



# Software Vulnerability Manager (Cloud Edition)

User Guide

# Legal Information

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# Software Vulnerability Manager (Cloud Edition) Help Library

Flexera's Software Vulnerability Manager is a Vulnerability and Patch Management Software Solution that facilitates a customized Patch Management process. It combines Vulnerability Intelligence, Vulnerability Scanning, and Patch Creation with Patch Deployment Tool Integration to enable targeted, reliable, and cost-efficient Patch Management.

Vulnerability and Patch Management are critical components of any security infrastructure because it enables proactive detection and remediation of vulnerabilities before they are actively exploited and your security compromised. With Software Vulnerability Manager, IT Operations and Security Teams are empowered to prevent vulnerability threats from both Microsoft and non-Microsoft (third-party) product vulnerabilities, covering Microsoft Windows, Mac OS, and Red Hat Enterprise Linux.

Software Vulnerability Manager integrates seamlessly with Microsoft® WSUS and System Center Configuration Manager.

**Table 1-1 •** Software Vulnerability Manager Cloud Edition Help Library

Topic	Content
<b>Introduction</b>	Provides an overview of Software Vulnerability Manager: <ul style="list-style-type: none"><li>• <a href="#">The Scan Process – How Does it Work?</a></li><li>• <a href="#">Software Vulnerability Manager Software Vulnerability Management Life Cycle</a></li><li>• <a href="#">System Requirements</a></li><li>• <a href="#">System Architecture Overview</a></li></ul>

**Table 1-1 •** Software Vulnerability Manager Cloud Edition Help Library (cont.)

Topic	Content
<b>Getting Started with Software Vulnerability Manager Cloud Edition</b>	<p>Provides details of how to perform the following tasks:</p> <ul style="list-style-type: none"> <li>● <a href="#">Logging on to Software Vulnerability Manager Cloud Edition</a></li> <li>● <a href="#">Opening a Support Case</a></li> <li>● <a href="#">Download and Install the Software Vulnerability Manager Plug-in</a></li> <li>● <a href="#">Download and Install the Software Vulnerability Manager Daemon</a></li> <li>● <a href="#">Download and Install the System Center Plug-in</a></li> <li>● <a href="#">Download and Install the Software Vulnerability Manager Patch Publisher</a></li> <li>● <a href="#">Download and Install the Software Vulnerability Manager Client ToolKit</a></li> <li>● <a href="#">Join Flexera's Customer Community</a></li> </ul>
<b>The Dashboard</b>	<p>Provides an overview of your hosts with the help of various “portlets”. Portlets are a collection of components that graphically display key data and allow you to create profiles which can display a unique combination of portlets.</p>
<b>Agent Details</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>● <a href="#">Agent Administrative Privileges</a></li> <li>● <a href="#">Agent Data Collection</a></li> <li>● <a href="#">Agent Thread Priority</a></li> <li>● <a href="#">Agent Caching of Scan Rules</a></li> </ul>

**Table 1-1 •** Software Vulnerability Manager Cloud Edition Help Library (cont.)

Topic	Content
<b>Scanning</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>● <a href="#">Agent-based Scan – Requirements for Windows</a></li> <li>● <a href="#">Agent-based Scan – Requirements for Mac OS X</a></li> <li>● <a href="#">Agent-based Scan – Requirements for Red Hat Enterprise Linux (RHEL)</a></li> <li>● <a href="#">Remote/Agent-less Scan – Requirements (Windows)</a></li> <li>● <a href="#">Remote Scanning Via Software Vulnerability Manager (Agent-less Scan)</a></li> <li>● <a href="#">System Center Inventory Import</a></li> <li>● <a href="#">Remote Scanning Via Agents</a></li> <li>● <a href="#">Software Vulnerability Manager Agent Command Line Options</a></li> <li>● <a href="#">Network Appliance Agents</a></li> <li>● <a href="#">Scanning Via Local Agents</a></li> <li>● <a href="#">Run Scan from System Center Configuration Manager (SCCM)</a></li> <li>● <a href="#">Scanning Mac OS X</a></li> <li>● <a href="#">Scanning Red Hat Enterprise Linux (RHEL)</a></li> <li>● <a href="#">Filter Scan Results</a></li> <li>● <a href="#">Completed Scans</a></li> </ul>
<b>Results</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>● <a href="#">Sites</a></li> <li>● <a href="#">Smart Groups</a></li> <li>● <a href="#">Host Smart Groups</a></li> <li>● <a href="#">Product Smart Groups</a></li> <li>● <a href="#">Advisory Smart Groups</a></li> </ul>
<b>Reporting</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>● <a href="#">Report Configuration</a></li> <li>● <a href="#">Smart Group Notifications</a></li> <li>● <a href="#">Activity Log Notifications</a></li> <li>● <a href="#">Database Access</a></li> <li>● <a href="#">Scheduled Exports</a></li> </ul>

**Table 1-1** • Software Vulnerability Manager Cloud Edition Help Library (cont.)

Topic	Content
<b>Patching</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>• <a href="#">Flexera Package System (SPS)</a></li> <li>• <a href="#">Creating a Patch with the Flexera Software Package System (SPS)</a></li> <li>• <a href="#">The SPS Package Creation Wizard</a></li> <li>• <a href="#">Vendor Patch Module</a></li> <li>• <a href="#">Agent Deployment</a></li> <li>• <a href="#">External Package Signing for Software Vulnerability Manager Client Toolkit</a></li> <li>• <a href="#">Add Proxy Settings</a></li> <li>• <a href="#">WSUS/System Center</a></li> <li>• <a href="#">Creating the WSUS-CSI GPO Manually</a></li> <li>• <a href="#">Deploying the Update Package Using WSUS</a></li> <li>• <a href="#">Deploying the Update Package Using System Center</a></li> <li>• <a href="#">Integrate SVM with WSUS/SCCM and Deploy a Patch</a></li> <li>• <a href="#">Patch Configuration</a></li> <li>• <a href="#">Patch Template</a></li> <li>• <a href="#">QuickPatch</a></li> <li>• <a href="#">Patch Automation</a></li> <li>• <a href="#">Intune Publishing</a></li> <li>• <a href="#">Workspace ONE Publishing</a></li> </ul>
<b>Administration</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>• <a href="#">Roles</a></li> <li>• <a href="#">User Management</a></li> <li>• <a href="#">Active Directory (Requires the Software Vulnerability Manager Plug-in)</a></li> <li>• <a href="#">IP Access Management (Requires the Software Vulnerability Manager Plug-in)</a></li> <li>• <a href="#">Password Policy Configuration</a></li> </ul>
<b>Configuration</b>	<p>Provides details on the following:</p> <ul style="list-style-type: none"> <li>• <a href="#">Settings</a></li> <li>• <a href="#">Log Messages</a></li> <li>• <a href="#">Activity Log</a></li> <li>• <a href="#">Suggest Software</a></li> <li>• <a href="#">Security</a></li> </ul>



**Table 1-1 •** Software Vulnerability Manager Cloud Edition Help Library (cont.)

Topic	Content
<b>Appendix A - Partition Management</b>	Provides an <a href="#">Introduction</a> and details of <a href="#">Partition Management</a> .
<b>Appendix B - About Secunia Advisories</b>	Explains Secunia Advisory terminology for: <ul style="list-style-type: none"> <li>● <a href="#">CVSS (Common Vulnerability Scoring System)</a></li> <li>● <a href="#">CVE References</a></li> <li>● <a href="#">Where (Attack Vector)</a></li> <li>● <a href="#">Criticality (Severity Rating)</a></li> <li>● <a href="#">Impact (Consequence)</a></li> </ul>
<b>Appendix C - CSV Export File Cross-References</b>	When you export data from the Software Vulnerability Manager user interface to a CSV file, some values may differ. Each data set in this appendix includes a cross-reference table to explain the different values between the user interface and CSV file.
<b>Appendix D - Threat Intelligence</b>	This appendix explains how the Software Vulnerability Manager Threat Intelligence module helps the enterprises to manage their resources and Patching Vulnerabilities more effectively.
<b>Appendix E - Troubleshooting Techniques</b>	This appendix explains the troubleshooting techniques of the Software Vulnerability Manager.

## Product Support Resources

The following resources are available to assist you with using this product:

- [Flexera Product Documentation](#)
- [Flexera Community](#)
- [Flexera Learning Center](#)
- [Flexera Support](#)

### Flexera Product Documentation

Help is available from the Software Vulnerability Manager interface help icon located at the top right of the screen or click fields labeled with a “(?)” to access the contextual help.

You can find documentation for all Flexera products on the [Flexera Product Documentation](#) site:

<https://docs.flexera.com>

## Flexera Community

On the [Flexera Community](https://community.flexera.com) site, you can quickly find answers to your questions by searching content from other customers, product experts, and thought leaders. You can also post questions on discussion forums for experts to answer. For each of Flexera's product solutions, you can access forums, blog posts, and knowledge base articles.

<https://community.flexera.com>

## Flexera Learning Center

Flexera offers a variety of training courses—both instructor-led and online—to help you understand how to quickly get the most out of your Flexera products. The Flexera Learning Center offers free, self-guided, online training classes. You can also choose to participate in structured classroom training delivered as public classes. You can find a complete list of both online content and public instructor-led training in the Learning Center.

<https://learn.flexera.com>

## Flexera Support

For customers who have purchased a maintenance contract for their product(s), you can submit a support case or check the status of an existing case by making selections on the **Get Support** menu of the Flexera Community.

<https://community.flexera.com>

# Contact Us

Flexera is headquartered in Itasca, Illinois, and has offices worldwide. To contact us or to learn more about our products, visit our website at:

<http://www.flexera.com>

You can also follow us on social media:

- [Twitter](#)
- [Facebook](#)
- [LinkedIn](#)
- [YouTube](#)
- [Instagram](#)

# Introduction

This chapter introduces the following topics:

- [The Scan Process – How Does it Work?](#)
- [Software Vulnerability Manager Software Vulnerability Management Life Cycle](#)
- [System Requirements](#)
- [System Architecture Overview](#)

## The Scan Process – How Does it Work?

The first step in scanning a system is to collect specific metadata from primarily .EXE, .DLL, and .OCX files on the system being scanned. Metadata is generic non-sensitive text strings embedded in the binary files from the vendors of the products. This data is collected and then sent to our Secure Data Processing Cloud where it is processed and parsed.

The data is then matched against our File Signatures, which are rules that match the raw metadata to an actual product installation.

Part of this matching process also results in an exact version being extracted from the metadata. This means that after the initial parsing Software Vulnerability Manager knows exactly which products are on the system and their exact version – a precise inventory of software on the system.

The inventory of software is then compared against the unique Secunia Advisory and Vulnerability Database, which contains the most accurate and current Vulnerability Intelligence available.

The result is a precise inventory of products, their versions, the security state of each, along with a direct reference to any corresponding Secunia Advisory detailing the exact vulnerabilities and their Secunia assessed criticality and impact.

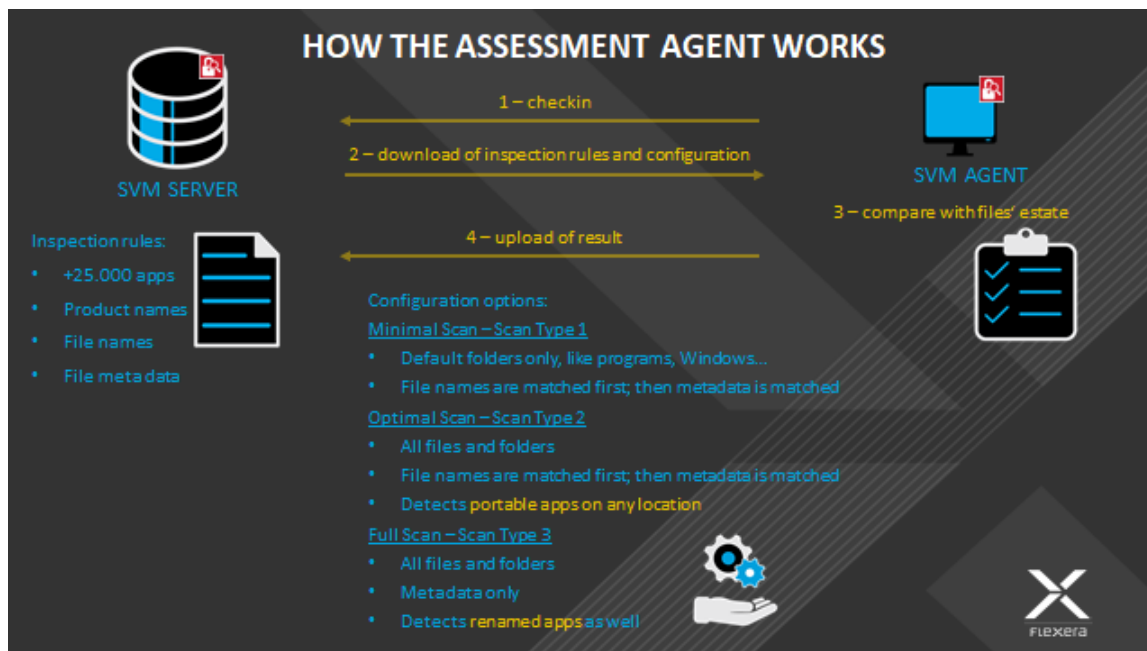
Since the scan process works by looking at the actual files on the system being scanned, the result is extremely reliable as a product cannot be installed on a system without the actual files required being present.

This in turn means that Software Vulnerability Manager rarely identifies false-positives and you can use the results from Software Vulnerability Manager immediately without doing additional data mining.

Software Vulnerability Manager is flexible and scalable when it comes to scanning a corporate network and you can choose to use Agent, Agent-less, or a combination of both scanning methods in the same environment.

For further information about the different Software Vulnerability Manager scanning approaches, see [Scanning](#).

The graphic below summarizes how the Software Vulnerability Manager Agent works and compares the three [Scan Types](#).

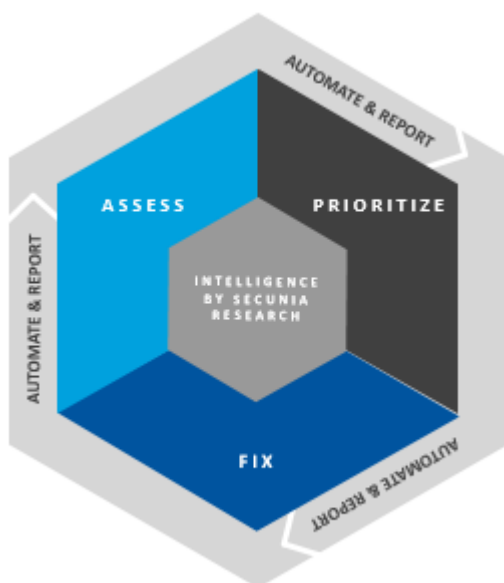


## Software Vulnerability Manager Software Vulnerability Management Life Cycle

Software vulnerability management is a critical component of any security infrastructure because it enables proactive detection and remediation of security vulnerabilities.

A process to identify vulnerable products, including products not authorized in an organization's environment, paired with effective patch management is an absolute must to reduce the window of exposure and eliminate the root cause of a potential compromise.

Software Vulnerability Manager automates all steps of the software vulnerability management life cycle, allowing organizations to strengthen the security of their networks.



