

# BigFix Insights for Vulnerability Management Quick Start 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.

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## 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.

#### IVR data is available in:

- WebUI IVR app it is required to enable WebUI to access IVR data through Insights. For more information on installing IVR app, see Setting up IVR App.
- BI Tools for Data Analysis existing IVR reports in PowerBI and Tableau. Refer to the link to find out more about IVR reports.

#### IVR limitations:

- Only one source of vulnerability data for automatic ingestion is supported for a given BigFix Insights instance
- One BigFix WebUI instance can manage only one BigFix Insights database. This limitation means that you cannot simultaneously connect or manage multiple instances of BigFix Insights through one WebUI instance.

**BigFix Server** BigFix 6 Insights ETL (1433) Operator WebUI (443) Insights Broker (52318) Vulnerability Access Data **IVR Service** IVR Data (1433) REST IVR API (443) ETL (1433) MS-SQL BIGFI (1433)MS PowerBl **BigFix Insights** +ab|eau Data Analyst

Figure 1. Architecture overview of BigFix Insights for Vulnerability Remediation

# 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

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  - < 1M Findings from Vulnerability Management Product = 64GB  - < 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 - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 30GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB preferred - < 4M Findings from Vulnerability Management Product = 16GB - 10GB pre		Hardware requirements	
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Product = 16GB  - < 2M Findings from Vulnerability Management Product = 32GB  - < 3M Findings from Vulnerability Management Product = 48GB  - < 4M Findings from Vulnerability Management Product = 64GB   - < 1M Findings from Vulnerability Management Product = 4GB - 8GB preferred  - < 2M Findings from Vulnerability Management Product = 4GB - 8GB preferred  - < 3M Findings from Vulnerability Management Product = 12GB - 12GB preferred  - < 3M Findings from Vulnerability Management Product = 12GB - 16GB preferred  - < 4M Findings from Vulnerability Management Product = 16GB - 20GB preferred  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 en vironment  - API latency  - Conflicting workloads on IVR machine	RAM	On top of host OS requirements:	
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cessing depends on:  CPU Speed  Number of findings  Number of assets in insights  Number of patch sites loaded within the BFE en vironment  API latency  Conflicting workloads on IVR machine	Disc space	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	
	Execution Time	<ul> <li>CPU Speed</li> <li>Number of findings</li> <li>Number of assets in insights</li> <li>Number of patch sites loaded within the BFE environment</li> <li>API latency</li> </ul>	
	• Conflicting workloads on IVR machine  Software requirements		

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

BigFix Component Requirements	BigFix Insights WebUI App (v6) (minimum)	
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      Note: The Fixlet will attempt to deploy the pre-requisites automatically.	
Operating system	Microsoft Windows 2016     Microsoft Windows 2019	
Supported BigFix versions	Windows - based BigFix Server, Version 10      Note: BigFix Insights for Vulnerability     Remediation does not currently support     non-Windows-based BigFix Server environments.	
BigFix License Requirements	BigFix Lifecycle     BigFix Compliance     BigFix Remediate	
Supported Vulnerability Management Platforms	<ul> <li>Qualys VMDR v2 REST API:</li> <li>https://www.qualys.com/docs/qualys-api-vm-pc-user-guide.pdf</li> <li>Tenable.SC versions from 5.17 up to 6.0.0.</li> <li>Tenable.IO</li> </ul>	

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

	Note: 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.
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/enus/download/details.aspx?id=56723  • Tableau Desktop/Server, 2020.4 +
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.  By default WebUI IVR app listens on port 52318. It can be changed in the WebUI application configuration file with _WebUIAppEnv_INSIGHTBROKER_PORT setting.

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

System limitations	<ul> <li>Only one source of vulnerability data for automatic ingestion is supported for a given BigFix Insights instance</li> </ul>
	<ul> <li>A single BigFix WebUI instance can manage only one BigFix Insights database.</li> </ul>

# Chapter 3. Deployment and configuration

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

Tenable.io

Tenable.sc

#### Qualys

Refer to the link to learn more about other Fixlets and Tasks available for BigFix Insights for Vulnerability Remediation solution.

### Deployment and configuration for Tenable.io

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

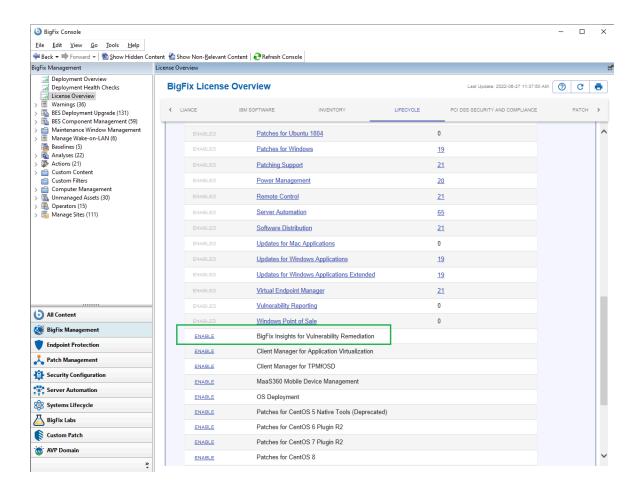
To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:



Note: To use the latest release build, uninstall the old version.

