlassian Jira Server and Data Center Improper Authorization Vulnerability(JRASE..	13831	Medium	Medium	6/16/2020
CentOS Security Update for Firefox (CESA-2012:1210)	120578	High	Critical	1/1/2025
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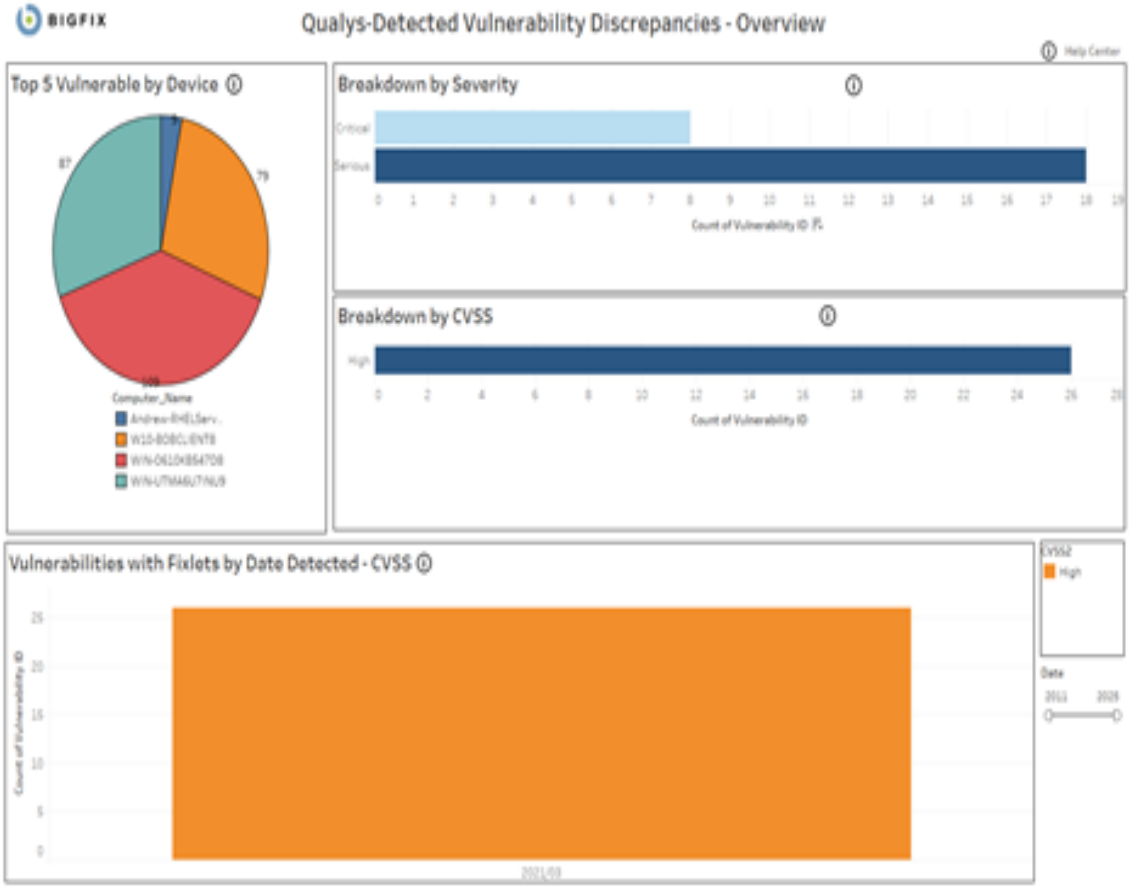
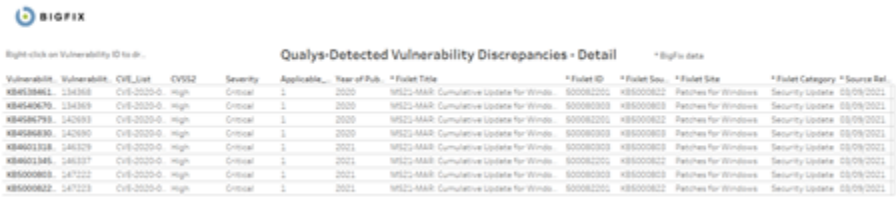
CentOS Security Update for firefox Security Update (CESA-2018:2693)	256482	High	Critical	1/1/2025
CentOS Security Update for flatpak (CESA-2019:0375)	256573	Medium	Critical	1/1/2025
CentOS Security Update for Ghostscript (CESA-2012:0096)	120039	Medium	Medium	6/16/2020
CentOS Security Update for HelixPlayer (CESA-2010:0094)	116908	High	Serious	6/16/2020

- **Vulnerability Discrepancies**


BIGFIX
Qualys-Detected Vulnerability Discrepancies - Overview
Help Center
Top 5 Vulnerable by Device
87
79
Computer_Name
Breakdown by Severity
Critical
Serious
Count of Vulnerability ID
Breakdown by CVSS
High
Count of Vulnerability ID
Vulnerabilities with Fixlets by Date Detected - CVSS
Count of Vulnerability ID
2021-09
CVSS2
High
Date


BIGFIX
Qualys-Detected Vulnerability Discrepancies - Detail

BIGFIX

Qualys-Detected Vulnerability Discrepancies - Device Summary

*BigFix data

DeviceID	* Computer Name	* IP Address	* OS	* Type	* Last Report Time
10073101-1	WIN-UTM46U7INU9	172.17.128.1...	Win2019 10.0.17763.107 (1809)	Server	3/26/2021 4:07:12 PM