## System Requirements

To use the Software Vulnerability Manager console, your system should meet the following requirements:

- Minimum resolution: 1280x1024
- Internet Explorer 11 or higher (Scan results can also be viewed from other browsers)
- Internet connection capable of connecting to <https://csi7.secunia.com>
- The following addresses should be allow-listed in the Firewall/Proxy configuration:
  - New CRL distribution URLs:
    - [http://\\*.amazontrust.com](http://*.amazontrust.com)
    - <http://s.ss2.us>
  - If you require explicit URLs then allow below URLs:
    - <http://crl.rootca1.amazontrust.com>
    - <http://crl.sca1b.amazontrust.com>
    - <http://crl.rootg2.amazontrust.com>
    - <http://s.ss2.us>
  - Product URLs:
    - <https://csi7.secunia.com>
    - <https://agent.csi7.secunia.com>
    - <https://dl.csi7.secunia.com>
    - [https://\\*.secunia.com](https://*.secunia.com)



- Timestamp URL:
  - <http://timestamp.digicert.com>



**Note** • We recommend allowing domain name ([timestamp.digicert.com](http://timestamp.digicert.com)).

- First-Party cookie settings at least to Prompt (in Internet Explorer)
- Allow session cookies
- A PDF reader

Before starting Software Vulnerability Manager, the following should also be present:

- [Permissions](#)
- [Software Vulnerability Manager with Scanning and Patching Capabilities](#)

## Permissions

- Connect and Select permissions to the user (or service account) at the SQL Server Host of your System Center database. See [Download and Install the Software Vulnerability Manager Daemon](#).
- WSUS Administrator Group privileges (located locally on your WSUS Server)
- (Optional) Domain Administrator privileges for Group Policy Object creation - however the Group Policy Object can be created manually. This is a one-time configuration so the rights are not required on a permanent basis.

## Software Vulnerability Manager with Scanning and Patching Capabilities



### Task

**To successfully scan and create updates, the following should also be present when using Software Vulnerability Manager:**

1. Internet Explorer 11 or higher with Software Vulnerability Manager Plug-in installed (in order for Software Vulnerability Manager to connect to WSUS and to create packages successfully, Internet Explorer must be run as administrator in most cases - right-click and select Run as administrator).
2. In Internet Explorer **Tools > Internet options > Advanced**, ensure **Use TLS 1.2** are selected.
3. WSUS Administration Console matching your WSUS server's version.
4. Visual C++ Redistributable for Visual Studio 2012.
5. Microsoft .NET Framework runtime 4 or later.
6. If the WSUS Self-Signed Certificate is going to be used, and the user wishes to provision the certificate through the Patching > WSUS/System Center > Deployment function, Remote Registry service must be enabled on the clients.
7. Select the target hosts where the certificate is to be installed (CTRL+ mouse click for multiple selection), right-click and select Verify and Install Certificate.



**Note** • If your organization allows specific URL to access to the Internet, and you are having problems downloading or verifying a patch, ensure the CRLs are allowed; examine the logs to identify the download's source, and examine the certificate at that address for its CRL distribution points.



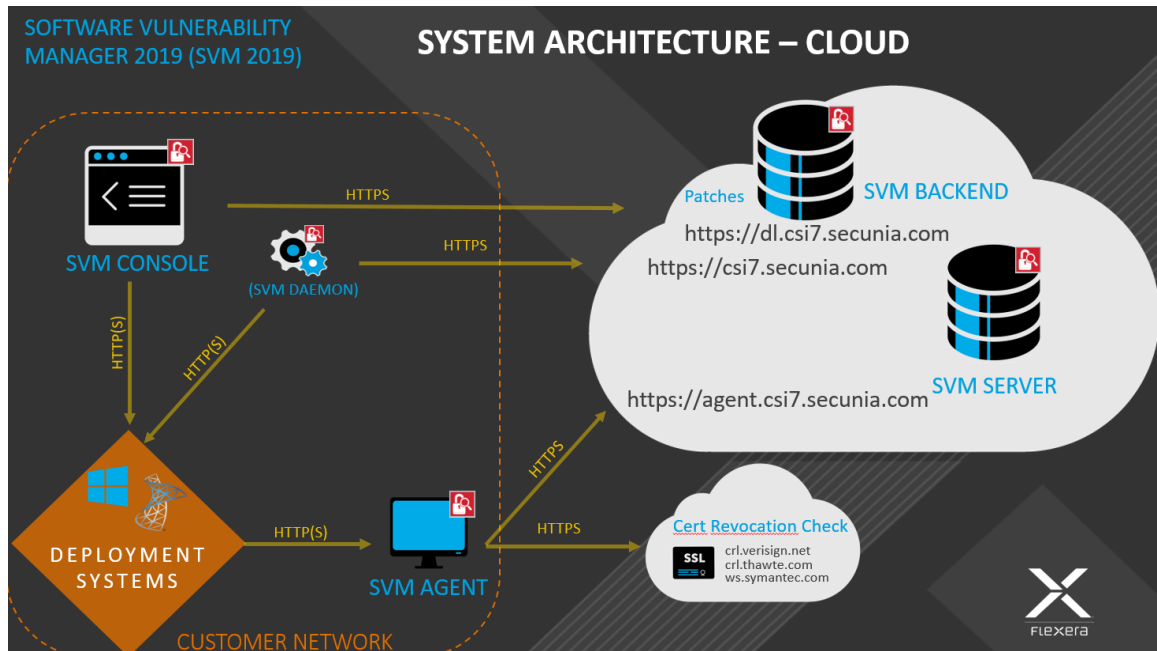
**Task**

**To successfully run patching on Windows 8.1 and Server 2012 R2:**

1. On the Windows Server machine, from the Server Manager, go to Add Roles & Features > Features.
2. Select the Appropriate Installation Type (Role-Based & Feature Based as opposed to Remote Desktop Services Installation).
3. Select the local server as the Destination Server for the installation.
4. Click Next to bypass the Server Roles menu and go to the Features menu.
5. Within the Features menu, scroll down the list and find the Remote Server Administration Tools (RSAT).
6. Expand the RSAT feature menu and locate the Role Administration Tools list of features.
7. Expand the list and find Windows Server Update Services Tools.
8. Enable this feature and all additional sub-features listed underneath it (API and PowerShell cmdlets and User Interface Management Console).
9. Proceed to the end of the Add Roles & Features Wizard by clicking Next and then Install.
10. Restart Windows and launch Software Vulnerability Manager from a web browser (for example Internet Explorer).

## System Architecture Overview

The following screenshots provide a visual overview of the Software Vulnerability Manager system architecture.



# Getting Started with Software Vulnerability Manager Cloud Edition

Welcome to Flexera! Thank you for purchasing Software Vulnerability Manager Cloud Edition.

This help section walks you through the steps for getting started with Software Vulnerability Manager Cloud Edition:

- [Logging on to Software Vulnerability Manager Cloud Edition](#)
- [Opening a Support Case](#)
- [Download and Install the Software Vulnerability Manager Plug-in](#)
- [Download and Install the Software Vulnerability Manager Daemon](#)
- [Download and Install the System Center Plug-in](#)
- [Download and Install the Software Vulnerability Manager Patch Publisher](#)
- [Download and Install the Software Vulnerability Manager Client ToolKit](#)
- [Join Flexera's Customer Community](#)

## Logging on to Software Vulnerability Manager Cloud Edition

Software Vulnerability Manager is accessible via <https://csi7.secunia.com>.

You will be prompted for authentication with your user name/password. Please use the credentials supplied by Flexera personnel. The initial password issued by Flexera is a one-time only password that must be changed upon the first login. The new password must contain a minimum of eight characters, or comply with the criteria defined in your custom [Password Policy Configuration](#).



---

**Tip** • Once you have changed your password, please set up your [Password Recovery Settings](#), so that you can recover the Root Admin password without having to open a support case to have the password reset.



**Important** • For security purposes, Software Vulnerability Manager has a session timeout that will log you off after 2 hours of inactivity.

## Logging on to Software Vulnerability Manager Cloud Edition Using Single Sign-On

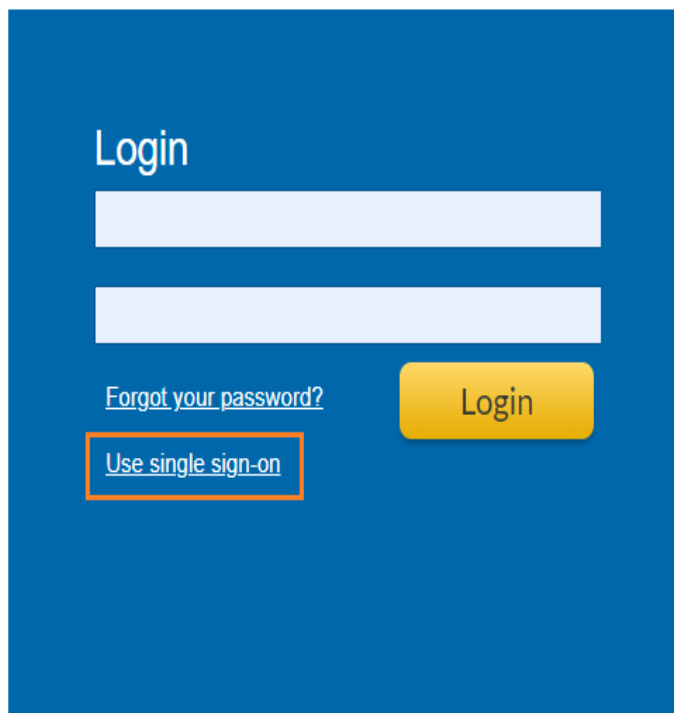
Perform the following steps to login to Software Vulnerability Manager using single sign-on for Azure SSO or Okta users.



### Task

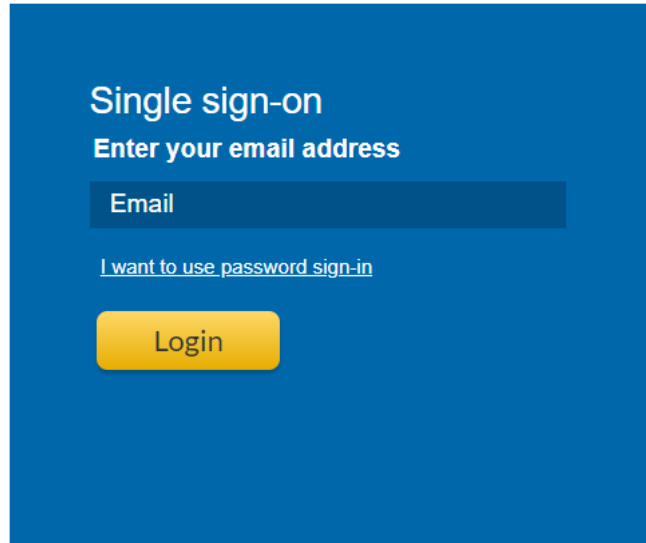
**To login to Software Vulnerability Manager using single sign-on:**

1. On the Login page, click **Use Single Sign-On**.



The **Single sign-on** login page prompts for authentication with your single sign-on email address.



A screenshot of a single sign-on login page. The page has a solid blue background. At the top, the text "Single sign-on" is displayed in white. Below it, the instruction "Enter your email address" is also in white. There is a white text input field with the placeholder text "Email". Below the input field, there is a link in white text that says "I want to use password sign-in". At the bottom, there is a yellow rectangular button with the word "Login" in black text.

2. Enter a valid email address and click **Login**.

Once logged in, the Identity Provider page prompts for authentication with your user name/password.

3. Enter your valid user name and password, and then click **Sign In**.

Upon successful login, Software Vulnerability Manager is accessible.



**Important** • For security purposes, Software Vulnerability Manager has a session timeout that will log you off after 2 hours of inactivity.

## Opening a Support Case

If you have any questions or concerns regarding your Software Vulnerability Manager Cloud account, please open a support case.

To watch the video which explains how to open a support case via Flexera's Customer Community, [click here](#).

## Download and Install the Software Vulnerability Manager Plug-in

The first time you login to Software Vulnerability Manager, click the link on the bottom of the page and follow the on-screen instructions to download and install the Software Vulnerability Manager Plug-in to enable scanning and patching. Please note that the Plug-in is only compatible with Internet Explorer version 8 or higher.

Software Vulnerability Manager Plug-in is installed locally and must be installed on the machine you are running the Software Vulnerability Manager console from. Once the Software Vulnerability Manager Plug-in has been installed the download link is removed from the page.

**Task**

***If Internet Explorer is blocking the ActiveX Plug-in, follow the steps below to allow it to load:***

1. Open Internet Explorer's **Internet options**.
2. Go to the **Security** tab.
3. Select **Trusted Sites**.
4. Add your server's IP or host name to the Trusted Sites.
5. Go back to the Security tab and click **Custom level**.
6. Scroll down to Initialize and script ActiveX controls not marked as safe for scripting and change the setting from Disable to **Prompt** or **Enable**.

## Download and Install the Software Vulnerability Manager Daemon

The Software Vulnerability Manager Daemon is a stand-alone executable that executes various schedules configured in the Software Vulnerability Manager console. It runs as a background service with no user interaction. To download the Daemon, [click here](#).

The Daemon integrates a number of local data sources in your network with the Flexera Cloud. It should be deployed to a node in the network that has high availability (for example, the server running the System Center or SQL server).

Once deployed, the Daemon will regularly scan the following data sources, based on the configuration created in Software Vulnerability Manager:

- Active Directory
- Microsoft® System Center Configuration Manager ("System Center") Imports
- Scheduled Exports
- WSUS State Change



**Important** • As the Daemon is connecting directly to the Flexera and System Center database servers unattended, Software Vulnerability Manager's System Center Inventory Import page should be configured to include System Center SQL Host, SQL Port and SQL Database connection details prior to the installation of the Daemon to enable the latter to start executing unattended schedules correctly and on time.

To be able to pass authentication at the SQL server during an unattended scheduled Import, the Daemon has to be installed and configured with a user account that has been specifically assigned with Connect/Select permissions at the SQL Server Management Studio software prior to the installation of the Daemon.

When scheduled imports require it, the Daemon connects directly to the System Center database. This may block upgrades of System Center. Before upgrading System Center, make sure to stop the Daemon service, and start it again after the upgrade to System Center is complete.

The Daemon should only be deployed once to avoid two instances competing to retrieve the schedules.

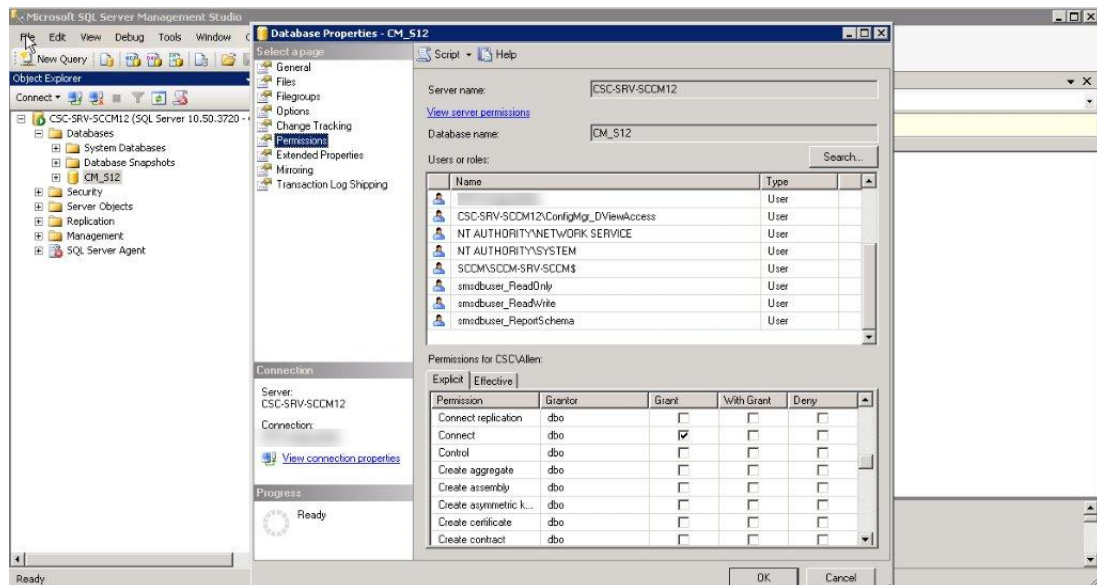
The user or service account that runs the Daemon must have:

- Run-as Service privileges
- Write permission on the location where the exports should be placed and log file written for scheduled CSV file output and log file creation
- Member of local WSUS group “WSUS Administrators”
- LDAP query privileges
- SqlDataReader privileges
- System Center Configuration Manager Read only Analyst privileges

**Task**

**To assign Connect and Select permissions to the user (or service account) that will be used to run the Daemon service:**

1. Open SQL Server Management Studio software at the SQL Server Host.
2. Expand Databases and find the name of your System Center database.
3. Right-click the database name and select **Properties**.
4. Enter the Permissions section from the left-hand side menu.
5. Find the account that will be used to install the Daemon and click on it.
6. While highlighted, review the **Explicit** permissions of the account below and find and select the **Connect** and **Select** check boxes.
7. Save the configuration and exit the SQL Server Management Studio.