Enable a content site.

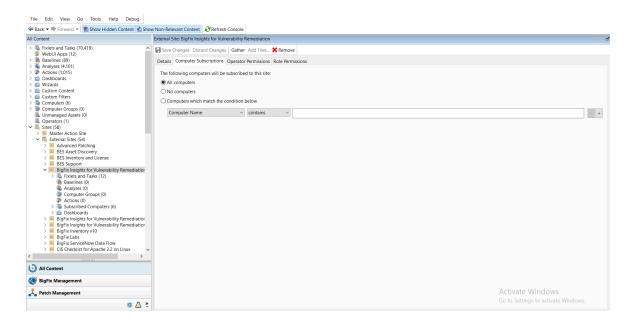
Navigate to BigFix License Overview Dashboard. In **Compliance/Lifecycle** panel, click **Enable BigFix Insights for Vulnerability Remediation** Fixlet to gather the required content.



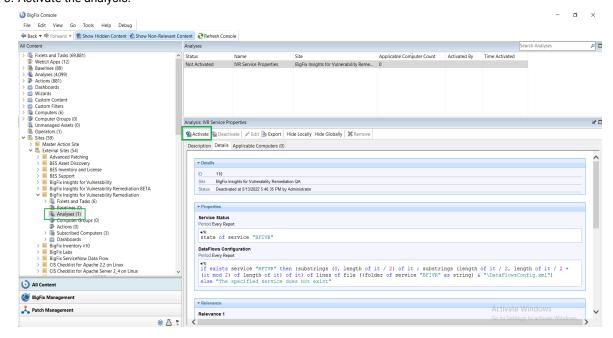


Note: Refer to the following link for more information about License Overview dashboard.

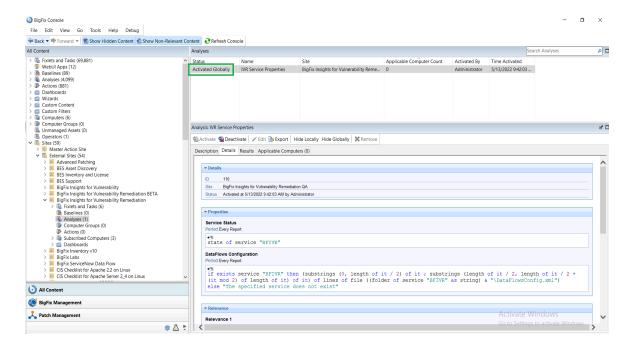
2. Subscribe computers to the site. It is recommended to subscribe to All computers. For more information on **Computer Subscriptions Tab** refer to the link.



3. Activate the analysis.



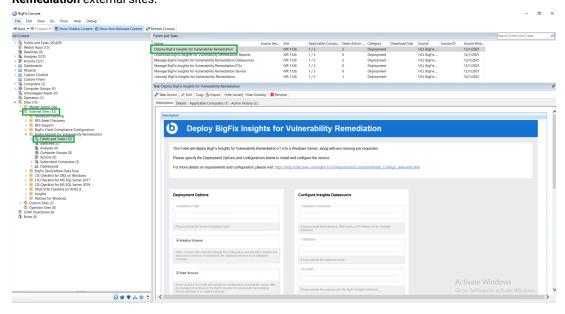
Status of the analysis should be Activated Globally.





Note: Refer to the link to learn more about Computer Subscriptions Tab.

- 4. Deploy the solution to the target server.
  - a. Click **Deploy Insights for Vulnerability Remediation** Fixlet in the **BigFix Insights for Vulnerability Remediation** external sites.



b. Fill in the blanks in the description panel and Take action to deploy the IVR services.

Please provide:

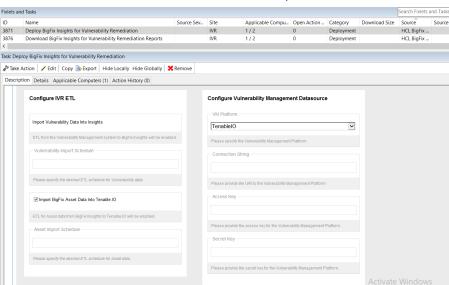
- Deployment Options
  - Installation path

- Configure Insights Database
  - Database Hostname the hostname, DNS name, or IP address for the Insights
     Database
  - Database database name
  - · Account the user name for the BigFix Insights Database
  - Password the password for the user name specified above
- Configure IVR ETL
  - Import Vulnerability Data Into Insights specify the desired ETL schedule for Vulnerability data
  - Import BigFix Asset Data Into Tenable.IO specify the desired ETL schedule for Asset data\*

ETL schedule for Vulnerability data uses Cron Time String Format. Refer to the link to find out more about the Scheduler.

The column named datasource\_device\_id in Bigfix Insight serves as the device identifier for IVR purposes. This identifier is labeled as bigfix\_asset\_id and forwarded to TenablelO.