Vulnerability Detail

Vulnerability Title	Vulnerabilit...	CVE_List	CVSS2	Severity	Detected Date	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou...	* Fixlet Category	* Source Rele...
KB4538461 Wind...	134368	CVE-2020-0646, CVE-2...	High	Critical	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4549949 Wind...	135463	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4551853 Wind...	136601	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4558998 Wind...	138463	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4561608 Wind...	137256	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4561349 Wind...	139484	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4570333 Wind...	140414	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4577668 Wind...	141433	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4586793 Wind...	142693	CVE-2020-0646, CVE-2...	High	Critical	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4592440 Wind...	143561	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4598230 Wind...	144887	CVE-2020-0646, CVE-2...	High	Serious	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB4601345 Wind...	146337	CVE-2020-0646, CVE-2...	High	Critical	3/8/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021
KB5000822 Wind...	147223	CVE-2020-0646, CVE-2...	High	Critical	3/12/2021	MS21-MAR: Cumulative Update for ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021

BIGFIX

Qualys-Detected Vulnerability Discrepancies - Device Summary

* BigFix Data

Vulnerabilit...	Vulnerabilit...	CVE_List	Year of Pub...	CVSS2	Severity	* Fixlet Title	* Fixlet ID	* Fixlet Site	* Fixlet Sou...	* Fixlet Category	* Source Rele...
KB4538461...	134368	CVE-2020-0646, CVE-2...	2020	High	Critical	MS21-MAR: Cumulative Update for Windows ...	500082201	Patches for Windows	KB5000822	Security Update	03/09/2021

Right-click on Device ID to drill down

Qualys-Detected Vulnerability Discrepancies - Device Detail

Detected Date	DeviceID	* Computer Name	* OS	* IP Address	* Type	* Last Report Time
3/8/2021	10073101-1	WIN-UTM46U7INU9	Win2019 10.0.17763.107 (1809)	172.17.128.1...	Server	3/26/2021 4:07:12 PM

Chapter 7. Reference

The following topics contain information on how you can work with the configuration file and settings, the CLI that comes with the package. They also describe how to use the log files for troubleshooting purposes.

Configuration file

Data Flow service uses `DataflowsConfig.xml` configuration file. The file is located in the default installation path. The file contains three sections: Data Sources, Data Flows, and Settings. All tags and attribute names in the file must be in lower case. There is also an `DataFlowsConfig.xsd` file that you can use to validate the configuration file on startup.

<datasources>

The `<datasources>` tag of the Configuration File represents a collection of the different data sources that the solution is configured to interact with. For a configuration to be valid, two datasources are required at the minimum. The `<datasourcename>` attribute should be unique.
The `<datasource>` tag is a child node of the `<datasources>` tag in the configuration document and represents the configuration information for a single datasource.

Table 5. Atrribute details of the configuration file

Attribute name	Default value	Required	Description
datasource-name	N/A	Yes	This attribute is used to uniquely identify the data-source. With this attribute, data-sources can be mapped to spe-cific adapters

Table 5. Atrribute details of the configuration file (continued)

Attribute name	Default value	Required	Description
			within each data flow. **Note:** The data-source-name attribute's values should be "TenableSC" or "TenableIO" for Tenable. Ex: <data-source data-source-name="TenableIO" ../>
connectionstring	N/A	Yes	URL of the respective data sources. For example: `https://`

Table 5. Atrribute details of the configuration file (continued)

Attribute name	Default value	Required	Description
			`[Qualys-APIURL],https://[TenableAPI_-URL]:443` **Note:** Port number is not required for Tenable.io. Ex: https://cloud.tenable-.com
username	N/A	System generated	This attribute is managed through the ProvideCredentials command. The data is encrypted prior to being persisted in the configuration file.

Table 5. Atrribute details of the configuration file (continued)

Attribute name	Default value	Required	Description
password	N/A	System generated	This attribute is managed through the ProvideCredentials command. The data is encrypted prior to being persisted in the configuration file.
verifycert	True	No	This attribute enables or disables SSL certificate validation with this data source.
proxy_host	N/A	Yes	This attribute provides the proxy server host along with a port number (format: HTTP:// or HTTPS:// proxy_host:proxy_port).
proxy_username	N/A	Optional	This attribute is managed through the

Table 5. Atrribute details of the configuration file (continued)

Attribute name	Default value	Required	Description
			configureproxy command. The data is encrypted prior to being persisted in the configuration file.
proxy_password	N/A	Optional	This attribute is managed through the configureproxy command. The data is encrypted prior to being persisted in the configuration file.

Note: If the verify cert is set to True in case of proxy, ensure the proxy machine certificate is added to the client of the machine.

<dataflows>

The `<dataflows>` tag of the configuration file represents a collection of the different data flows that the solution is configured to execute.

Each `<dataflow>` tag represents an instance of the flow of data from one system to another and consists of a Source Adapter tag and a Target Adapter tag.

Table 6. Atrribute details of the configuration file.

Attribute name	Required	Description
displayname	Yes	This attribute is used to describe the individual data flow.
datatype	Yes	asset (only for Asset Exchange)/finding (for all other dataflows)
executionintervalin-minutes	Yes	

<sourceadapter>

The `<sourceadapter>` tag identifies the source system from which the data is extracted. It must include a Properties collection, with a minimum of one property being valid.

Table 7. Atrribute details of the configuration file

Attribute name	Required	Description
displayname	Yes	This attribute is used to describe this adapter configuration.
adapterclass	Yes	qualys , tenable, insight (for Asset Exchange only) This attribute determines which adapter is used to extract data from the data source

Table 7. Atrribute details of the configuration file (continued)

Attribute name	Required	Description
datasourcename	Yes	This attribute value must match the name of a data source defined in the data sources collection. It is used to provide connection information to the adapter.