**Task****To install the Daemon:**

1. Double-click the Daemon installer icon and follow the wizard instructions.



**Important** • To run the Daemon service successfully note the followings:

- SVM 2019 Daemon does not require elevated permissions to run once the service has been setup, but it requires that the installation of it is performed by an account that is at least **Local Administrator** on the machine where the service is to be installed.
  - The Daemon's service account must not be restricted by a GPO configuration the ability to logon to the server selected for installation of the Daemon. Such domain policy will prevent the Daemon to run as a service and would therefore prevent it to perform intended functionality.
2. Accept the End User License Agreement and click **Next**.
  3. Enter the Daemon Proxy Settings (host name, port, user name and password), if required. The values in populated fields are fetched from the current user's Internet Explorer proxy settings. Click **Next**.
  4. Enter the User Name and Password of your Software Vulnerability Manager account and click **Install**.



**Important** • The Daemon executes scheduled tasks configured in Software Vulnerability Manager. Therefore, the Software Vulnerability Manager user account used during the Daemon installation must to be the same one which set up the scheduled tasks in Software Vulnerability Manager. It can be a user account or an administrator account in Software Vulnerability Manager.

5. Enter the credentials for the user account (or service account) that was setup beforehand to grant access for the Daemon to the SQL Server Host. The user name must be entered in the <username>@<AD domain> format. Click **Next**.
6. Click **Finish** to close the Daemon setup.

For reference, the Daemon now outputs reports to a user-configured path. This path is set when the Daemon is installed and there is a page in the installer to configure the path. The file created at that path gets the data and time appended to its name, so for example, if the user sets the name to all\_hosts.csv in Software Vulnerability Manager, then the resulting file will actually be named all\_hosts\_2015-11-29\_13-00\_01.csv, or whatever the date and time were when the file was created.

Also note that, from Daemon version 2.0.0.6 onwards, if the user leaves the path empty when installing the Daemon, then exporting reports won't work at all. To fix this later, the user will have to reinstall the Daemon and set the path in the installer.

The Daemon uses the System Center SQL Database Settings that are specified in the Configure dialog. If those settings haven't yet been specified when the Daemon has been run then it will check for them again in 10 minutes and every 10 minutes afterwards until it gets them.

The Daemon checks with Flexera every 10 minutes to download new schedules or fetch changes to existing schedules as long as it is not in the process of processing scans and the results are displayed in Software Vulnerability Manager [Completed Scans](#) page.

**Task**

**To disable the daemon security protocol using (--ignore-crl, --ignore-ca, --ignore-cn), choose one of the following options:**

1. Add the security options to the image path of Windows service in the location:

System->CurrentControlSet->Flexera Software Corporate Inspector Daemon->ImagePath

Example of an ImagePath value:

"C:\Program Files\Flexera Software\Corporate Software Inspector Daemon\daemon.exe" --service-launch --ignore-crl --ignore-ca --ignore-cn -d c:\log.txt -v

Name	Type	Data
(Default)	REG_SZ	(value not set)
DelayedAutostart	REG_DWORD	0x00000001 (1)
Description	REG_SZ	Executes SC2012 Import Schedules for the Flexera Software SC2012 Plugin
DisplayName	REG_SZ	Flexera Corporate Software Inspector Daemon
ErrorControl	REG_DWORD	0x00000001 (1)
ImagePath	REG_EXPAND_SZ	"C:\Program Files\Flexera Software\Corporate Software Inspector Daemon\daemon.exe" --service-launch --ignore-crl --ignore-ca --ignore-cn -d c:\log.txt -v
ObjectName	REG_SZ	sqladm@rd12.lab
Start	REG_DWORD	0x00000002 (2)
Type	REG_DWORD	0x00000010 (16)

2. Add the following options to the Daemon registry key:

[HKEY\_CURRENT\_USER\SOFTWARE\Secunia\Daemon]

"IgnoreCRL"= dword:00000001

"IgnoreUnknownCA"= dword:00000001

"IgnoreInvalidCN"= dword:00000001

The daemon will add the registry entries when you install it along with the security options as follows:

Daemon.exe -i --ignore-crl --ignore-ca --ignore-cn -R username:password



**Note** • If you configure the registry settings manually, restart the service for the change to take effect.

## Download and Install the System Center Plug-in

The System Center Plug-in should be installed on the same machine that the System Center Configuration Manager console is installed. You can use the Plug-in on the System Center Configuration Manager Server or on a client machine where the console is installed.

Download the installer from <https://secuniaresearch.flexerasoftware.com/support/download/>.

Double-click the installer icon and follow the wizard instructions.

Launch the System Center Configuration Manager console. The Plug-in can be found under the **Software Library > Flexera Software** folder.

Login with your Software Vulnerability Manager Account credentials (User name/Password).

The machine should have access to [https://\\*.secunia.com](https://*.secunia.com).



**Tip** • You can define the sorting of both lines and columns in any grid view to create the layout that best suits your needs. Click the right hand side of any of the column headings to view the available display options. The column's position can be modified by dragging and dropping the selected column to the desired position.

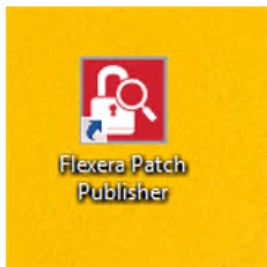


**Tip** • You can click **Export** in any grid view to save the displayed information as a CSV file. You can configure the file by hiding columns in the grids prior to export.

## Download and Install the Software Vulnerability Manager Patch Publisher

To ease SVM Patch Publisher, you must download and install Software Vulnerability Manager Patch Publisher ToolKit. To download this tool kit [click here](#).

Upon installing the new tool, SVM Patch Publisher shortcut will be created on the desktop to launch the tool.



### Prerequisites

The below prerequisites required to install Patch Publisher:

- OS Windows 8 or later
- Windows 2012 R2 or later
- .Net framework version 4.7.2 or later
- RSAT should be enable and needs to be installed
- Architecture - 64 bit operating systems
- You can install in Local admin/domain admin

### Download and Install the SVM Patch Publisher

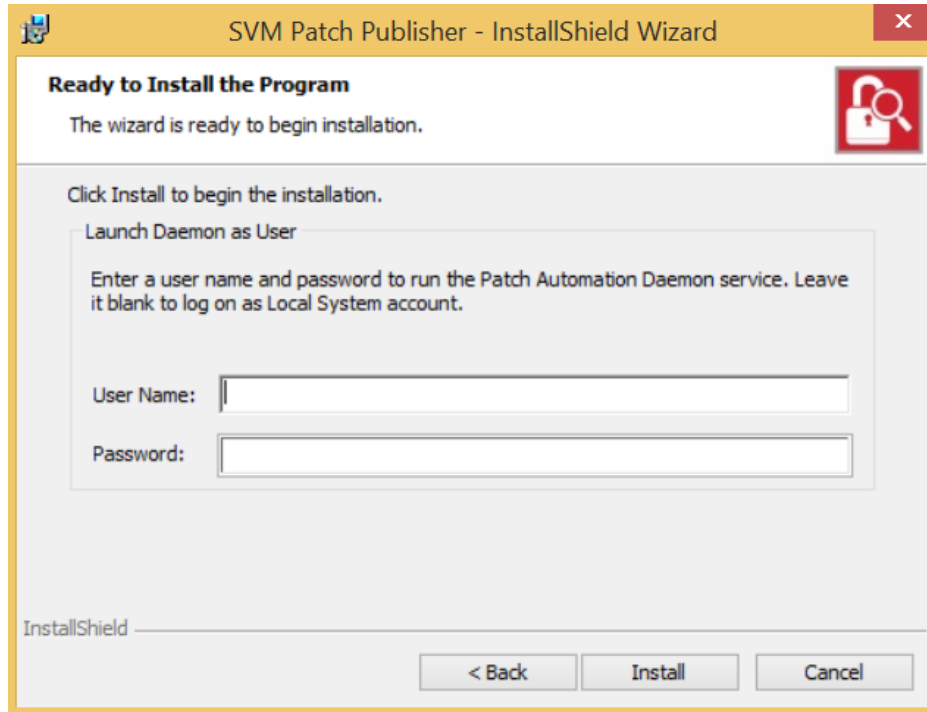
To download and install the SVM Patch Publisher perform the following steps.



**Task**

**To Download and install:**

1. Download the Software Vulnerability Manager Patch Publisher from the SVM Patch Publisher Tool Kit.
2. Double click the set up file, you will be prompted to enter credentials. Click **Install**.



**Tip** • On successful installation, one shortcut for Software Vulnerability Manager Patch Publisher will get created in your desktop.

3. On successful installation, click **Finish**. SVM Patch Publisher windows pane appears. For more information, see [SVM Patch Publisher](#).



**Note** • If you are migrating Patch Daemon to SVM Patch Publisher, make sure that the SVM Test connections and Distribution Connections are **Test & Saved**.

## SVM Patch Publisher

SVM Patch Publisher inherits its current functionalities from the Patch Daemon. SVM Patch Publisher enables you to configure connections to the SVM server and to the supported end point management systems. The tool polls SVM on a configured frequency to look for new patches resulting either from a manual publish or Patch Automation to publish patches to the specified end point management system.

The following section describes how to access the Patch Publisher.

- [Working with SVM Patch Publisher Interface](#)

- [SVM Connection Settings](#)
- [Distribution Systems](#)

The screenshot shows the SVM Patch Publisher application window. The title bar reads 'SVM Patch Publisher'. The interface has a dark blue header with a 'Home' button and a toolbar with icons for 'Restart Service', 'Force Check-In', 'Save', 'Help', 'Feedback', and 'About SVM Patch Publisher'. The left sidebar is titled 'Settings' and contains links for 'SVM Connection', 'Distribution Systems', 'Manage Patches (Coming soon)', and 'Patches'. The main content area is titled 'SVM Connection' and contains three sections: 'Properties', 'Check-In Settings', and 'Logging Settings'. The 'Properties' section includes fields for 'Server Type' (set to 'Cloud'), 'Site Url', 'Username', and 'Password'. The 'Check-In Settings' section includes a 'Check-In Frequency' field (set to 2 Days, 1 Hour, 10 Minutes) and a checkbox for 'Get all latest subscribed packages'. The 'Logging Settings' section includes a 'Log Level' dropdown (set to 'LogAlways') and a 'Log File' field (set to 'C:\ProgramData\Flexera Software\SVM Patch\svmpatch.log').

## Working with SVM Patch Publisher Interface

The SVM Patch Publisher interface has various UI elements. This section includes topics that explain how to perform basic tasks and the use of these elements.

- [Toolbar in the SVM Patch Publisher](#)
- [Output/Progress windows in the SVM Patch Publisher](#)

### Toolbar in the SVM Patch Publisher

The SVM Patch Publisher has the following ribbon buttons:

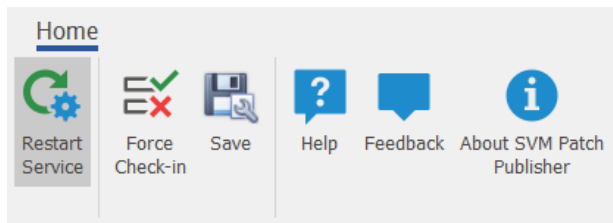
**Table 3-1 • SVM Patch Publisher / Ribbon Buttons**

Buttons	Description
<b>Restart Service</b>	Click to restart the daemon service for the changes to take effect. Upon clicking this button, the state of the service is checked.
<b>Fore Check-In</b>	Click and the pull the subscribed packages without waiting for the schedule time from the server for the Daemon service to execute.
<b>Save</b>	Click to save the changes to the settings file.
<b>Help</b>	Click to open the SVM help library.



**Table 3-1 • SVM Patch Publisher / Ribbon Buttons**

Buttons	Description
<b>Feedback</b>	Used to provide ideas and / or suggestions.
<b>About SVM Patch Publisher</b>	Click to launch the SVM Patch Publisher window and view the information about the tool.



## Output/Progress windows in the SVM Patch Publisher

When you perform any tasks like save, force check-in, and restart service on subscribed packages, the Output Window appears at the bottom of the interface.

- Lists the Errors, Warnings, and other log messages that are generated while perform a task on subscribed package.
- Displays logs while performing functional testing of the subscribed package.

## SVM Connection Settings

You can configure connections to the SVM server to the supported end point management systems. Perform the following steps to configure the SVM connections.



### Task

#### To configure SVM connection:

1. On Settings menu, click **SVM Connection** in the left pane.  
The **SVM Connection** page appears.
2. To configure the SVM connection, enter the following information:

Field	Description
<b>Server Type</b>	Select one of the following Server Type: <ul style="list-style-type: none"><li>• Cloud</li><li>• On-Prem</li></ul>
<b>Site URL</b>	Enter the URL for SVM Connection.
<b>Use SSL</b>	Select the Use SSL Connection check box if your SVM Connection is configured to accept SSL connections.

Field	Description
<b>Credentials</b>	Enter valid User Name and Password for the specific site url.
<b>Check-In Settings</b>	Set the frequencies to pull the relevant packages from the server.
<b>Get all latest subscribed packages</b>	Select if you want to get latest subscribed packages.
<b>Log Level</b>	Set one of the Log levels: <ul style="list-style-type: none"> <li>● LogAlways</li> <li>● Critical</li> <li>● Error</li> <li>● Warning</li> <li>● Informational</li> <li>● Verbose</li> </ul>
<b>Log File</b>	You can edit the folder path to save the action logs of this Tool. By default, the folder path will be C:\ProgramData\Flexera Software\SVM Patch\svmpatch.log
<b>Test &amp; Save Connection</b>	Click to test to see if the settings that you entered can be used to successfully connect to this SVM server.

- On successful connection you will receive a Token in the Output Window.

The screenshot shows the 'Settings' window of the 'About SVM Patch Publisher' application. The interface includes a top ribbon with buttons for 'Restart Service', 'Force Check-in', 'Save', 'Help', 'Feedback', and 'About SVM Patch Publisher'. The 'Settings' window has a left sidebar with 'SVM Connection' selected, and other options like 'Distribution Systems', 'Manage Patches (Coming soon)', and 'Patches'. The main area is divided into two tabs: 'SVM Connection' and 'Check-In Settings'. The 'SVM Connection' tab shows fields for 'Server Type' (set to 'Cloud'), 'Site Url', 'Use SSL' (checked), 'Username', and 'Password'. A 'Test & Save Connection' button is present. The 'Check-In Settings' tab shows 'Check-In Frequency' set to 0 Days, 0 Hours, and 15 Minutes, and a checkbox for 'Get all latest subscribed packages' which is checked. At the bottom, an 'Output' window displays the following log messages:

```
[07:54:19] Attempting to Connect to SVM Server: https://
[07:54:19] Successfully connected to:https://
[07:54:19] Connection Successful.
[07:54:19] Token fetched: Bll...
[07:54:19] Finished testing SVM connection.
```

- Click **Restart Service** ribbon for the change to take effect.

# Distribution Systems

In Distribution Systems, you can configure multiple distribution connections.

This section includes the following topics:

- [Adding a New Distribution Connection](#)
- [Deleting an Existing Distribution Connection](#)

## Adding a New Distribution Connection

You can add connections for the following Distribution Systems.

- [Adding Windows Server Update Services \(WSUS\) Connection](#)
- [Adding Microsoft Intune Connection](#)
- [Adding VMWare Workspace ONE Connection](#)

## Adding Windows Server Update Services (WSUS) Connection

To add Windows Server Update Services (WSUS) connection, perform the following steps.