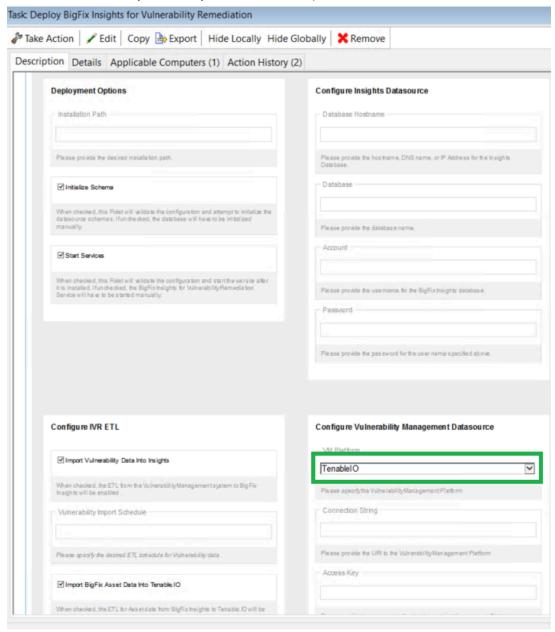
\*Tenable.IO offers an optional feature that allows BigFix IVR to transmit endpoint asset data to Tenable.IO. This can potentially give Tenable users access to information about assets that were previously unknown. By providing a more comprehensive and current view of the assets, Tenable.IO and BigFix can help in identifying and mitigating potential security risks, identifying under-utilized resources, and facilitating compliance efforts. For more information about assets in Tenable.IO refer to the following page: https://docs.tenable.com/tenableio/Content/Platform/Explore/



ExploreAssets.htm.

Configure Vulnerability Management Datasource

- VM Platform specify the VM Platform
- Connection String the URL to the Vulnerability Management Platform
- Access Key access key for the Vulnerability Management Platform
- Secret Key secret key for the user name specified above



Proxy Settings for Insights Datasource

Proxy Host

Proxy User

Proxy User

Proxy Password

Please pro vide the proxypassword.

To provide proxy details click on **Advanced Settings**. This option is not mandatory.



**Note:** Please note the following pre-requisites:

- Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/enin/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

The Fixlet will attempt to deploy the pre-requisites automatically.

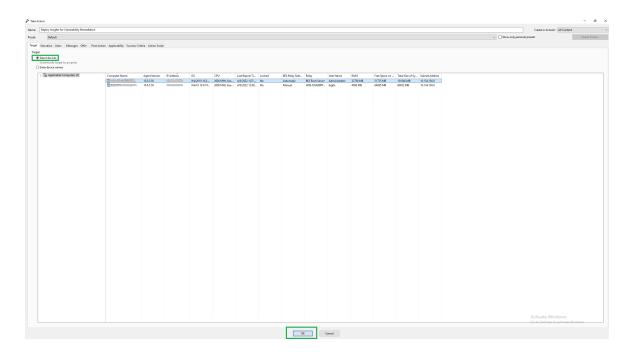


Warning: Do not deploy the BigFix Insights for Vulnerability Service to more than 1 machine.

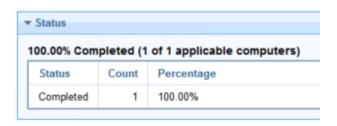


Warning: Do not have more than 2 dataflows per IVR Service.

5. Select target devices under Target tab and click OK.



Wait for the deployment to complete. Status should show 100% completed.



6. If Start services option was selected in the Description panel BigFix Insights for Vulnerability Remediation service should be present and in Running state in the Services. Otherwise, the BigFix Insights for Vulnerability Remediation service must be started manually. This indicates deployment is completed. Deployment can be checked on the log file: install.log.

Refer to the following link to learn more about other IVR Tasks.

### Deployment and configuration for Tenable.sc

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

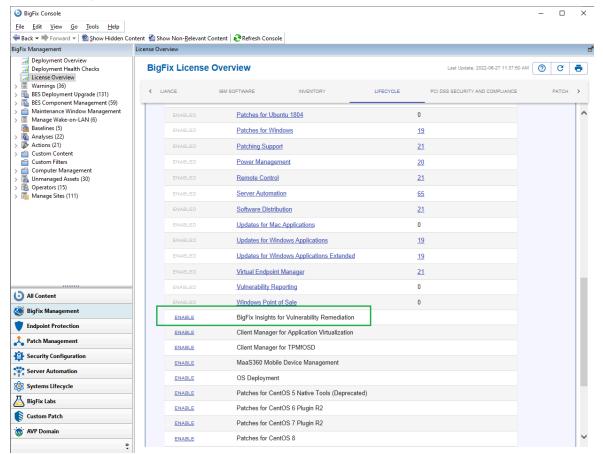
To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:



Note: To use the latest release build, the old version must be uninstalled.

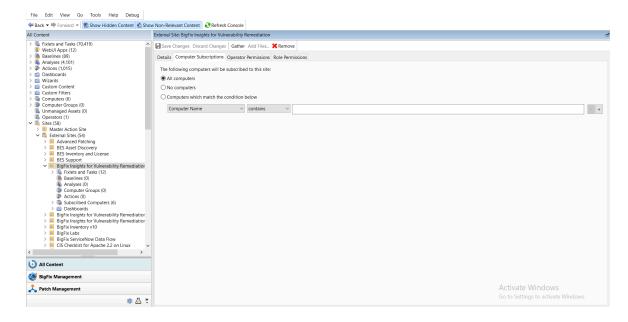
1. Enable a content site.