<targetadapter>

The `<targetadapter>` tag identifies the target system into which the data is loaded. It must include a Properties collection, with a minimum of one property being valid.

Table 8. Atrribute details of the configuration file

Attribute name	Required	Description
displayname	Yes	This attribute is used to describe this adapter configuration.
adapterclass	Yes	insight , tenable This attribute determines which adapter is used to extract data from the data source
datasourcename	Yes	This attribute value must match the name of a data source defined in the data

Table 8. Atrribute details of the configuration file (continued)

Attribute name	Required	Description
		sources collection. It is used to provide connection information to the adapter.

<device_properties>

The `<device_properties>` tag represents a collection of properties in a specific adapter. Each property in this collection is mapped by position to the collection in the corresponding target or source adapter. Target and source adapter devices are mapped with weight attribute in <identityproperty> tag.

```
<dataflow displayname="Endpoint data from Qualys To Bigfix Insights" datatype="finding" executionintervalinminute:
    <dataflowdescription/>
    <sourceadapter displayname="Qualys Adapter" adapterclass="qualys" datasourcename="QualysAPI">
        <device_properties>
            <identityproperty displayname="IP Address" propertyname="IP" datatype="string" weight="20"/>
            <property displayname="Computer Name" propertyname="DNS" datatype="string"/>
            <property displayname="Operating System" propertyname="OS" datatype="string"/>
        </device_properties>
    </sourceadapter>

    <targetadapter displayname="BigFix Insight Adapter" adapterclass="insight" datasourcename="BigfixINSIGHT">
        <device_properties>
            <identityproperty displayname="IP Address" propertyname="IP Address" datatype="string" weight="20"/>
            <property displayname="Computer Name" propertyname="Computer Name" datatype="string"/>
            <property displayname="Operating System" propertyname="OS" datatype="string"/>
        </device_properties>
    </targetadapter>
</dataflow>
```

Note: By default there are two dataflows in Tenable.io: Tenable.io dataflow and Asset Exchange dataflow. To disable Asset Exchange dataflow, delete the part of the XML file that includes AE dataflow. Important: Dataflow must be deleted from XML file, not commented out.

```
<?xml version="1.0" ?><dataflowconfig xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="DataflowsConfig.xsd">
    <datasources>
        <datasource datasourcename="BigfixINSIGHT" connectionstring="DRIVER={ODBC Driver 17 for SQL Server};SERVER=;DATABASE=BFInsights" verifycert="false" username=""
password=""/>
        <datasource datasourcename="TenableIO" connectionstring="https://cloud.tenable.com" verifycert="false" accesskey="" secretkey="" pagesize="5000"/>
    </datasources>
    <dataflows>
        <dataflow displayname="Endpoint data from Tenable.io To BigFix Insights" datatype="finding" executionintervalinminutes="1440">
            <dataflowdescription/>
            <sourceadapter displayname="Tenable Adapter" adapterclass="tenable" datasourcename="TenableIO">
                <device_properties>
                    <identityproperty displayname="IP Address" propertyname="asset_ips" datatype="string" weight="20"/>
                    <property displayname="DNS Name" propertyname="asset_dns_names" datatype="string"/>
                    <property displayname="NetBIOS Name" propertyname="asset_netbios_names" datatype="string"/>
                </device_properties>
            </sourceadapter>
            <targetadapter displayname="BigFix Insights Adapter" adapterclass="insight" datasourcename="BigfixINSIGHT">
                <device_properties>
                    <identityproperty displayname="IP Address" propertyname="IP Address" datatype="string" weight="20"/>
                    <property displayname="DNS Name" propertyname="DNS Name" datatype="string"/>
                    <property displayname="NetBIOS Name" propertyname="BIOS" datatype="string"/>
                </device_properties>
            </targetadapter>
        </dataflow>
        <dataflow displayname="Asset Exchange from BigFix Insights To Tenable.io" datatype="asset" executionintervalinminutes="1440">
            <dataflowdescription/>
            <sourceadapter displayname="BigFix Insights Adapter" adapterclass="insight" datasourcename="BigfixINSIGHT">
                <device_properties>
                    <property displayname="IP Address" propertyname="IP Address" datatype="string"/>
                    <property displayname="MAC Address" propertyname="MAC Address" datatype="string"/>
                    <property displayname="DNS Name" propertyname="DNS Name" datatype="string"/>
                    <property displayname="Computer Name" propertyname="Computer Name" datatype="string"/>
                    <property displayname="Remote ID" propertyname="ID" datatype="string"/>
                </device_properties>
            </sourceadapter>
            <targetadapter displayname="Tenable Adapter" adapterclass="tenable" datasourcename="TenableIO">
                <device_properties>
                    <property displayname="IP Address" propertyname="ipv4" datatype="list"/>
                    <property displayname="MAC Address" propertyname="mac_address" datatype="list"/>
                    <property displayname="DNS Name" propertyname="fqdn" datatype="list"/>
                    <property displayname="Netbios Name" propertyname="netbios_name" datatype="string"/>
                    <property displayname="Remote ID" propertyname="bigfix_remote_id" datatype="string"/>
                </device_properties>
            </targetadapter>
        </dataflow>
    </dataflows>
    <settings>
        <setting key="MinimumConfidenceLevel" value="20"/>
        <setting key="NumberOfConcurrentDataflows" value="1"/>
        <setting key="LogLevel" value="DEBUG"/>
        <setting key="CacheRefreshLimit" value="10"/>
    </settings>
</dataflowconfig>
```

<property>

The `<property>` tag represents a single column of data that is either extracted from or loaded into a system. It may include simple transformation logic to facilitate the transformation of the data received.