### Task

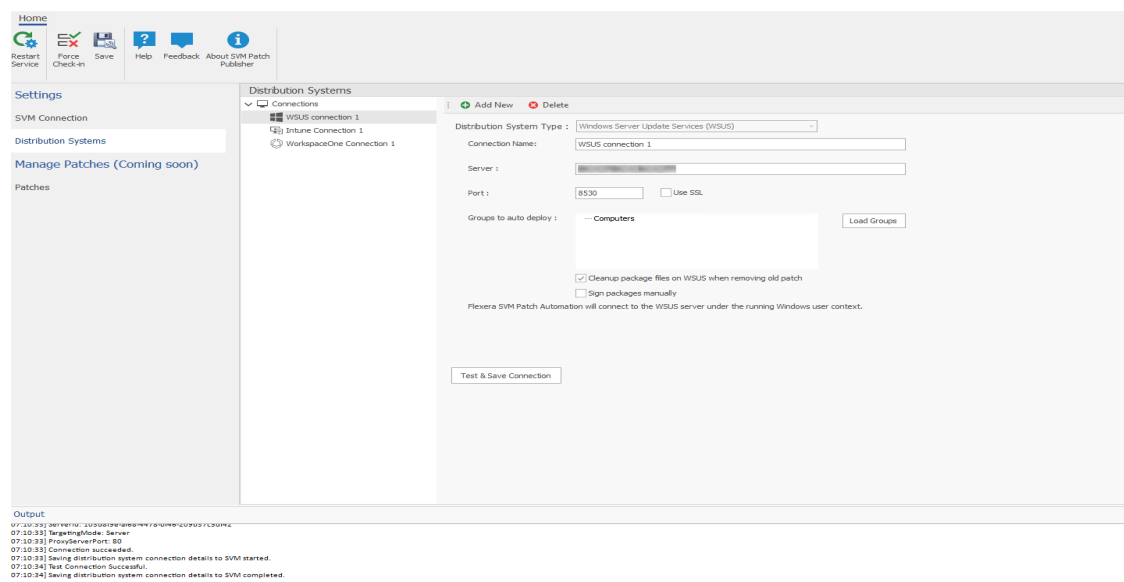
#### To add WSUS connection:

1. On **Settings** menu, click **Distribution Systems** in the left pane.  
The Distribution Systems pane appears.
2. Click **Add New**.
3. Use the following fields to add the Windows Server Update Services (WSUS) connection:

Field/Button	Description
<b>Distribution System Type</b>	Select distribution system type as <b>Windows Server Update Services (WSUS)</b> .
<b>Connection Name</b>	Enter the connection name.
<b>Server</b>	Enter the server details.
<b>Port</b>	Enter the port number.
<b>Use SSL</b>	Only select the Use SSL Connection check box if your WSUS is configured to accept SSL connections.
<b>Load Groups</b>	Click load group.

Field/Button	Description
<b>Groups to auto deploy</b>	Displays a list of computer groups configured in WSUS Server. Select the computer groups which you wanted to deploy the packages.   <b>Note</b> • Only displayed when Load Groups button is clicked.
<b>Cleanup packages files on WSUS when removing old patch</b>	If you enable, old package will be removed during the publish. By default this option will be unchecked.
<b>Sign packages manually</b>	Select <b>Sign package manually</b> check box to external package signing.

- Click the **Test & Save Connection** button to ensure the settings you entered can be used to successfully connect to this service. You will receive a successful message in the Output Window.



- On successful connection, the WSUS Distribution System is added to the connections.
- Restart the SVM Patch Publisher so that the selected groups will be assigned for the end point deployments.

## Adding Microsoft Intune Connection

To add Microsoft connection, perform the following steps.



### Task

#### To add Microsoft Intune connection:


- On **Settings** menu, click **Distribution Systems** in the left pane.  
The Distribution Systems pane appears.
- Click **Add New**.


- 3.** Use the following fields to add the Microsoft Intune connection:


Field	Description
Distribution System Type	Select distribution system type as <b>Microsoft Intune</b> .
Connection Name	Enter name of the connection.
Application (client) ID	Enter the registered application (client) id. For more information on generating Application (client) Id, see <a href="#">App Registration</a> .
Directory (tenant) ID	Enter the registered directory (tenant) id. For more information on generating Directory (tenant) Id, see <a href="#">App Registration</a> .
Client Secret	Enter client secret. For more information on generating Client Secret, see <a href="#">Create Client Secret</a> .
App Category	Enter the application category.
Assignment Groups	Choose a group or multiple groups and make assignments for end point deployments.


4. Click the **Test & Save Connection** button to ensure the settings you entered can be used to successfully connect to this service. You will receive a successful message in the Output Window.


Home


 Restart Service

 Force Check-in

 Save

 Help

 Feedback

 About SVM Patch Publisher

Settings

SVM Connection


Distribution Systems


Manage Patches (Coming soon)

Patches

Distribution Systems

Connections

 Intune Connection 1

 WorkspaceOne Connection 1

Add New

Delete

Distribution System Type : Microsoft Intune

Connection Name : Intune Connection 1

Application (client) ID : c91

Directory (tenant) ID : 7d

Client Secret : \*\*\*\*\*

App Category : Flexera Packages

Assignment Groups : SM\_32

Test & Save Connection

Output

09:09:17] attempting to connect to workspaceone server: https://c12329a0mhm.com/

09:09:17] Creating Workspace One authentication context.

09:09:17] Invoking Workspace API call.

09:09:17] Connection succeeded.

09:09:17] Saving distribution system connection details to SVM started.

09:09:18] Test Connection Successful.

09:09:18] Saving distribution system connection details to SVM completed.

- On successful connection, the Microsoft Intune Distribution System is added to the connections.
- Click **Restart Service** ribbon for the change to take effect.

## Adding VMWare Workspace ONE Connection


To add VMWare Workspace ONE connection, perform the following steps.



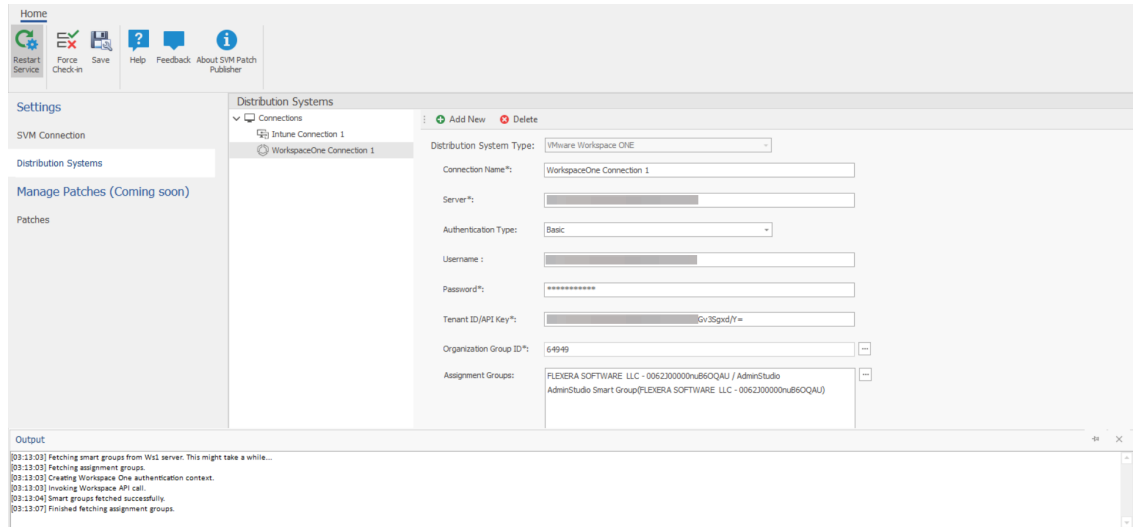
### Task

#### To add VMWare Microsoft Intune connection:

1. On **Settings** menu, click **Distribution Systems** in the left pane.  
The Distribution Systems pane appears.
2. Click **Add New**.
3. Use the following fields to add the VMWare Microsoft Intune connection:

Field	Description
<b>Distribution System Type</b>	Select distribution system type as <b>VMWare Workspace ONE</b> .
<b>Connection Name</b>	Enter connection name.
<b>Server</b>	Enter the server details.
<b>Authentication Type</b>	Select one of the authentication type: <ul style="list-style-type: none"><li>• Basic - If you select this authentication type, then enter the valid credentials of the VMWare Workspace ONE.</li><li>• Certificate - If you select this option, you can select the registered certificate.</li></ul> For more information, see <a href="#">Basic or Certificate Authentication Type</a> .
<b>Thumbprint</b>	Choose required certification for the authentication.  <b>Note</b> • This field appears only when you select Authentication Type as Certificate.
<b>Tenant ID/API Key</b>	Enter the registered tenant id. For more information, see <a href="#">Create Tenant ID / API Key</a> .
<b>Organization Group ID</b>	Choose the required organization group id.
<b>Assignment Groups</b>	Choose a group or multiple groups and make assignments for end point deployments. For more details, see <a href="#">VMWare Workspace ONE Assignment Groups</a> .

4. Click the **Test & Save Connection** button to ensure the settings you entered can be used to successfully connect to this service. You will receive a successful message in the Output Window.



5. On successful connection, the VMWare Workspace ONE Distribution System is added to the connections.
6. Click **Restart Service** ribbon for the change to take effect.

## VMWare Workspace ONE Assignment Groups

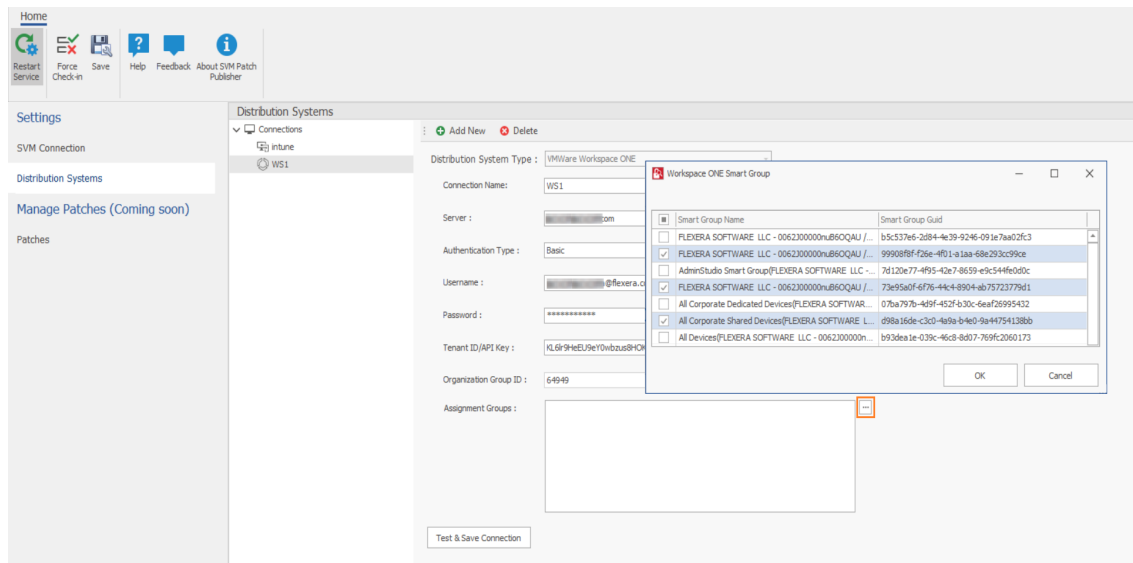
To make assignments for end point deployments in the SVM Patch Publisher for Workspace ONE publishing, perform the following steps.



### Task

**To make assignments for end point deployments in the SVM Patch Publisher:**

1. In Assignment Groups (optional) field, click context menu icon. The **Workspace ONE Smart Group** window appears. Select the desired groups from the list and then click **Ok**.





**Note** • Make sure that the Assignment Groups are selected before restating the service.

2. Click **Restart Service** ribbon for the change to take effect.
3. The selected groups will be assigned for the end point deployments.

## Deleting an Existing Distribution Connection

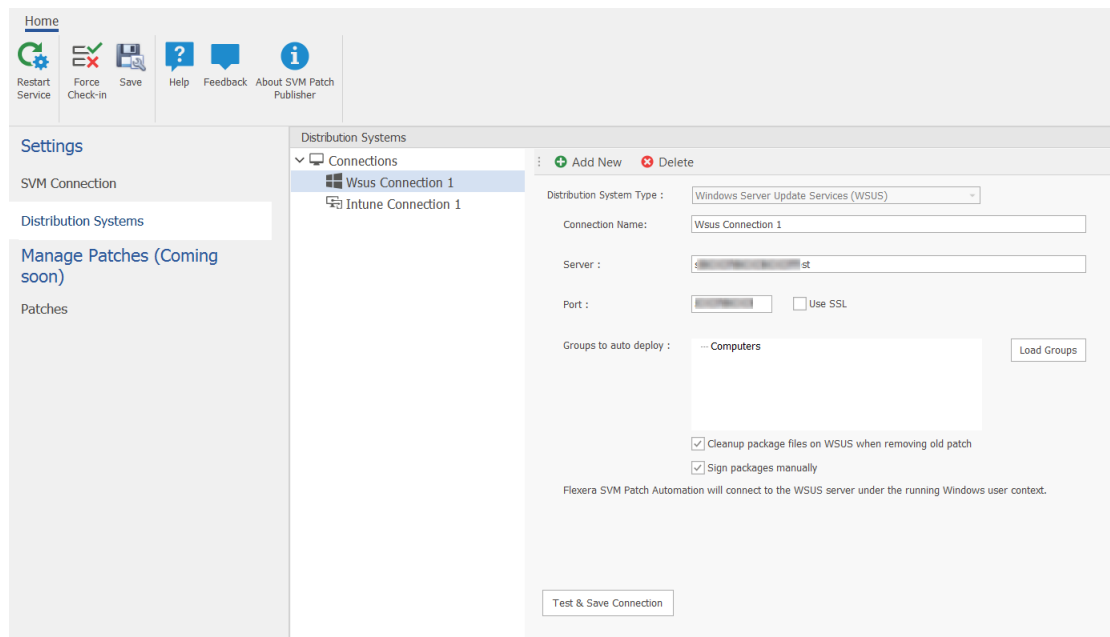
To delete an existing Distribution Connection, perform the following steps.



### Task

#### To delete a connection:

1. On the **Settings** menu, click **Distribution Systems**. The list of connections appears under the **Connections** pane.
2. Select required connection form the list and click **Delete**.



3. Click **Yes** and confirm to proceed the changes.
4. Upon confirming, the selected connection will be removed from the Connections pane.

## Download and Install the Software Vulnerability Manager Client ToolKit

To ease patch automation and WSUS management you must download and install **Software Vulnerability Manager Client ToolKit**. To download this tool kit, [click here](#).



**On successful installation of Software Vulnerability Manager Client ToolKit, below tools will get installed and their respective shortcuts will be created in your desktop.**

- Flexera SVM Patch Configuration
- Flexera WSUS Management Tool
- Flexera SVM Client Data Tool



**Important** • You must install **Software Vulnerability Manager Patch Client ToolKit** to utilize the Vendor Patch Module and SPS Automation, see [Automating Patch Deployment](#) and [Patch Automation](#).

## Prerequisites

The below prerequisites are required:

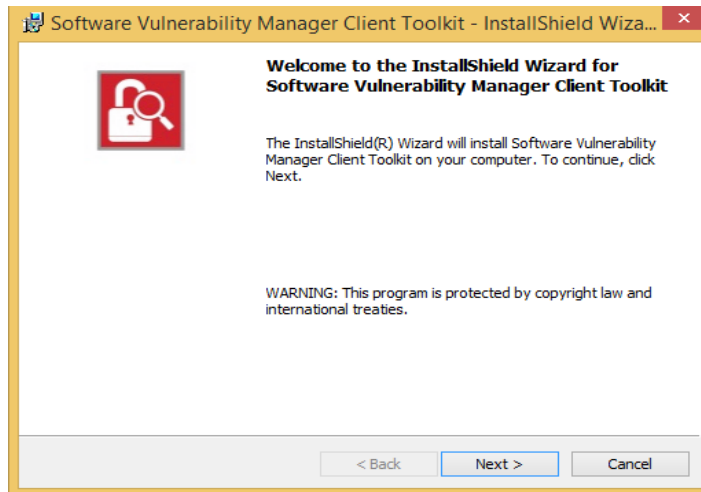
- 64 Bit Operating System. Windows 7 +
- Windows Server Update Services (WSUS) administrative console (RSAT) needs to be installed. You need to install the administrator tools version that corresponds to your WSUS server.
- Access Privileges to run the Daemon as a service.
- Access Privileges to makes changes to the WSUS server.
- Internet Connection – SSL/TCP to a SVM server.
- .Net Framework 4.6.1 or above.
- OS Requirements:
  - Install Software Vulnerability Manager Client ToolKit in Windows Server 2012 or Windows 8, for Windows 2012 WSUS.
  - Install Software Vulnerability Manager Client ToolKit in Windows Server 2016 or Windows 10, for Windows 2016 WSUS.
- Install both the Software Vulnerability Manager Client ToolKit and WSUS in the same domain.