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

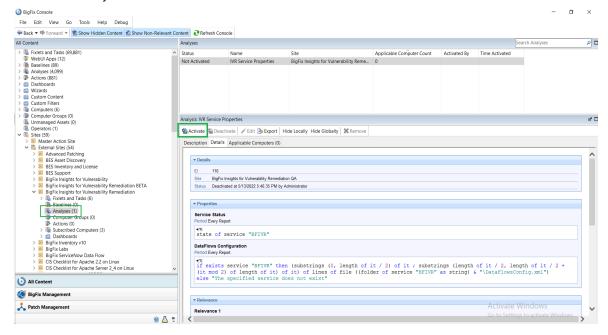


Note: Refer to the following link for more information about License Overview dashboard.

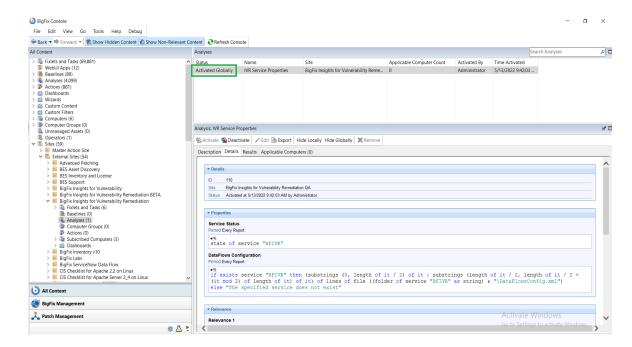
2. Subscribe computers to the site. It is recommended to subscribe to All computers. For more information on **Computer Subscriptions Tab** refer to the link.



3. Activate the analysis.



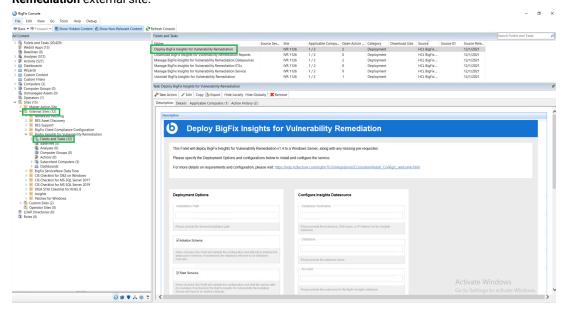
Status of the analysis should be Activated Globally.





Note: Refer to the link to learn more about Computer Subscriptions Tab.

- 4. Deploy the solution to the target server.
  - a. Click **Deploy Insights for Vulnerability Remediation** Fixlet in the **BigFix Insights for Vulnerability Remediation** external site.

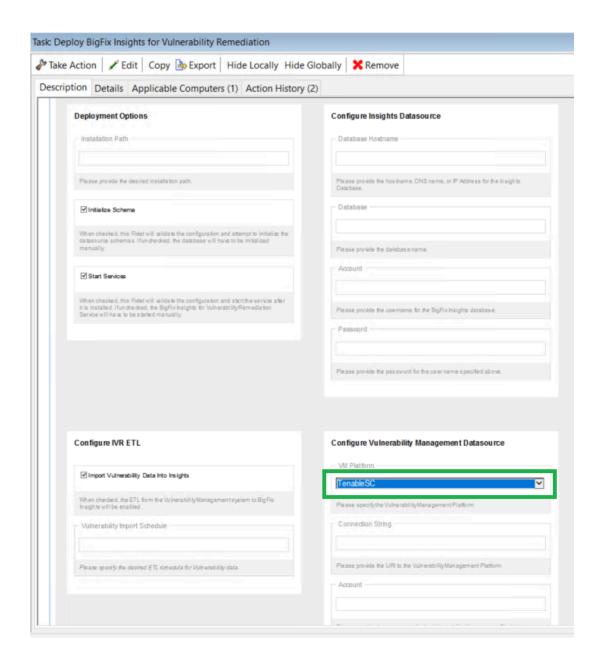


b. Fill in the blanks in the description panel and Take action to deploy the IVR services.

Please provide:

- Deployment Options
  - Installation path

- Configure Insights Database
  - Database Hostname the hostname, DNS name, or IP address for the Insights
     Database
  - Database database name
  - Account the user name for the BigFix Insights Database
  - Password the password for the user name specified above
- Configure IVR ETL
  - Vulnerability Import Schedule specify the desired ETL schedule for Vulnerability data.
     ETL schedule for Vulnerability data uses Cron Time String Format. Refer to the link to find out more about the Scheduler.
- Configure Vulnerability Management Datasource
  - specify the VM Platform
  - Connection String the URL to the Vulnerability Management Platform
  - Account the user name for the Vulnerability Management Platform
  - Password the password for the user name specified above



Advanced Settings Proxy Settings for Insights Datasource Proxy Settings for VM Proxy Host Proxy Host Please provide the proxyhost for Insights Datasource Please pro vide the proxyhost URI for VM Proxy User Proxy User Please pro vide the proxyusername Please pro vide the proxyusername. Proxy Password Please pro vide the proxypass word. Please pro vide the proxypassword.