Table 9. Atrribute details of the configuration file

Attribute name	Required	Description
displayname	Yes	This attribute is used to describe the property being configured.
propertyname	Yes	This attribute is used to identify the corresponding column using a notation specific to each adapter.

Table 9. Atrribute details of the configuration file (continued)

Attribute name	Required	Description
datatype	Yes	Type: String
weight	No	This attribute assigns a weight to the property, which is used for the weighted confidence matching of records. Type: Int.

<settings>

The `<settings>` tag represents a collection of settings for the solution. For a detailed list of settings, see Configuration settings for IVR solution.

Table 10. Atrribute details of the configuration file

Attribute name	Required	Description
key	Yes	This attribute is the name of the setting that is being configured.
value	yes	This attribute is the value of the setting that is being configured.

Configuration settings for IVR solution

List of available settings you may change in a configuration file.

Setting name	Data type	Default value	Description	Possible values	Remarks
LogLevel	String	DEBUG	Sets the logging level for the service.	• INFO • DEBUG • ERROR	
Ivr_insight.worker_threads	Int	8	Sets the number of worker process (for Corellation) that can be run concurrently.		
Logger.RetentionInDays	Int	5	Indicates the duration of log that you want to retain.		
NumberOfConcurrentDataflows	Int	1	Sets the number of dataflow processors that can be run concurrently.		
DataFlow.QueueRefreshInterval	Int	120	The time interval at which the		

Setting name	Data type	Default value	Description	Possible values	Remarks
			data flow in refreshed.		
Minimum-Confidence-Level	Int	20	The minimum criteria for a record to match.		
CacheRefreshLimit	Int	10	Configures the system to refresh cache at a specified time interval. Changing this setting may affect the freshness of data with a trade-off efficient processing of data		
qualys.batch_-size	Int	10000	Specifies the maximum number of host records processed per request. When not spec-		

Setting name	Data type	Default value	Description	Possible values	Remarks
			ified, the `qualys.batch_-size` is set to 10,000 host records. You may specify a value less than the default (1-999) or greater than the default (1001-1000000).		
PurgeFindingsOnExecutionOfDataflow		FALSE		When set to true, will attempt to purge all *invalid ivr data associated with the current dataflow configuration (from which we generate a hash), as well as all data *not*	

Setting name	Data type	Default value	Description	Possible values	Remarks
				associated with existing dataflow configurations. *invalid - When the user modifies properties of a dataflow, a new hash is calculated. Data in the IVR schema is linked to the configuration hash from which it was derived. **Note:** When the IVR service starts, a	

Setting name	Data type	Default value	Description	Possible values	Remarks
				purge is performed (regardless of this setting) to attempt to automatically remove all invalid data (again, that is, data in	

Setting name	Data type	Default value	Description	Possible values	Remarks
				IVR tables linked to a hash that was calculated from a dataflow configuration that has been changed/modified by the user).	

Setting name	Data type	Default value	Description	Possible values	Remarks
rest_api_-read_time-out	Int	By default none of the timeouts will be set, so it is important to configure values accordingly.	Number of seconds BFIVR waits until connection to a server is established.	Example: <setting key="rest_-api_read_-timeout" value="5"/>	It is recommended to set connect timeouts slightly larger than a multiple of 3, which is the default TCP packet retransmission window.
rest_api_response	Int		Once BFIVR is connected to a server and HTTP request is sent, this timeout is the number of seconds the user waits for server to respond with data.	Example: <setting key="rest_-api_response_-timeout" value="5"/>	

Command line interface

The BigFix Insights for Vulnerability Remediation service executable (BFIVR.exe) provides a Command Line Interface (CLI) that we can use to perform several distinct functions related to the setup and execution of the solution. This includes installing, uninstalling, starting, and stopping the solution as a native system service. This allows us to securely provide credentials for data sources and validate configuration before starting the service from the BigFix console.

BigFix Insights for Vulnerability Remediation command arguments

The `BFIVR.exe` executable file is found in the default deployment folder. To view a list of all the commands supported, type --Help or -h at the command prompt.

```
.\BFIVR.exe -h
usage: BFIVR.exe [-h] [--Install | --Uninstall | --Start | --Stop | --Run | --ProvideCredentials [PROVIDECREDENTIALS] | --ValidateConfiguration | --InitializeSchemas]
                 [--ConfigFilePath <FilePath>] [--UserName <UserName>] [--Password <Password>]

Integration Services Command-Line Help

optional arguments:
  -h, --help            show this help message and exit
  --Install             This command will install this application as a system servivce.
  --Uninstall           This command will uninstall this application as a system service.
  --Start               This command will start the system service.
  --Stop                This command will stop the system service.
  --Run                 This command will execute the application as a Console application
  --ProvideCredentials [PROVIDECREDENTIALS]
                        This command will securely ask for credentials for all configured datasources
  --ValidateConfiguration
                        This command will attempt to validate the Integration Services XML Configuration file
  --InitializeSchemas   This command will attempt to initialize the datasources configured within a dataflow.
  --ConfigFilePath <FilePath>
                        Use this argument to provide the path to the Configuration File to store Encrypted Credentials
  --UserName <UserName>
                        Use this argument to provide the username for the system service to authenticate with, during installation.
  --Password <Password>
                        Use this argument to provide the password for the system service to authenticate with, during installation.
```

Table 11. List of command line arguments

Command	Purpose	Additional information
--ProvideCredentials <Data-SourceName>	To securely capture credentials for single datasource	
--provideCredentials	To securely capture credentials for all data-sources	
--ValidateConfiguration	To validate the configu-ration	
--InitializeSchemas	To initialize the schema	
--configureproxy	To configure proxy pa-rameters	

Note: The command line parameters are case sensitive.