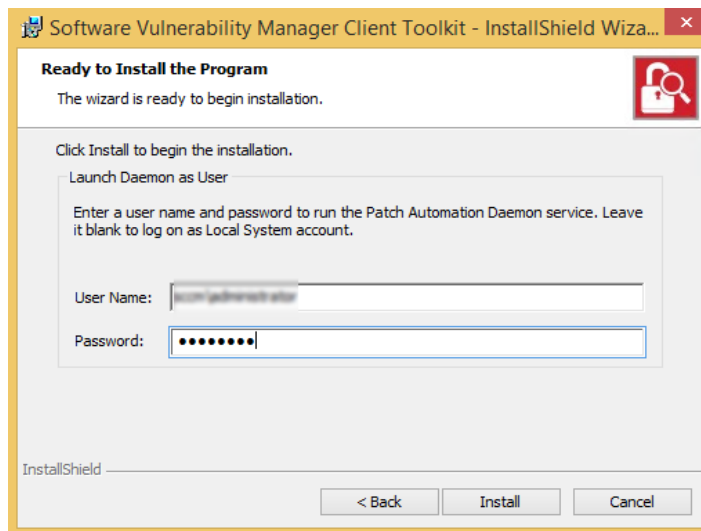
### Task

**To download and install the tool kit follow the below steps**

1. Download the Software Vulnerability Manager Patch Configuration Tool from the [SVM Tool Kit](#). Save it in your desired folder path.
2. Double click the set up file, welcome wizard appears. Click Next.



3. You will be prompted to enter your system credentials. Click **Install**.



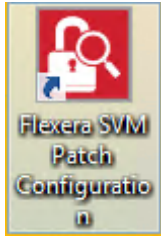
**Tip** • On successful installation, one shortcut for **Flexera Software Vulnerability Manager Patch Configuration** and one shortcut for **Flexera WSUS Management Tool** will get created in your desktop.

4. On successful installation, click Finish. **Flexera SVM Patch Configuration** windows pane appears, see [Flexera SVM Patch Configuration](#).

## Flexera SVM Patch Configuration

Flexera Software Vulnerability Manager Patch Configuration integrates Software Vulnerability Manager application with the configured WSUS server to achieve the automation for subscribed packages.

On successful installation of Software Vulnerability Manager Client ToolKit, a shortcut with a name **Flexera SVM Patch Configuration** will get created.



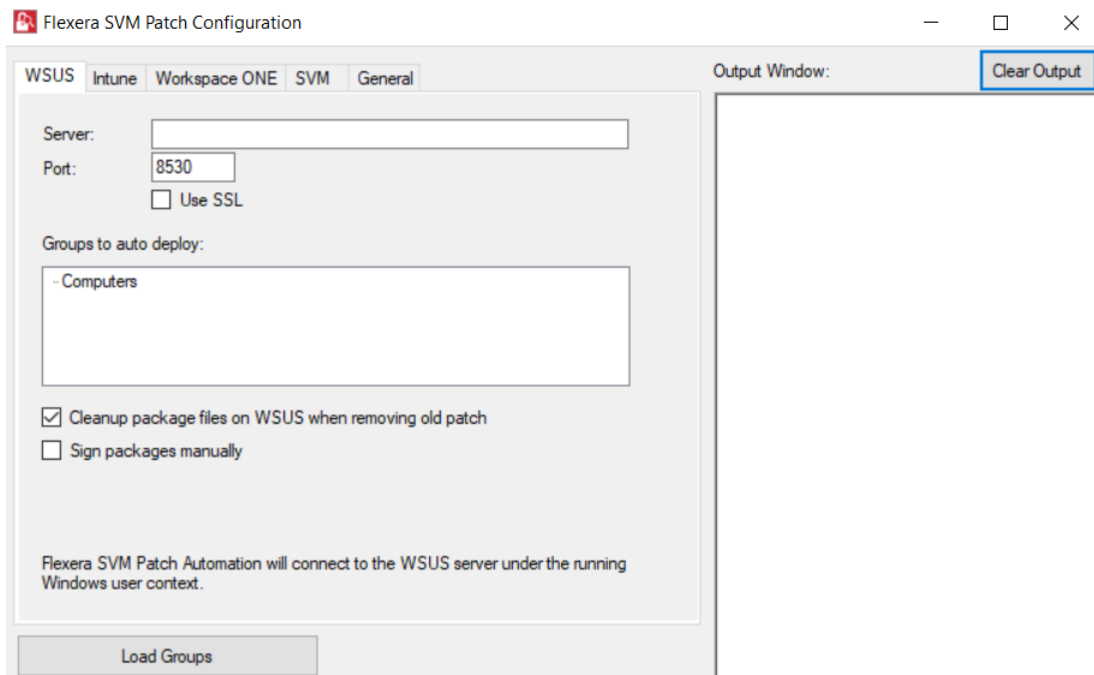
**Note** • You will get 400 error message when the SVM Token has expired. To re-generate the token, follow the steps as mentioned below in the SVM Connections (point 12 and 13).



#### Task

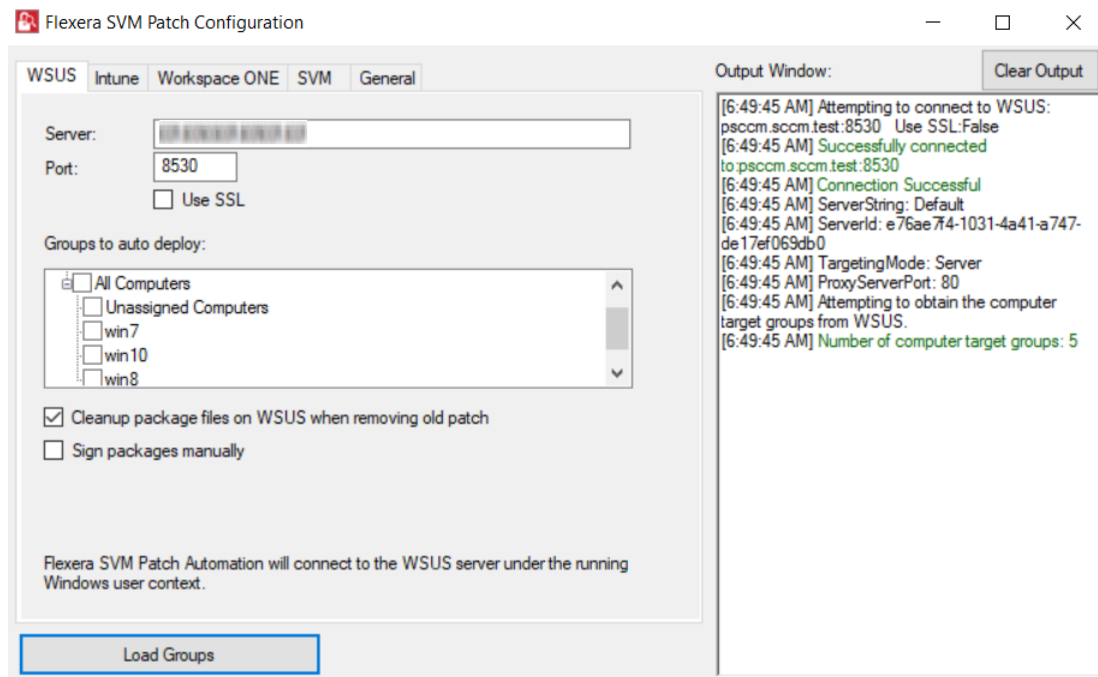
**To use Flexera Software Vulnerability Manager Patch Configuration follow the below steps:**

1. Double click on the shortcut created on your desktop, **Flexera SVM Patch Configuration** windows pane appears.
2. It consist of five tabs:
  - WSUS tab
  - Intune tab
  - Workspace ONE tab
  - SVM tab
  - General tab

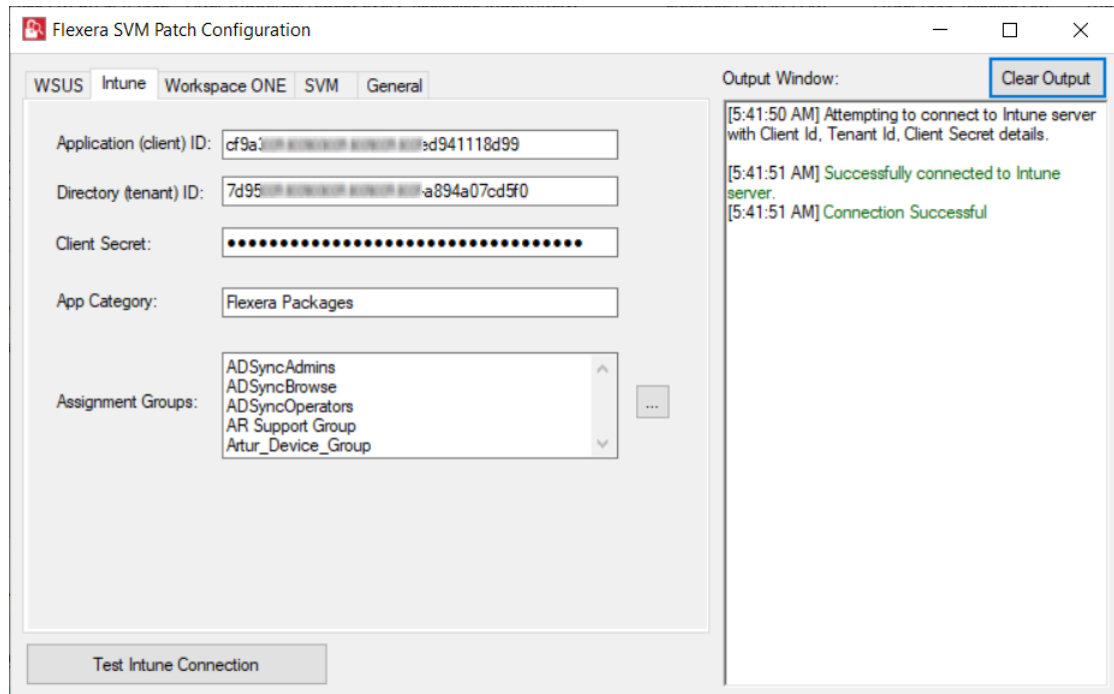


3. In **WSUS Connection** tab, enter the WSUS server details and the port number, click **Load Groups**.
4. In **Groups to auto deploy**, you can see the list of computer groups configured in WSUS Server.

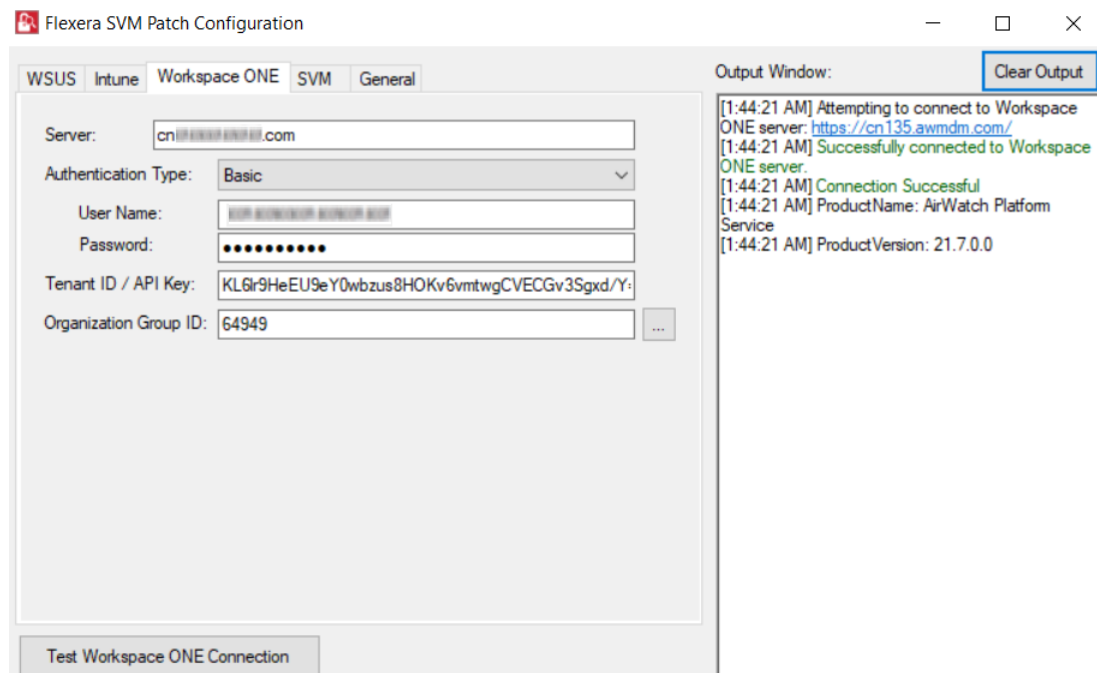
5. Select the computer groups which you wanted to deploy the packages. To know more about a package publishing, see [Automating Patch Deployment](#).
6. To external package signing, select **Sign package manually** option.



7. In **Intune Connection** tab, you will be prompted to enter your Intune credentials like Application (Client) ID, Directory (tenant), Client Secret. To know more details on configure Intune credentials, see [Set up a Distribution Connection in Flexera SVM Patch Configuration for Microsoft Intune](#).
8. In **Assignment Groups** (optional) field, choose a group or multiple groups and make assignments for end point deployments. For more information, see [Assignment Groups](#).
9. Click **Test Intune Connection** button, on successful connection you will receive a successful message in the Output Window.

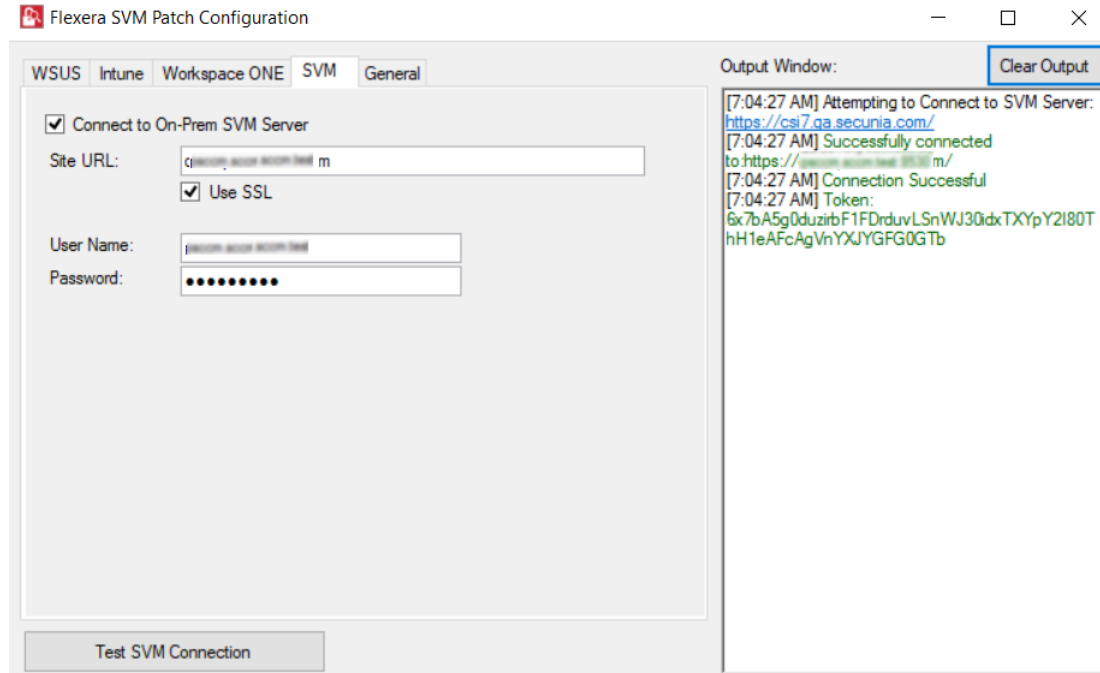


10. In Workspace ONE tab, you will be prompted to enter the valid Workspace ONE connection details like Server name, Authentication Type, Tenant ID/API Key, and selecting Organization Group ID. To know more details on configuration, see [Set up a Distribution Connection in Flexera SVM Patch Configuration for Workspace ONE](#).
11. Click **Test Workspace ONE Connection** button, on successful connection you will receive a successful message in the Output Window.