To provide proxy details click on Advanced Settings. This option is not mandatory.



**Note:** Please note the following pre-requisites:

- · Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/enin/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

The Fixlet will attempt to deploy the pre-requisites automatically.

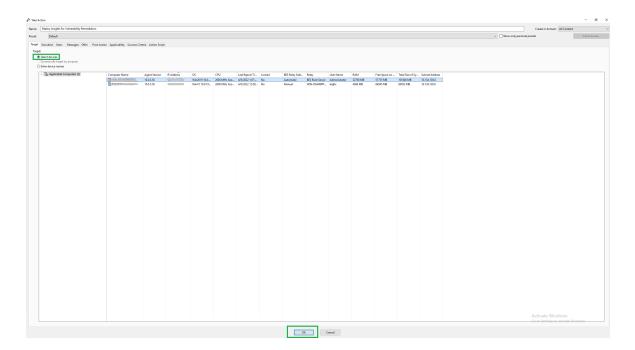


Warning: Do not deploy the BigFix Insights for Vulnerability Remediation Service to more than 1 machine.

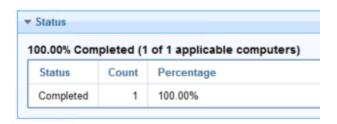


Warning: Do not have more than 1 dataflow per IVR Service.

5. Select target devices and click OK.



Wait for the deployment to complete. Status should show 100% completed.



6. If Start services option was selected in the Description panel BigFix Insights for Vulnerability Remediation service should be present and in Running state in the Services. Otherwise, the BigFix Insights for Vulnerability Remediation service must be started manually. This indicates deployment is completed. can be checked on the log file: install.log.

Refer to the following link to learn more about other IVR Tasks.

### Deployment and configuration for Qualys

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

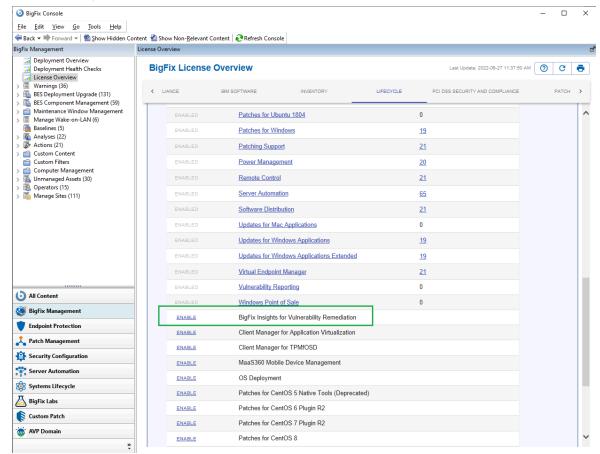
To install and configure BigFix Insights for Vulnerability Remediation service, perform below steps:



Note: To use the latest release build, the old version must be uninstalled.

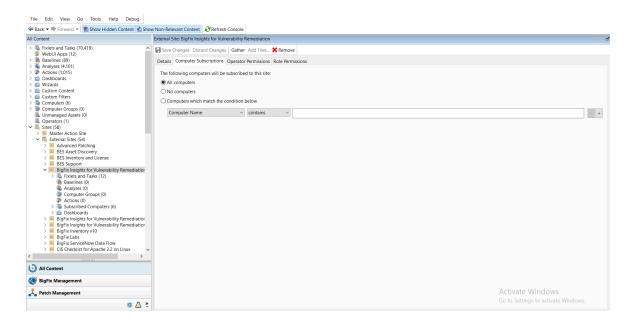
1. Enable a content site.

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

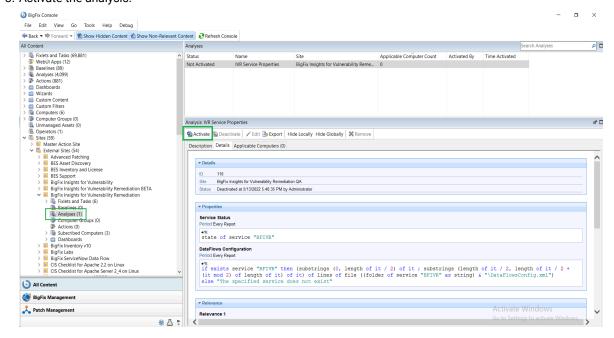


Note: Refer to the following link for more information about License Overview dashboard.

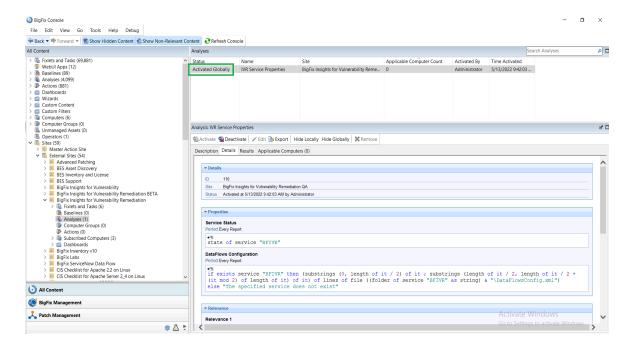
2. Subscribe computers to the site. It is recommended to subscribe to All computers. For more information on **Computer Subscriptions Tab** refer to the link.