Logs

You can find log files in the `logs` folder in the installation path. Logs are updated everyday. Configure the solution with INFO as the log level unless you intend to troubleshoot an issue.

Connections.[date].log

With DEBUG enabled, this log file contains detailed logging information related to the external connections to third-party datasources.

DataFlow.[date].log

With DEBUG enabled, this log file contains detailed logging information related to the execution of each dataflow. It is the primary interface used for debugging issues related to the ETL (Extract, Transform, Load)..

Main.[date]log

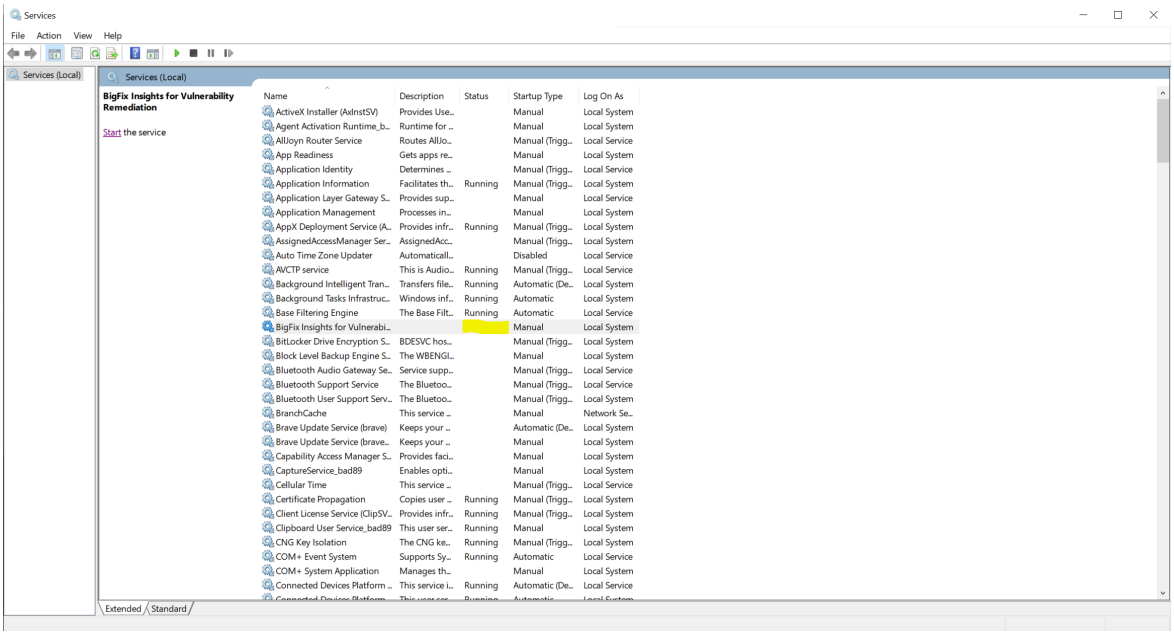
With DEBUG enabled, this log file contains detailed logging information related to the primary processes. It should show issues related to service start and configuration.

Troubleshooting

This topic helps you in troubleshooting various issues encountered in IVR (BigFix Insights for Vulnerability Remediation) service.

Diagnostic procedures:

- Check Windows Service Manager for Service State. The service should be in a running state.



- Check logs for errors & timestamp. Logs are found in the logs directory.

  [DatetimeOfExecution] [ProcessID] [Method] [Message]

```
29 2021-03-20 23:13:27.730910  3896   DataFlowRunner  LogLevels.DEBUG Executing DataFlow Task : Endpoint data from Qualys To Bigfix Insights
30 2021-03-20 23:13:27.730910  3896   GetDataSource   LogLevels.DEBUG Read Single Datasource details: QualysAPI
31 2021-03-20 23:13:27.730910  3896   GetDataSource   LogLevels.DEBUG Read Single Datasource details: BigfixINSIGHT
32 2021-03-20 23:13:27.746534  3896   __init__    LogLevels.DEBUG DataFlow Initialized
33 2021-03-20 23:13:27.746534  3896   execute LogLevels.INFO  Starting DataFlow: Endpoint data from Qualys To Bigfix Insights
34 2021-03-20 23:13:27.746534  3896   validate_configuration  LogLevels.DEBUG Validating Configuration
35 2021-03-20 23:13:27.746534  3896   validate_configuration  LogLevels.DEBUG Source Adapter Validation: qualys
36 2021-03-20 23:13:27.762156  3896   ExecuteRESTCommand  LogLevels.INFO  Executing REST Command
```

Table 12. DataFlow logs details

Message	Description
Executing DataFlow Task: Endpoint data from Qualys to Bigfix Insights	Indicates start of data flow
Loading Qualys Data	Indicates loading of Qualys data

Message	Description
Loading Insights Data	Indicates loading of Insights data
RecordCaches Loaded In	Indicates time it took to get data from Insights and Source Adapter (Qualys or Tenable)
Processing Changes From Source Adapter	At this point, we will take the changes and prepare updates for the IVR tables. The time when the processing changes from source adapter are considered and are updated in the IVR tables.
Done Processing Devices	Indicates that the device correlation is complete.
Updates Performed In	Indicates the time taken to stick data in the IVR tables.
Saving RecordCaches	The final step in which the record cache is saved.
DataFlowExecution Completed In	Indicates the end of data flow.
Starting Dataflow: Endpoint data from Tenable.io to Bigfix Insights	Indicates start of data flow
Connected to Tenable.io Server VERSION 6.9.1	Indicates loading of Tenable data is about to start

- Setting Verbosity - refer to the link for more information.