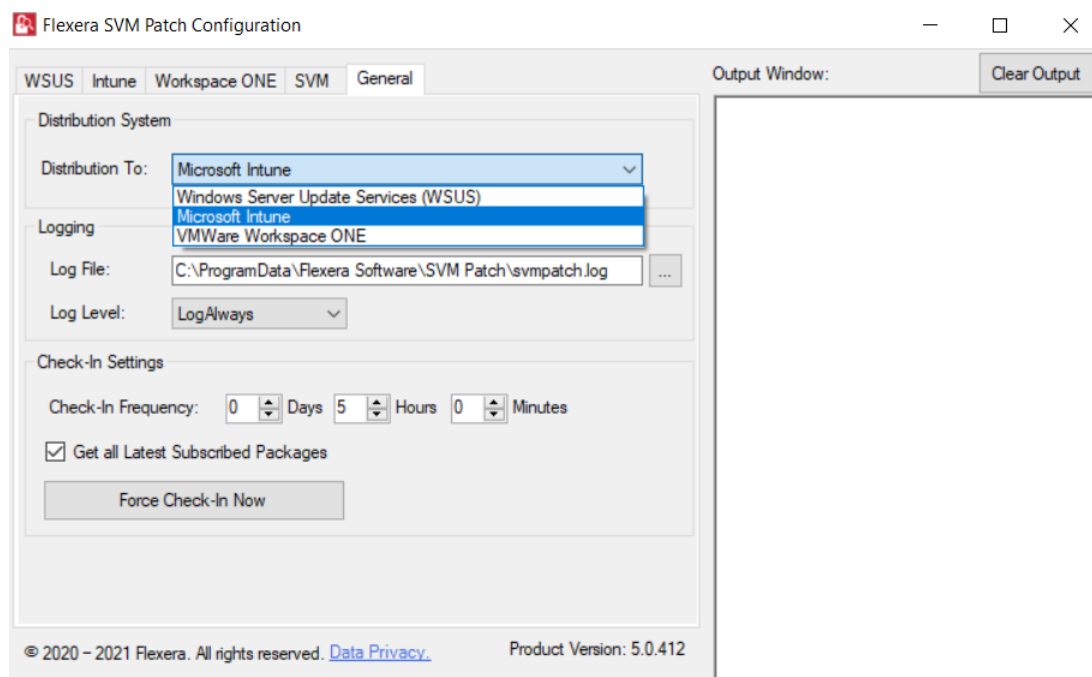
12. In SVM Connection tab, you will be prompted to enter your Software Vulnerability Manager Cloud credentials.

13. Click **Test SVM Connection** button, on successful connection you will receive a Token in the Output Window.

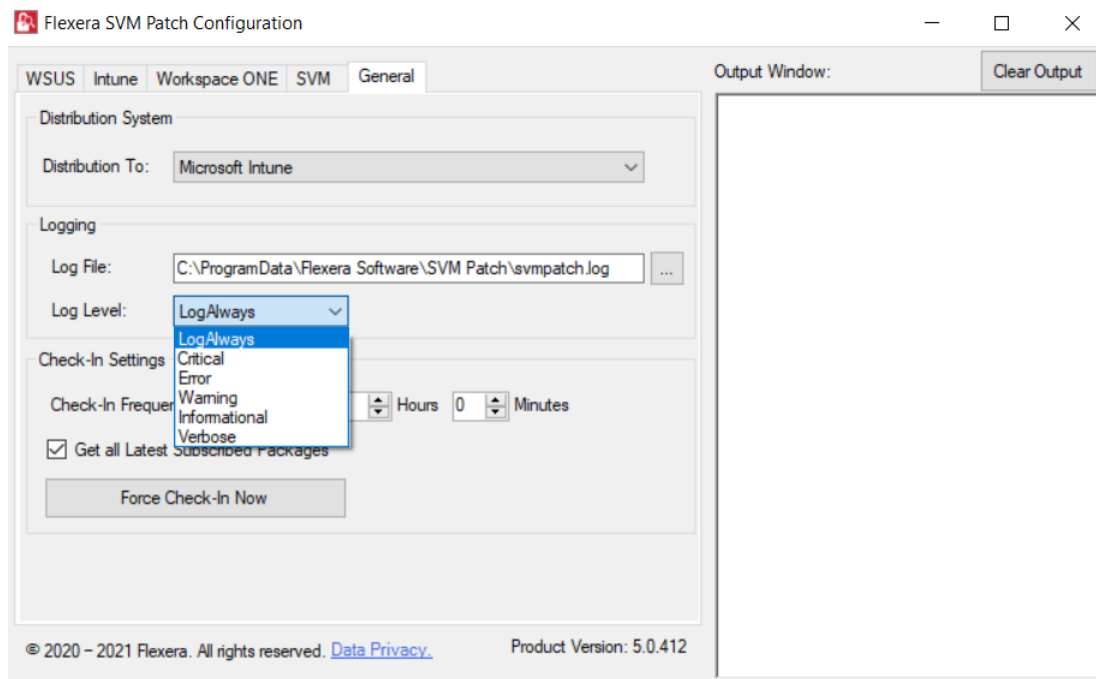


14. In the General tab, you can set any one of the below distribution system.

- Windows Server Update Services (WSUS)
- Microsoft Intune
- VMWare Workspace ONE

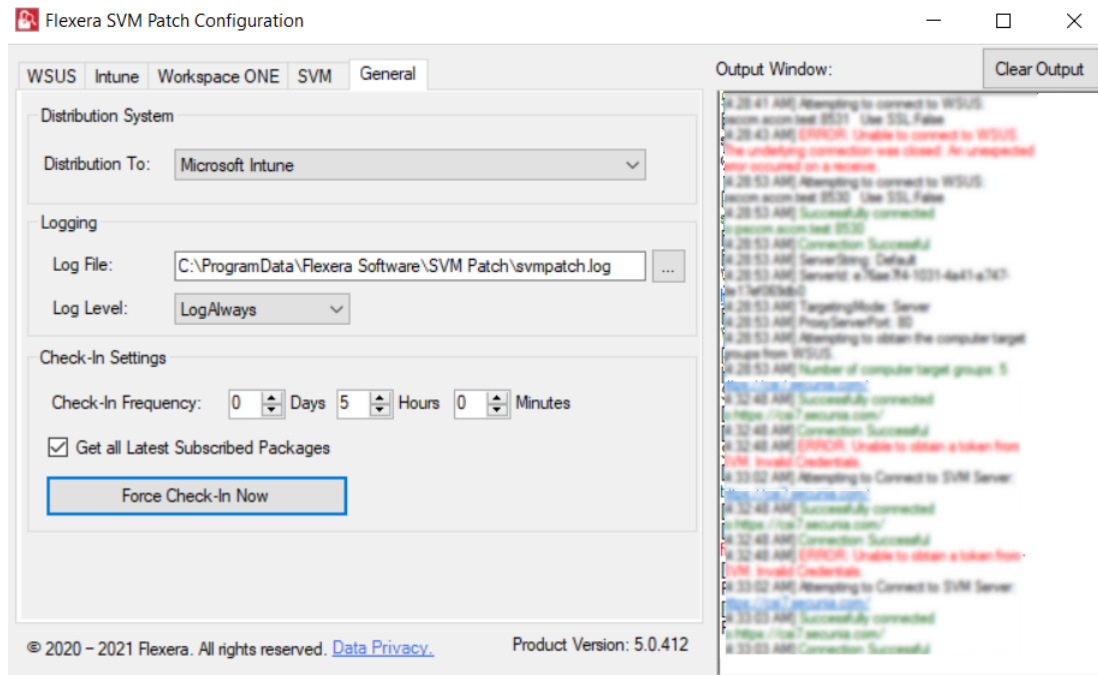


15. You can edit the folder path to save the action logs of this Tool. By default, the folder path will be **C:\ProgramData\Flexera Software\SVM Patch\svmpatch.log**.
16. You can set any one of the below preferences to save the log files:
  - LogAlways
  - Critical
  - Error
  - Warning
  - Informational
  - Verbose



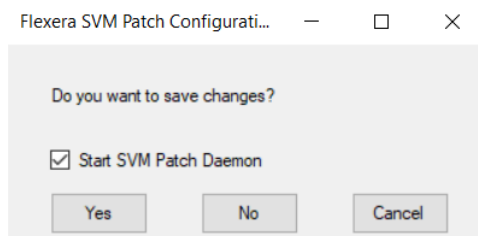
**Note** • The Log times will be in UTC format.

17. In **Check-In Settings**, you can set the frequencies to pull the relevant packages from the server.



**Note • Force Check-In Now** button can be used to pull relevant packages immediately.

18. Click check box button if you want to get all latest subscribed packages.
19. To run the services, click close button. You will be prompted to enable **Start SVM Patch Daemon** in the closing window. Click **Yes** to restart the Patch Daemon for the change to take effect.



**Note •** If any changes added in the Workspace ONE tab or SVM tab, then make sure that Test Connection to be done and then Restart the Patch Daemon for the changes to take effect.

## Flexera WSUS Management Tool

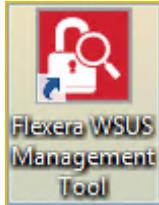
Flexera WSUS Management Tool allows you to manage the packages and configuration settings of WSUS.

On successful installation of Software Vulnerability Manager Patch Configuration Tool, along with the Software Vulnerability Manager Patch Configuration Tool shortcut, one shortcut for **Flexera WSUS Management Tool** will get created in your desktop.



It consist of two tabs:

- [Patching Information](#)
- [Configuration](#)



## Patching Information

Patching Information tab prompts you to connect to the WSUS server to view the packages, based on the selected filter option, either 3rd party, Microsoft updates, or both. It also allows you to approve, delete, decline the selected patches and select a computer groups where you want to deploy these approved patches, at the set deadline.

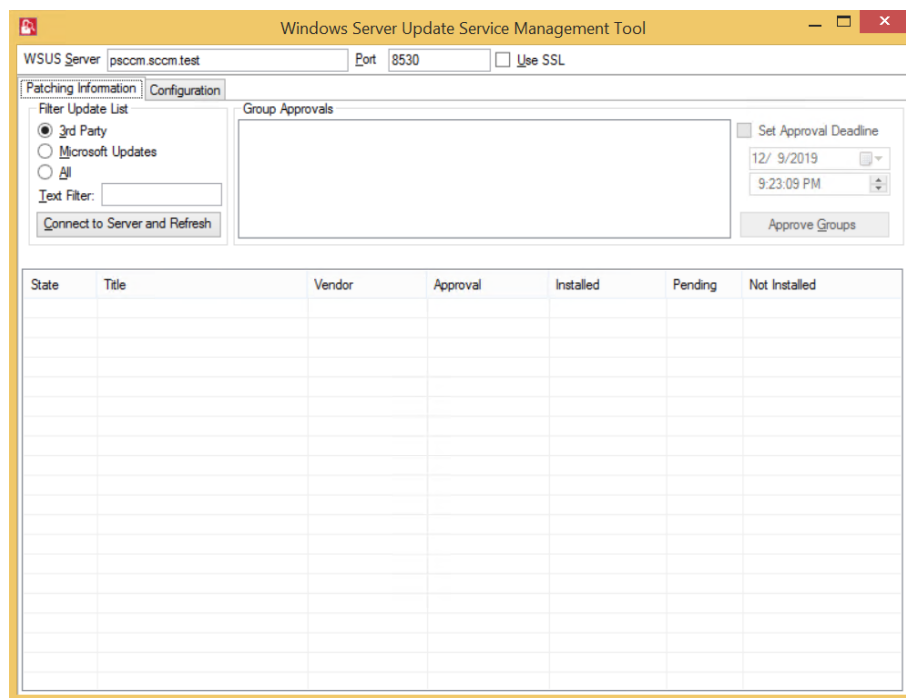
It consist of three sections:

- Filter Update List
- Group Approvals
- Set Approval Deadline

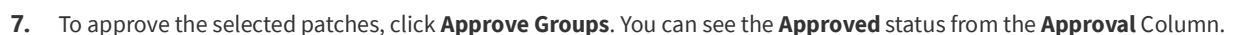
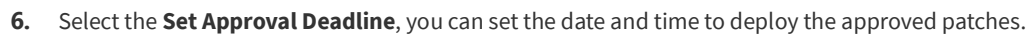
**Task**

**To use WSUS Management Tool follow the below steps:**

1. Double click on the shortcut **Flexera WSUS Management Tool** in your desktop, **Windows Server Update Service Management Tool** home page opens.



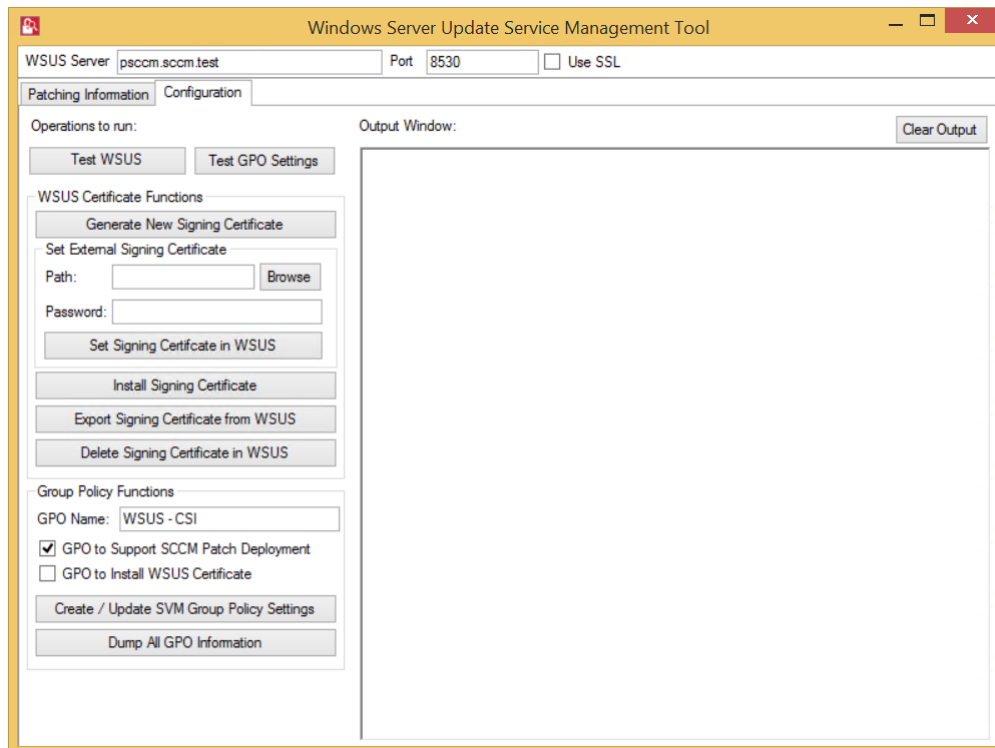
2. In the **Filter Update List**, you can either select 3rd Party Patches, Microsoft Updates, and All. You can enter the patch name or vendor name in the **Text Filter** box to fetch a quick patch list.
3. Click **Connect to Server and Refresh**, list of patches based on the selected **Filter Update List** appears.
4. Right click on a patch, you can perform a below function:
  - Decline Selected Updates
  - Delete Selected Items
  - Export SDP file
  - Properties
5. In **Group Approval** section, you can select a desired computer groups from the WSUS server.