3. Activate the analysis.



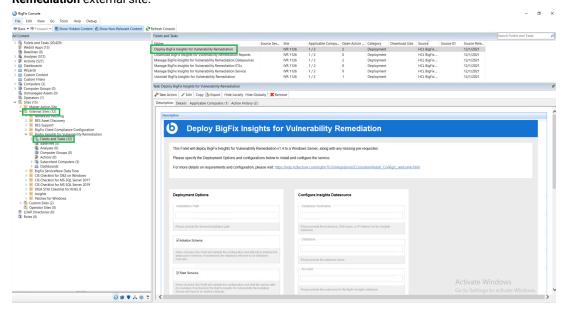
Status of the analysis should be Activated Globally.





Note: Refer to the link to learn more about Computer Subscriptions Tab.

- 4. Deploy the solution to the target server.
  - a. Click **Deploy Insights for Vulnerability Remediation** Fixlet in the **BigFix Insights for Vulnerability Remediation** external site.

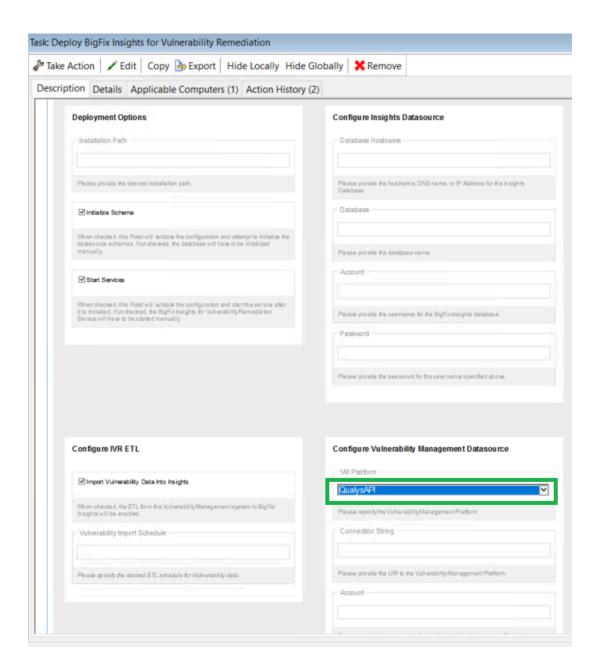


b. Fill in the blanks in the description panel and Take action to deploy the IVR services.

Please provide:

- Deployment Options:
  - Installation path

- Configure Insights Database
  - Database Hostname the hostname, DNS name, or IP address for the Insights
     Database
  - Database database name
  - Account the user name for the BigFix Insights Database
  - Password the password for the user name specified above
- Configure IVR ETL
  - Vulnerability Import Schedule ETL schedule for Vulnerability data uses Cron Time
     String Format. Refer to the link to find out more about the Scheduler
- Configure Vulnerability Management Datasource:
  - specify the VM Platform
  - Connection String the URL to the Vulnerability Management Platform
  - Account the user name for the Vulnerability Management Platform
  - Password the password for the user name specified above



Advanced Settings Proxy Settings for Insights Datasource Proxy Settings for VM Proxy Host Proxy Host Please provide the proxyhost URI for VM Please provide the proxyhost for Insights Datasource Proxy User Proxy User Please pro vide the proxyusername Please pro vide the proxyusername Please pro vide the proxypass word. Please pro vide the proxypassword.

To provide proxy details click on Advanced Settings. This option is not mandatory.



**Note:** Please note the following pre-requisites:

- · Microsoft Visual Studio C++ Redistributable 2012:https://www.microsoft.com/enin/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

The Fixlet will attempt to deploy the pre-requisites automatically.

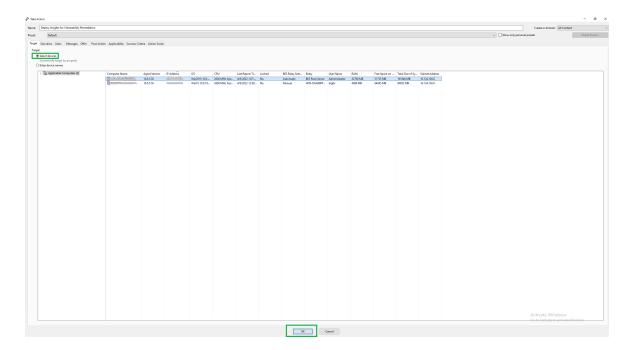


Warning: Do not deploy the BigFix Insights for Vulnerability Remediation Service to more than 1 machine.

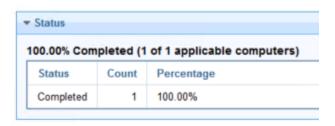


Warning: Do not have more than 1 dataflow per IVR Service.

5. Select target devices and click **OK**. Wait for the deployment to complete.



Status should show 100% completed.



6. If Start services option was selected in the Description panel BigFix Insights for Vulnerability Remediation service should be present and in Running state in the Services. Otherwise, the BigFix Insights for Vulnerability Remediation service must be started manually. This indicates deployment is completed. can be checked on the log file: install.log.