Known limitations

Refer to the below list of limitations in BigFix Insights for Vulnerability Remediation.

Warning: Do not use more than 1 dataflow per BigFix Insights for Vulnerability Remediation service.

Warning: Do not deploy BigFix Insights for Vulnerability Remediation service to more than 1 machine.

1. IVR(BigFix Insights for Vulnerability Remediation)1.1 currently officially supports BigFix Insights instances with only one BigFix Datasource.
2. IVR Tenable.sc: Allow Session Management must be disabled. For more information, refer to the Tenable.sc configuration settings.
3. Currently we do not support multi-instance data flow service even for the same datasource type.
4. PowerBI and Tableau reports: The maximum number of records which can be exported to CSV file:
    - 50k records for Tableau
    - 30k records for PowerBI
5. Power BI: The sorting of severities in the breakdown vizualizations may yield unpredictable results.
    - Sort order of the bars come up differently in an unpredictable order, but does not affect the functionality of the data.
6. IVR Tenable.io: Findings in the IVR.findings table whose asset has been deleted on Tenable.io are not removed until the finding/vulnerabilities themselves are updated on Tenable.io.
7. To run Asset Exchange and Tenable.io, the service should be stopped and restarted in between an Asset Exchange dataflow and Tenable.io dataflow.
8. Tenable.io: IP Addresess Multiplicity - If a property result set for a given device/asset contains more than one IPv4 address, this device/asset is not correlated. Currently not supported.
9. IVR Insights: Deleted custom fixlets remain in the IVR.vulnerability_fixlet_nexus table.
10. The drill-through filter to the Vulnerability List from the Overview dashboard for the Date Detected/Published visualization may not work correctly.

Chapter 8. Release Notes

The **release notes** outline the features, updates and patches that are included in each version of BigFix Insights for Vulnerability Remediation, including the latest application updates.

IVR 1.3 Release Notes

The BigFix team is pleased to announce the release of version 1.3 of the BigFix Insights for Vulnerability Remediation application (included in the BigFix Lifecycle and Compliance suites)! This application will enable IT Security and Operations teams to collaborate much more effectively by automatically correlating discovered vulnerabilities to their proper remediations, while providing prioritization data to focus remediation efforts.

The main features of this release are as follows:

- Introduced support for Tenable.sc version 5.20.x

Additional information about this release:

- Please find the **BigFix Insights for Vulnerability Remediation** Fixlet Site from the License Overview Dashboard under the Lifecycle or Compliance Sections

  For more information on enabling sites, please see https://help.hcltechsw.com/bigfix/10.0/platform/Platform/Console/c_license_overview_dashboard.html

- Published site version: 9

Useful links

- Documentation: https://help.hcltechsw.com/bigfix/10.0/integrations/Ecosystem/Install_Config/c_welcome.html

- Insights for Vulnerability Remediation Schema: https://help.hcltechsw.com/bigfix/10.0/integrations/Ecosystem/Schema/c_IVR_schema.html

- Learn more on our Product Page: https://www.hcltechsw.com/bigfix/ivr-home

IVR 1.2 Release Notes

The BigFix team is pleased to announce the release of version 1.2 of the BigFix Insights for Vulnerability Remediation application (included in the BigFix Lifecycle and Compliance suites)! This application will enable IT Security and Operations teams to collaborate much more effectively by automatically correlating discovered vulnerabilities to their proper remediations, while providing prioritization data to focus remediation efforts.

The main features of this release are as follows:

- Better scheduling support
  - You can now define granular schedules for BigFix Insights for Vulnerability Remediation to better control and manage when data will be synchronized and processed
- Proxy support
  - Connections from BigFix Insights for Vulnerability Remediation to your vulnerability management products can now be directed through a proxy for improved security
- Other minor enhancements and bug fixes

Additional information about this release:

- Find the **BigFix Insights for Vulnerability Remediation** Fixlet Site from the License Overview Dashboard under the Lifecycle or Compliance Sections

  For more information on enabling sites, please see https://help.hcltechsw.com/bigfix/10.0/platform/Platform/Console/c_license_overview_dashboard.html

Useful links

- Documentation: https://help.hcltechsw.com/bigfix/10.0/integrations/Ecosystem/Install_Config/c_welcome.html
- Insights for Vulnerability Remediation Schema: https://help.hcltechsw.com/bigfix/10.0/integrations/Ecosystem/Schema/c_IVR_schema.html
- Learn more on our Product Page: https://www.hcltechsw.com/bigfix/ivr-home

Appendix A. Glossary

This glossary provides terms and definitions for the Modern Client Management for BigFix software and products.

The following cross-references are used in this glossary:

- *See* refers you from a nonpreferred term to the preferred term or from an abbreviation to the spelled-out form.
- *See also* refers you to a related or contrasting term.

A B C D E F G L M N O P R S T U V W

A

action

1. See Fixlet.
2. A set of Action Script commands that perform an operation or administrative task, such as installing a patch or rebooting a device.

Action Script

Language used to perform an action on an endpoint.

agent

See BigFix agent.

ambiguous software

Software that has an executable file that looks like another executable file, or that exists in more than one place in a catalog (Microsoft Word as a standalone product or bundled with Microsoft Office).

audit patch

A patch used to detect conditions that cannot be remediated and require the attention of an administrator. Audit patches contain no actions and cannot be deployed.

automatic computer group

A computer group for which membership is determined at run time by comparing the properties of a given device against the criteria set for group membership. The set of devices in an automatic group is dynamic, meaning that the group can and does change. See also computer group.