## Configuration

In Configuration tab, you can perform the below WSUS configuration actions:

- Test WSUS
- Test GPO Settings
- Generate New Signing Certificate
- Install Signing Certificate
- Export Signing Certificate from WSUS
- Delete Signing Certificate in WSUS
- Create / Update SVM Group Policy Settings
- Dump All GPO Informations



## Flexera SVM Client Data Tool

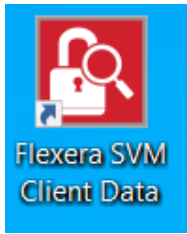
Flexera SVM Client Data Tool will allow you to pull and store your SVM data in a Microsoft SQL database to keep for as long as you wish.

On successful installation of Software Vulnerability Manager Client ToolKit, a new shortcut **SVM Client Data** tool will get created in your desktop.

To pull data, perform the following process:

- [Create Database Connection](#)

- [Add Account](#)
- [Sync Data](#)



Alongside the SVM Client Data Tool, PowerBI templates have been included. With these Power BI templates, you can generate trend reports for the existing data. For more information on generating reports, see [Generating Data Trend Reports](#).

## Create Database Connection

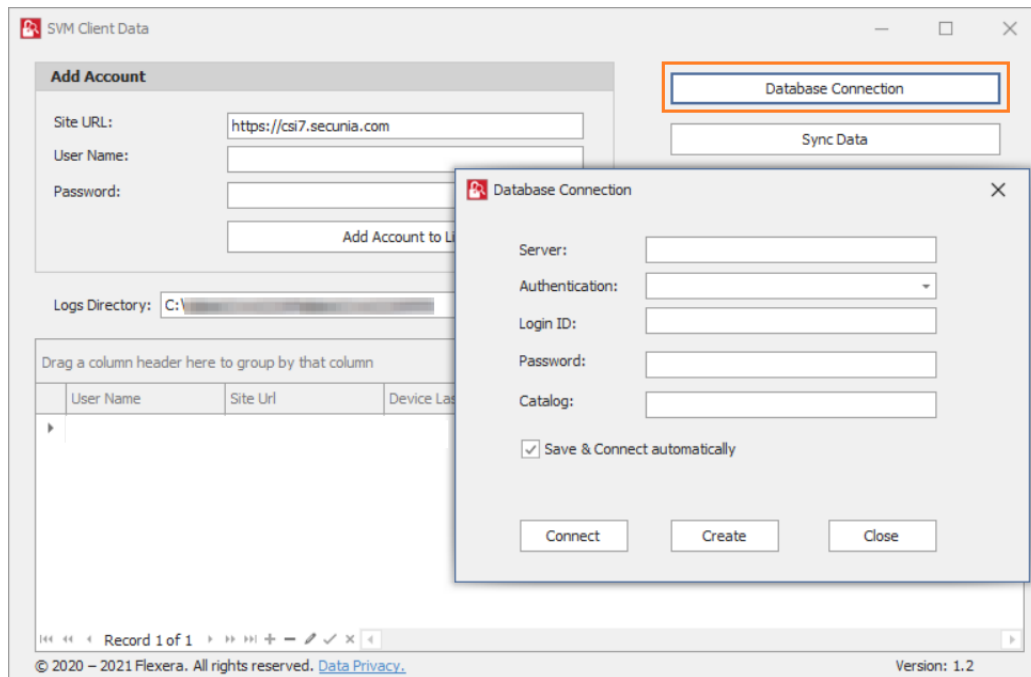
To create a Database connection in Client Data Tool, perform the following steps.



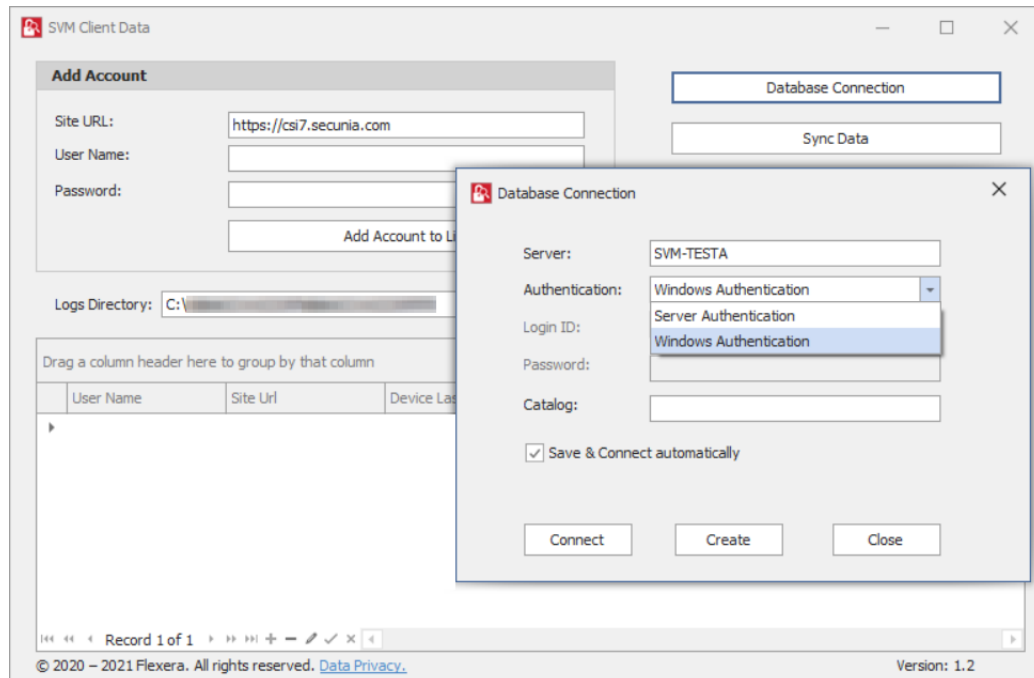
### Task

#### To create a Database connection:

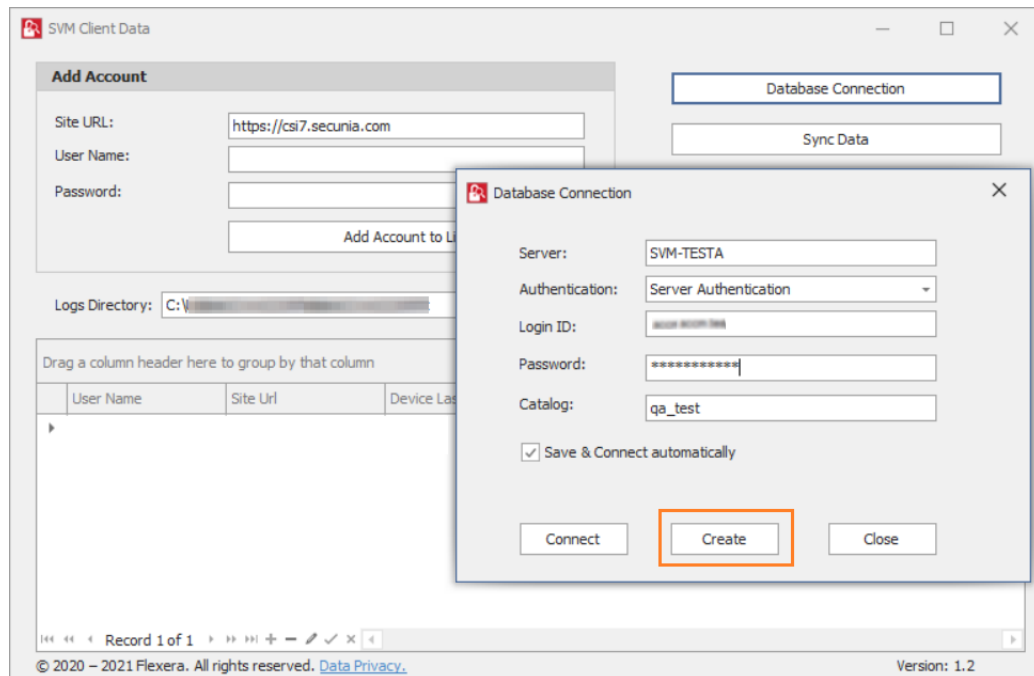
1. Double click on the shortcut created on your desktop, **Flexera SVM Client Data** windows pane appears.
2. Click **Database Connection** button. The Database Connection window appears.



3. In **Server** field, enter SQL Server name.
4. In **Authentication** field, you can select authentication type as either **Server Authentication** or **Windows Authentication**.



5. If you select **Server Authentication**, then enter Login ID and Password.
6. In **Catalog** field, enter the catalog name.
7. After entering the details, click **Create** button.



8. Upon successful action, Database created in the Microsoft SQL Server.
9. Once Database created, you can **Connect** to the Database.

## Add Account

To add account in Client Data Tool, perform the following steps.



**Note** • Make sure that the Database is connected. For more information, see [Create Database Connection](#).



### Task

#### To add account:

1. In Add Account, by default **Site URL** will be displayed
2. Enter the User Name and Password, and click **Add Account to List** button.

Added account will then be listed in the below section.

The screenshot shows the 'SVM Client Data' application window. The 'Add Account' dialog is open, with fields for 'Site URL', 'User Name', and 'Password'. The 'Add Account to List' button is highlighted with a red box. To the right of the dialog are buttons for 'Database Connection', 'Sync Data', 'Cancel', and 'Logs'. Below the dialog is a 'Logs Directory' field with a 'Save' button. At the bottom, there is a table with columns: 'User Name', 'Site Url', 'Device LastRun', 'Device History LastRun', 'Software History Las...', and 'Status'. The first row of the table is highlighted with a red box. The footer of the application shows '© 2020 – 2021 Flexera. All rights reserved. Data Privacy.' and 'Version: 1.2'.

User Name	Site Url	Device LastRun	Device History LastRun	Software History Las...	Status
	https://	10/25/2021 5:53 AM	10/25/2021 5:53 AM	10/25/2021 5:53 AM	

## Configure Logs Directory

To configure logs directory, perform the following steps.



### Task

#### To configure Logs directory:

1. In **Logs Directory** field, enter desired path in the text box or click \*\*\* icon and select the path that you want to save the log files generated.
2. Click **Save** button to take effect.

**SVM Client Data**

**Add Account**

Site URL:

User Name:

Password:

Logs Directory:

Drag a column header here to group by that column

	User Name	Site Url	Device LastRun	Device History LastRun	Software History Las...	Status
▶		https://	10/28/2021 4:02 AM	10/28/2021 4:02 AM	10/28/2021 4:03 AM	

Record 1 of 1

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Version: 1.2

## Sync Data

To pull data to Microsoft SQL server, perform the following steps.



**Note** • Make sure that the Database is connected and SVM account is added. For more information, see [Create Database Connection](#) and [Add Account](#).



### Task

#### To pull data to Microsoft SQL server:

1. In Client Data Tool, click **Database Connection** and connect to the database server. for more information, see [Create Database Connection](#).
2. If required, you can add multiple SVM accounts. For more details on adding the account, see [Add Account](#).
3. If required, you can configure the log directory where the log files are getting generated. For more details, see [Configure Logs Directory](#).
4. Click the **Sync Data** button. It starts pulling data to the Database.
5. Upon successful action, sync details will display in the below section.



**SVM Client Data**

**Add Account**

Site URL:

User Name:

Password:

Logs Directory:

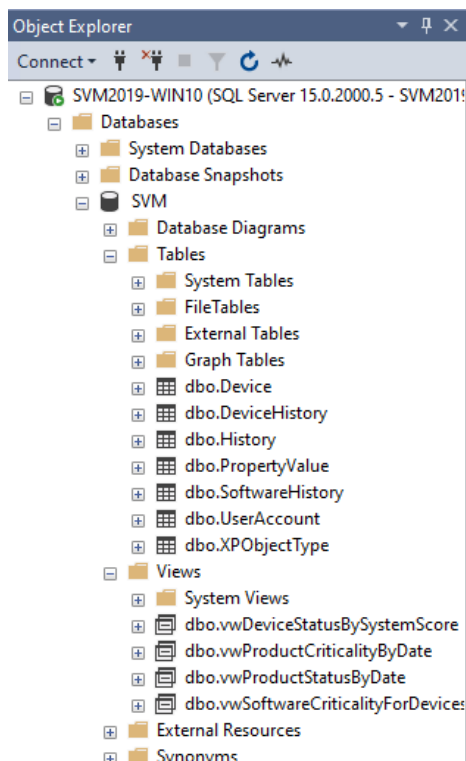
Drag a column header here to group by that column

User Name	Site Url	Device LastRun	Device History LastRun	Software History Las...	Status
...	https://...	6/22/2021 5:24 AM	6/22/2021 5:24 AM	6/22/2021 5:24 AM	Success
...	https://...	6/22/2021 5:24 AM	6/22/2021 5:24 AM	6/22/2021 5:24 AM	Success

Record 1 of 1

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6. Sync data will be available in tables and views.



7. You can manually sync data or you can schedule automation for the data sync. To schedule automation, see [Schedule Automation for Sync data.](#)

## Schedule Automation for Sync data

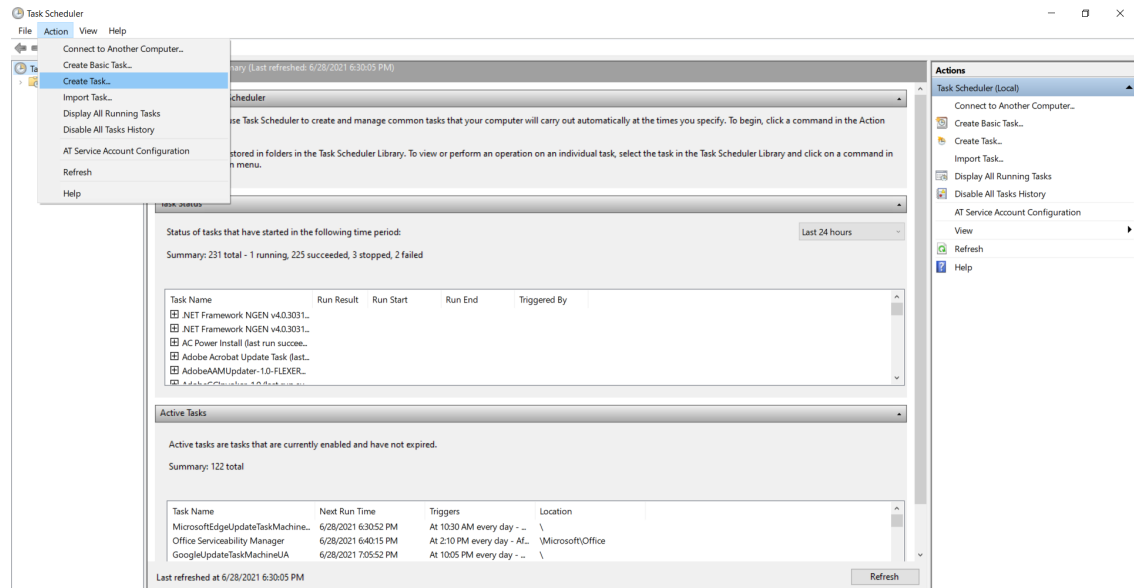
To schedule automation for sync data, perform the following steps.



### Task

#### To schedule automation for Sync data:

1. Type Task Scheduler in the Windows **Start** menu and click on **Task Scheduler** to launch task scheduler.
2. On the **Actions** tab menu, select **Create Task** option. The **Crete Task** dialog box appears.