Refer to the following link to learn more about other IVR Tasks.

### Chapter 4. IVR Fixlets and Tasks

Learn more about available Fixlets and Tasks for BigFix Insights for Vulnerability Remediation.

Deploy Insights for Vulnerability Remediation

Download BigFix Insights for Vulnerability Remediation Reports

Manage BigFix Insights for Vulnerability Remediation Datasources

Manage BigFix Insights for Vulnerability Remediation ETLs

Manage BigFix Insights for Vulnerability Remediation Service

Uninstall BigFix Insights for Vulnerability Remediation

Upgrade BigFix Insights for Vulnerability Remediation

Whitelist Report Download URLs of BigFix Insights for Vulnerability Remediation

#### **Deploy Insights for Vulnerability Remediation**

Tenable.io

Tenable.sc

Qualys

#### **Download BigFix Insights for Vulnerability Remediation Reports**

Use this task to deploy the reports for PowerBI or Tableau platform.

BigFix Insights for Vulnerability Remediation provides business intelligence reports to address three main use cases:

- 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 does not see an applicable remediation.

Reporting fixlet uses dynamic downloading. To download the report, ensure that specific URL is added in the DownloadWhitelist.txt:

- Tenable.io
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_PowerBI\_Tenableio.tmp
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_Tableau\_Tenableio.tmp

- Tenable.sc
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_PowerBI\_Tenable.tmp
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_Tableau\_Tenable.tmp
- · Qualys
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_PowerBI\_Qualys.tmp
  - http://software.bigfix.com/download/ivr/1.4/Dashboards\_Tableau\_Qualys.tmp

The location of the file on the BigFix server is:

C:\Program Files (x86)\BigFix Enterprise\BES Server\Mirror Server\Config

If the file does not exist, create a new one with the same name. The file should contain file formats such as the following:

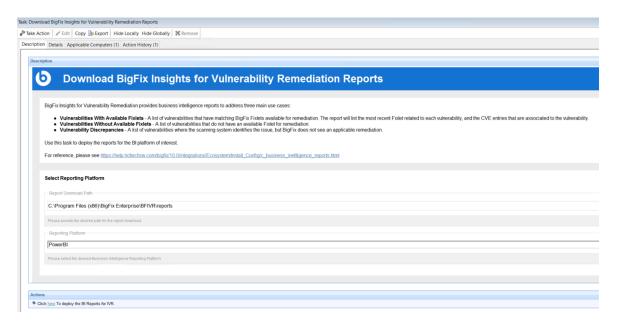
http://127.0.0.1:52311/.\*

http://software\.bigfix\.com/.\*

Refer to the following link to find out more about Dynamic download White-lists.



**Note:** To use this task, you must have only one instance of IVR Dataflows service deployed in this environment.

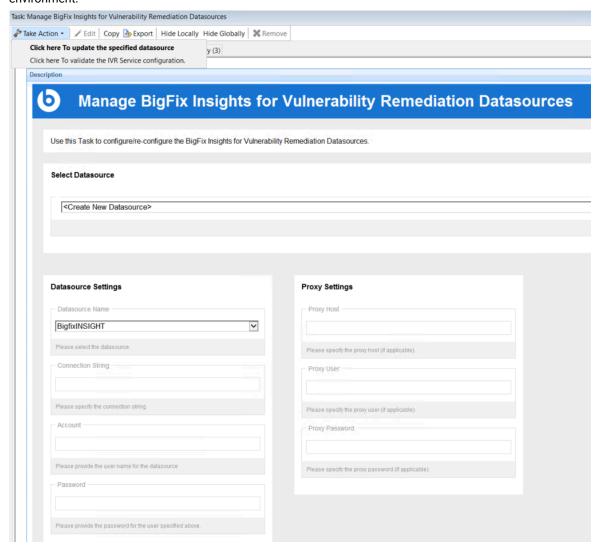


#### Manage BigFix Insights for Vulnerability Remediation Datasources

You can use this task to update the specified datasouce or validate the IVR Service configuration. This task additionally provides option to specify proxy settings configuration for respective datasources.



**Note:** To use this task, you must have only one instance of IVR Dataflows service deployed in this environment.

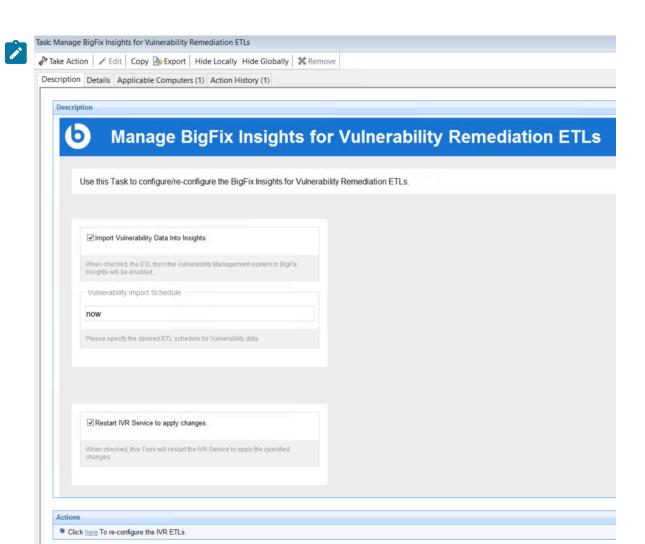


#### Manage BigFix Insights for Vulnerability Remediation ETLs

Use this task to configure/re-configure the BigFix Insights for Vulnerability Remediation ETLs. You can also use this fixlet to restart the IVR Service.