B

baseline

A collection of actions that are deployed together. A baseline is typically used to simplify a deployment or to control the order in which a set of actions are applied. See also deployment group.

BigFix agent

The BigFix code on an endpoint that enables management and monitoring by BigFix.

BigFix client

See BigFix agent.

BigFix console

The primary BigFix administrative interface. The console provides a full set of capabilities to BigFix administrators.

BYOD

Bring Your Own Device (BYOD) refers to employees using personal devices to connect to their organizational networks and access work-related systems and potentially sensitive or confidential data.

C

client

A software program or computer that requests services from a server. See also server.

client time

The local time on a BigFix client's device.

Cloud

A set of compute and storage instances or services that are running in containers or on virtual machines.

Common Vulnerabilities and Exposures Identification Number (CVE ID)

A number that identifies a specific entry in the National Vulnerability Database. A vendor's patch document often includes the CVE ID, when it is available. See also National Vulnerability Database.

Common Vulnerabilities and Exposures system (CVE)

A reference of officially known network vulnerabilities, which is part of the National Vulnerabilities Database (NVD), maintained by the US National Institute of Standards and Technology (NIST).

component

An individual action within a deployment that has more than one action. See also deployment group.

computer group

A group of related computers. An administrator can create computer groups to organize systems into meaningful categories, and to facilitate deployment of content to multiple computers. See also automatic computer group and manual computer group.

console

See BigFix console.

content

Digitally-signed files that contain data, rules, queries, criteria, and other instructions, packaged for deployment across a network. BigFix agents use the detection criteria (Relevance statements) and action instructions (Action Script statements) in content to detect vulnerabilities and enforce network policies.

content relevance

A determination of whether a patch or piece of software is eligible for deployment to one or more devices. See also device relevance.

Coordinated Universal Time (UTC)

The international standard of time that is kept by atomic clocks around the world.

corrupt patch

A patch that flags an operator when corrections made by an earlier patch have been changed or compromised. This situation can occur when an earlier service pack or application overwrites later files, which results in patched files that are not current. The corrupt patch flags the situation and can be used to re-apply the later patch.

custom content

BigFix code that is created by a customer for use on their own network, for example, a custom patch or baseline.

CVE

See Common Vulnerabilities and Exposures system.

CVE ID

See Common Vulnerabilities and Exposures Identification Number.

D

data stream

A string of information that serves as a source of package data.

default action

The action designated to run when a Fixlet is deployed. When no default action is defined, the operator is prompted to choose between several actions or to make an informed decision about a single action.

definitive package

A string of data that serves as the primary method for identifying the presence of software on a computer.

deploy

To dispatch content to one or more endpoints for execution to accomplish an operation or task, for example, to install software or update a patch.

deployment

Information about content that is dispatched to one or more endpoints, a specific instance of dispatched content.

deployment group

The collection of actions created when an operator selects more than one action for a deployment, or a baseline is deployed. See also baseline, component, deployment window, and multiple action group.

deployment state

The eligibility of a deployment to run on endpoints. The state includes parameters that the operator sets, such as 'Start at 1AM, end at 3AM.'

deployment status

Cumulative results of all targeted devices, expressed as a percentage of deployment success.

deployment type

An indication of whether a deployment involved one action or multiple actions.

deployment window

The period during which a deployment's actions are eligible to run. For example, if a Fixlet has a deployment window of 3 days and an eligible device that has been offline reports in to BigFix within the 3-day window, it gets the Fixlet. If the device comes back online after the 3-day window expires, it does not get the Fixlet. See also deployment group.

device

An endpoint, for example, a laptop, desktop, server, or virtual machine that BigFix manages; an endpoint running the BigFix Agent.

device holder

The person using a BigFix-managed computer.

device property

Information about a device collected by BigFix, including details about its hardware, operating system, network status, settings, and BigFix client. Custom properties can also be assigned to a device.

device relevance

A determination of whether a piece of BigFix content applies to applies to a device, for example, where a patch should be applied, software installed, or a baseline run. See also content relevance.

device result

The state of a deployment, including the result, on a particular endpoint.

Disaster Server Architecture (DSA)

An architecture that links multiple servers to provide full redundancy in case of failure.

DSA

See Disaster Server Architecture.

dynamically targeted

Pertaining to using a computer group to target a deployment.

E

endpoint

A networked device running the BigFix agent.

F

filter

To reduce a list of items to those that share specific attributes.

Fixlet

A piece of BigFix content that contains Relevance and Action Script statements bundled together to perform an operation or task. Fixlets are the basic building blocks of BigFix content. A Fixlet provides instructions to the BigFix agent to perform a network management or reporting action.

Full Disk Encryption

To reduce a list of items to those that share specific attributes.

G

group deployment

A type of deployment in which multiple actions were deployed to one or more devices.

H

Hybrid cloud

The utilization of distinct sets of cloud services (typically public and private) with integration and/or orchestration across them.

L

locked

An endpoint state that prevents most of the BigFix actions from running until the device is unlocked.

M

MAG

See multiple action group.

management rights

The limitation of console operators to a specified group of computers. Only a site administrator or a master operator can assign management rights.

manual computer group

A computer group for which membership is determined through selection by an operator. The set of devices in a manual group is static, meaning they do not change. See also computer group.

master operator

A console operator with administrative rights. A master operator can do everything that a site administrator can do, except creating operators.

masthead

A collection of files that contain the parameters of the BigFix process, including URLs to Fixlet content. The BigFix agent brings content into the enterprise based on subscribed mastheads.

MCM and BigFix Mobile

Refers to the offering by Bigfix that is common for both Modern Client Management to manage laptops (Windows and macOS) and BigFix Mobile to manage mobile devices (Android, iOS, and iPadOS).

mirror server

A BigFix server required if the enterprise does not allow direct web access but instead uses a proxy server that requires password-level authentication.

Multicloud

The utilization of distinct sets of cloud services, typically from multiple vendors, where specific applications are confined to a single cloud instance.

multiple action group (MAG)

A BigFix object that is created when multiple actions are deployed together, as in a baseline. A MAG contains multiple Fixlets or tasks. See also deployment group.

N

National Vulnerability Database (NVD)

A catalog of officially known information security vulnerabilities and exposures, which is maintained by the National Institute of Standards and Technology (NIST). See also Common Vulnerabilities and Exposures Identification Number.

NVD

See National Vulnerability Database.

O

offer

A deployment option that allows a device holder to accept or decline a BigFix action and to exercise some control over when it runs. For example, a device holder can decide whether to install a software application, and whether to run the installation at night or during the day.

open-ended deployment

A deployment with no end or expiration date; one that runs continuously, checking whether the computers on a network comply.

operator

A person who uses the BigFix WebUI, or portions of the BigFix console.

P

patch

A piece of code added to vendor software to fix a problem, as an immediate solution that is provided to users between two releases.

patch category

A description of a patch's type and general area of operation, for example, a bug fix or a service pack.

patch severity

The level of risk imposed by a network threat or vulnerability and, by extension, the importance of applying its patch.

R

relay

A client that is running special server software. Relays spare the server and the network by minimizing direct server-client downloads and by compressing upstream data.

Relevance

BigFix query language that is used to determine the applicability of a piece of content to a specified endpoint. Relevance asks yes or no questions and evaluates the results. The result of a Relevance query determines whether an action can or should be applied. Relevance is paired with Action Script in Fixlets.

S

SCAP

See Security Content Automation Protocol.

SCAP check

A specific configuration check within a Security Content Automation Protocol (SCAP) checklist. Checks are written in XCCDF and are required to include SCAP enumerations and mappings per the SCAP template.

SCAP checklist

A configuration checklist that is written in a machine-readable language (XCCDF). Security Content Automation Protocol (SCAP) checklists have been submitted to and accepted by the NIST National Checklist Program. They also conform to a SCAP template to ensure compatibility with SCAP products and services.

SCAP content

A repository that consists of security checklist data represented in automated XML formats, vulnerability and product name related enumerations, and mappings between the enumerations.

SCAP enumeration

A list of all known security related software flaws (CVEs), known software configuration issues (CCEs), and standard vendor and product names (CPEs).

SCAP mapping

The interrelationship of enumerations that provides standards-based impact measurements for software flaws and configuration issues.

Security Content Automation Protocol (SCAP)

A set of standards that is used to automate, measure, and manage vulnerability and compliance by the National Institute of Standards and Technology (NIST).

server

A software program or a computer that provides services to other software programs or other computers. See also client.

signing password

A password that is used by a console operator to sign an action for deployment.

single deployment

A type of deployment where a single action was deployed to one or more devices.

site

A collection of BigFix content. A site organizes similar content together.

site administrator

The person who is in charge of installing BigFix and authorizing and creating new console operators.

software package

A collection of Fixlets that install a software product on a device. Software packages are uploaded to BigFix by an operator for distribution. A BigFix software package includes the installation files, Fixlets to install the files, and information about the package (metadata).

SQL Server

A full-scale database engine from Microsoft that can be acquired and installed into the BigFix system to satisfy more than the basic reporting and data storage needs.

standard deployment

A deployment of BigFix that applies to workgroups and to enterprises with a single administrative domain. It is intended for a setting in which all Client computers have direct access to a single internal server.

statistically targeted

Pertaining to the method used to target a deployment to a device or piece of content. Statically targeted devices are selected manually by an operator.

superseded patch

A type of patch that notifies an operator when an earlier version of a patch has been replaced by a later version. This occurs when a later patch updates the same files as an earlier one. Superseded patches flag vulnerabilities that can be remediated by a later patch. A superseded patch cannot be deployed.

system power state

A definition of the overall power consumption of a system. BigFix Power Management tracks four main power states Active, Idle, Standby or Hibernation, and Power Off.

T

target

To match content with devices in a deployment, either by selecting the content for deployment, or selecting the devices to receive content.

targeting

The method used to specify the endpoints in a deployment.

task

A type of Fixlet designed for re-use, for example, to perform an ongoing maintenance task.

U

UTC

See Coordinated Universal Time.

V

virtual private network (VPN)

An extension of a company intranet over the existing framework of either a public or private network. A VPN ensures that the data that is sent between the two endpoints of its connection remains secure.

VPN

See virtual private network.

vulnerability

A security exposure in an operating system, system software, or application software component.

W

Wake-from-Standby

A mode that allows an application to turn a computer on from standby mode during predefined times, without the need for Wake on LAN.

Wake on LAN

A technology that enables a user to remotely turn on systems for off-hours maintenance. A result of the Intel-IBM Advanced Manageability Alliance and part of the Wired for Management Baseline Specification, users of this technology can remotely turn on a server and control it across the network, thus saving time on automated software installations, upgrades, disk backups, and virus scans.

WAN

See wide area network.

wide area network (WAN)

A network that provides communication services among devices in a geographic area larger than that served by a local area network (LAN) or a metropolitan area network (MAN).

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