**Note:** To use this task, you must have only one instance of IVR Dataflows service deployed in this environment.



#### Manage BigFix Insights for Vulnerability Remediation Service

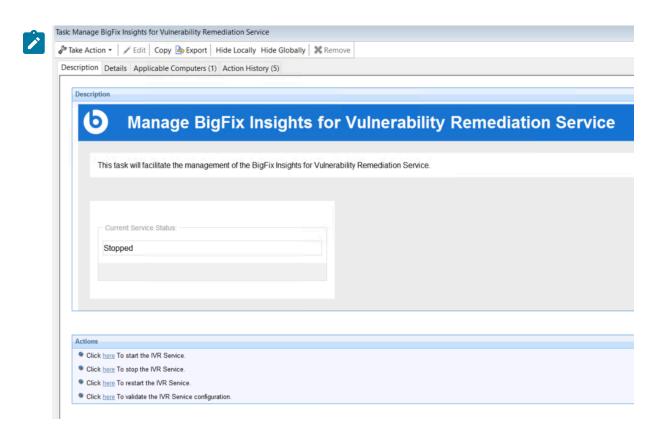
This task facilitates the management of the BigFix Insights for Vulnerability Remediation Service. You can use this task to Start, Stop, Restart or validate the configuration of the IVR Service.



**Note:** It is always recommended to stop the service before making any update on datasource or ETL fixlet to the already deployed service and then restart the service to apply the latest changes.

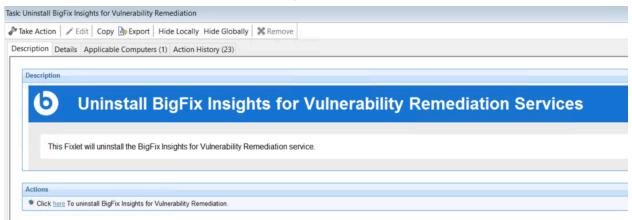


**Note:** To use this task, you must have only one instance of IVR Dataflows service deployed in this environment.



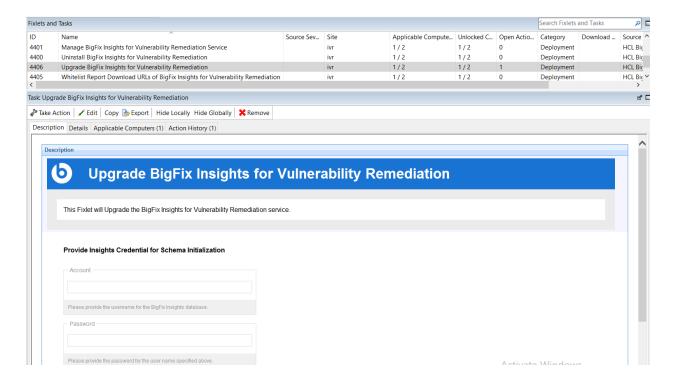
#### **Uninstall BigFix Insights for Vulnerability Remediation**

This Fixlet uninstalls the BigFix Insights for Vulnerability Remediation service.



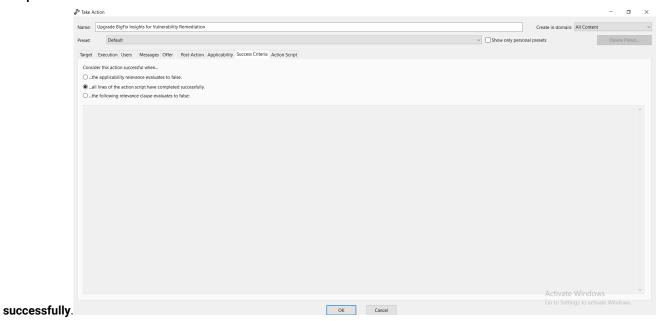
#### **Upgrade BigFix Insights for Vunerability Remediation**

The Fixlet will upgrade the BigFix Insights for Vulnerability Remediation service.



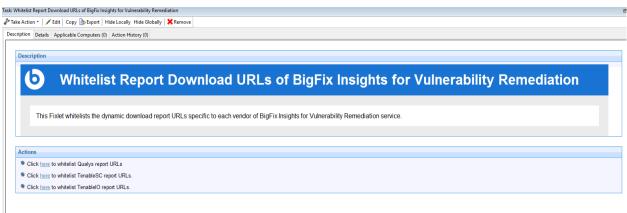


# Note: Before you install the Fixlet, go to Success Criteria tab and select all lines of the action script have completed



#### Whitelist Report Download URLs of BigFix Insights for Vulnerability Remediation

This Fixlet whitelists the dynamic download report URLs specific to each vendor of BigFix Insights for Vulnerability Remediation



service.

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