3. It consists of five tabs:

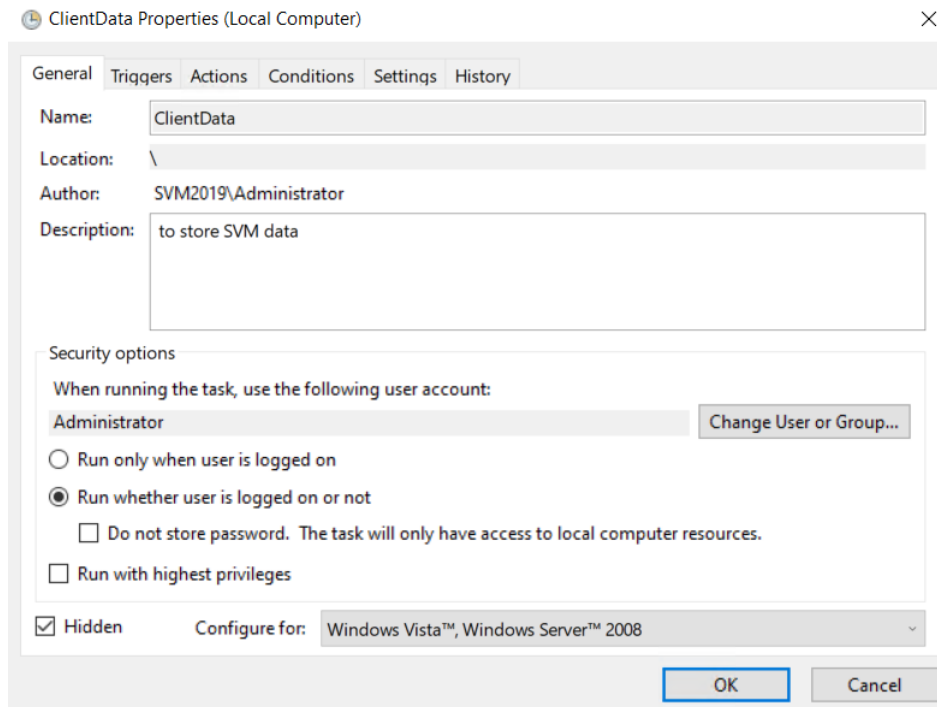
- General
- Triggers
- Actions
- Conditions
- Settings

The screenshot shows the 'Create Task' dialog box with the following details:

- General Tab:**
  - Name:** (Empty text field)
  - Location:** \
  - Author:** FLEXERA\
  - Description:** (Empty text area)
- Security options:**
  - When running the task, use the following user account:** FLEXERA\ (with a 'Change User or Group...' button)
  - ☒ **Run only when user is logged on**
  - ☐ **Run whether user is logged on or not**
    - ☐ Do not store password. The task will only have access to local computer resources.
  - ☐ **Run with highest privileges**
- ☐ **Hidden**
- Configure for:** Windows Vista™, Windows Server™ 2008 (dropdown menu)
- Buttons:** OK, Cancel

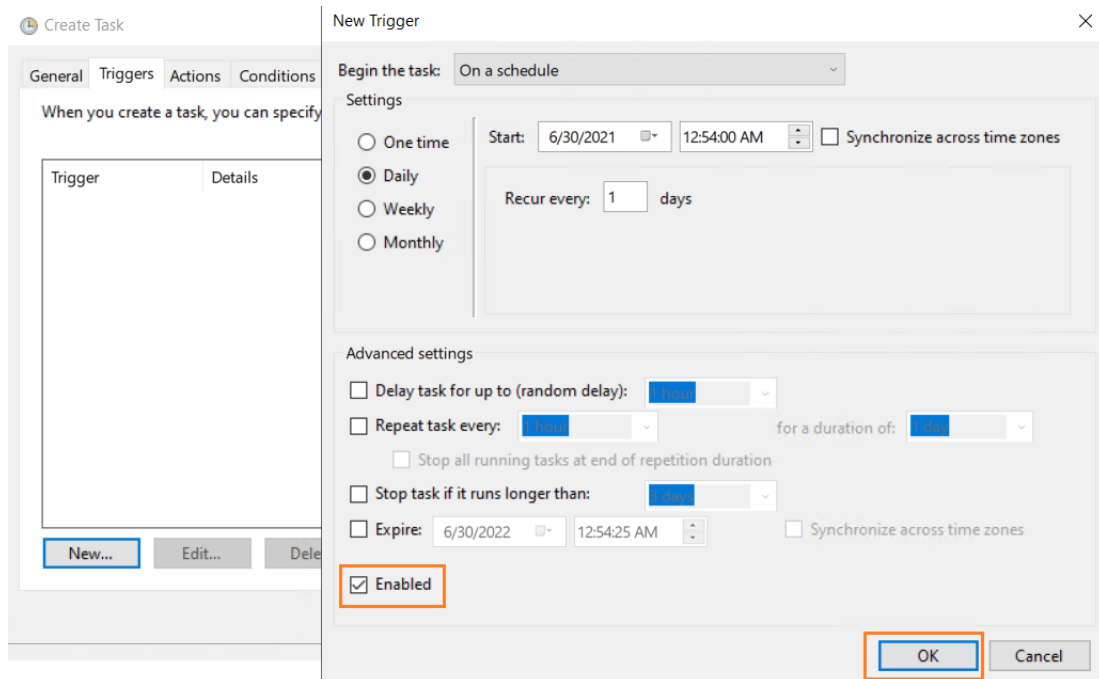
4. In **General** tab.

- In Name field, enter the task name.
- In Description field, enter description for the task.
- In **Security options** section, you can configure which administrator account can run the task.
- Select the **Run whether user is logged on or not** option.
- Select the **Run with highest privileges** option, If the task requires the highest privileges.
- Select the **Hidden** option, If you want to hide the task.
- The **Configure for** settings are changed only when you are required to use a different compatibility option.
- Click **Ok** button.



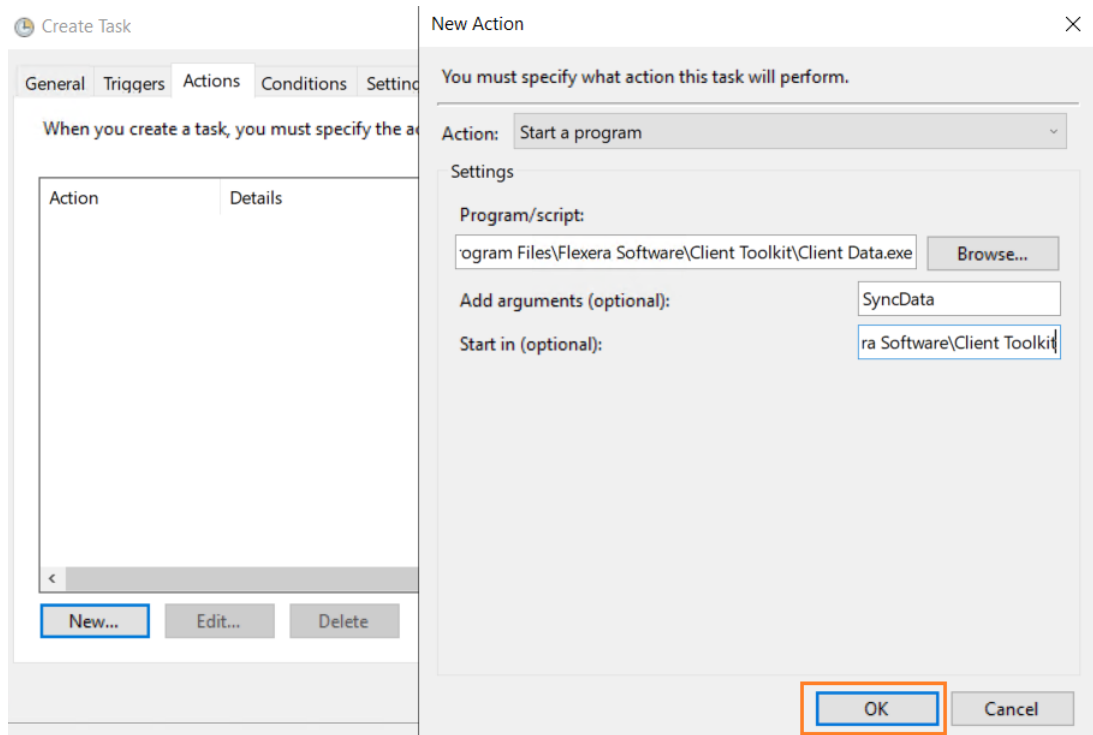
5. In Triggers tab.

- Click the **New** button. The **New Trigger** dialog box appears.
- Click the **Begin the task** drop-down and select one of the triggers from the list.
- Select Daily, Start date and time, and then enable the settings. Click **Ok** to schedule the task.



6. In the **Action** tab.

- Click the **New** button. The New Action dialog box appears.
- Click the **Action** drop-down and select one of the actions from the list.
- Under the **Settings** section, in the **Program/script** field, specify the path for the application (SVMClientData.exe).
- In the **Add arguments (optional)** field, you can specify Sync Data.
- In the **Start in (option)** field, specify the installation folder of the SVMClientData.exe
- After selecting the above fields, click the **Ok** button.



7. After completing the steps, authenticate with your account credentials, and then the task will run automatically on schedule or event using the specified settings.

## Generating Data Trend Reports

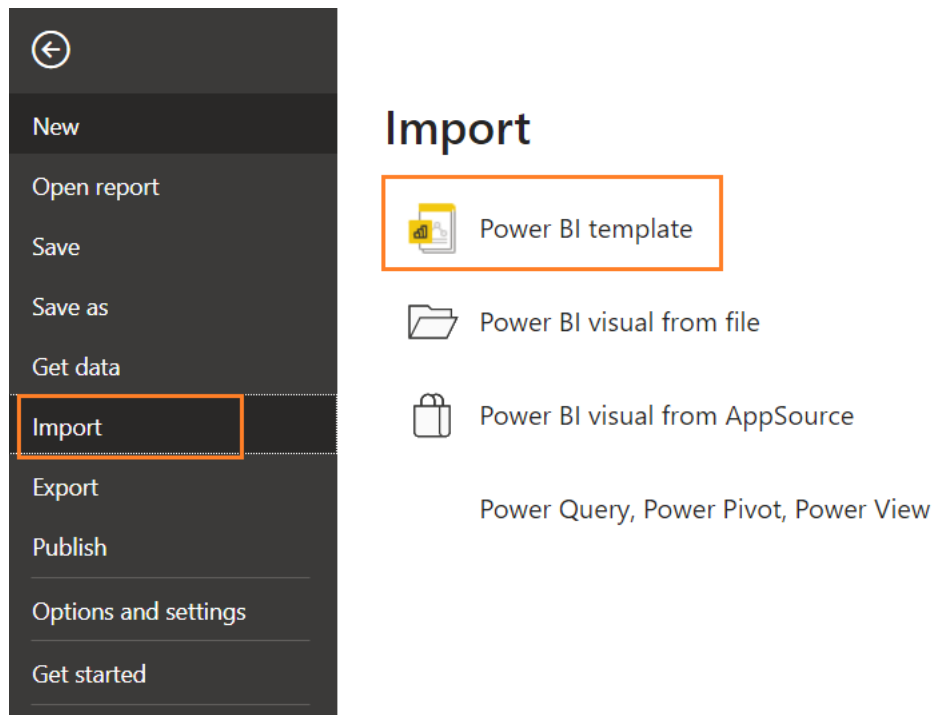
With the Power BI templates you can generate a trend reports for the existing data. To generate a data trend reports, perform the following steps.



### Task

#### To generate Data Trend Reports:

1. Download Power BI Desktop (<https://powerbi.microsoft.com/en-us/downloads/>).
2. Open the Power BI Desktop.
3. Click on the **File** menu, select **Import**, and select **Power BI Template**.



4. Select the desired template from the Client Data Tool\Report Templates\Power BI folder.

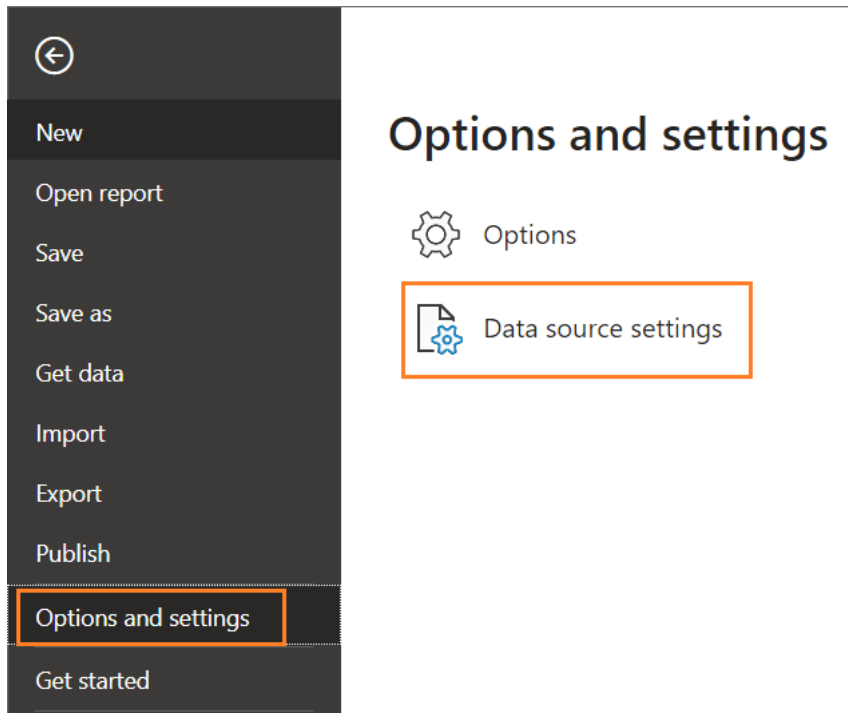


**Note** • Alongside the SVM Client Data Tool, Power BI templates have been included.

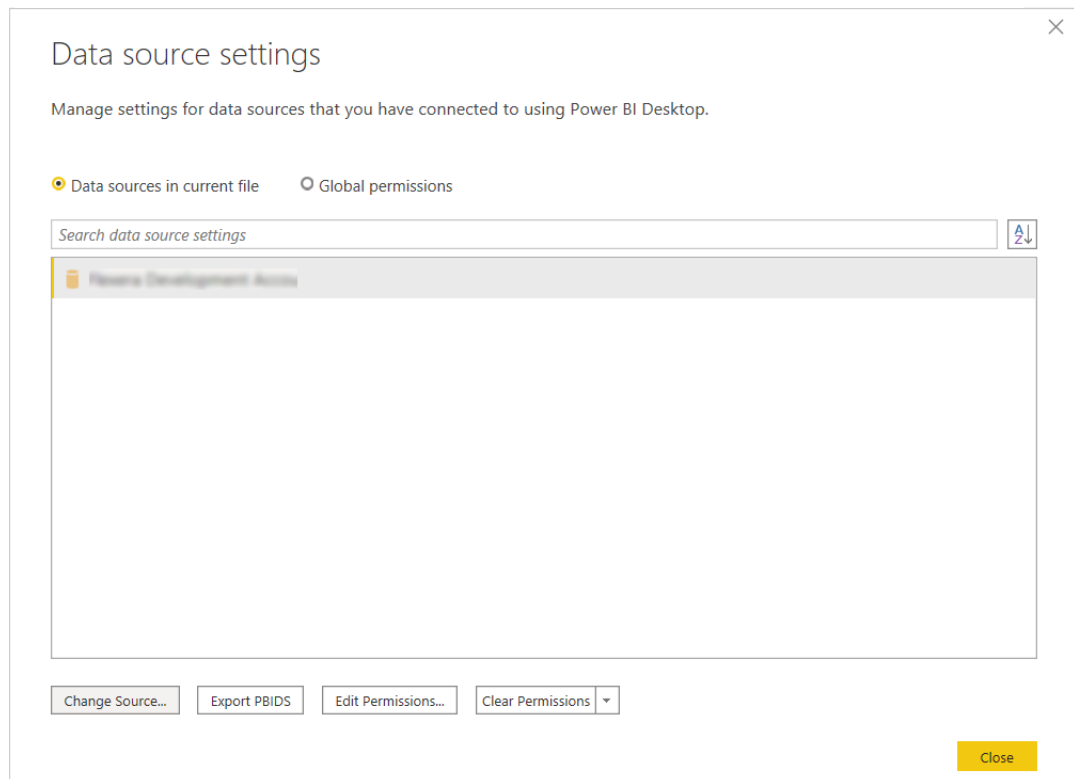
5. Once the template is selected, change the database source as mentioned in the below steps:

- Click on the **File** menu, select **Options and settings**, and select **Data source settings**.

The **Data source settings** dialog box appears.



- In the **Data source settings**, select **Data sources in current file** by clicking on the radio button, and click the **Change Sources** button. The SQL Server database dialog box appears.



- In the **SQL Server database**, enter the server (port) details and the database details. Click **Ok** button.

SQL Server database

Server

SV...tA

Database

p...ex

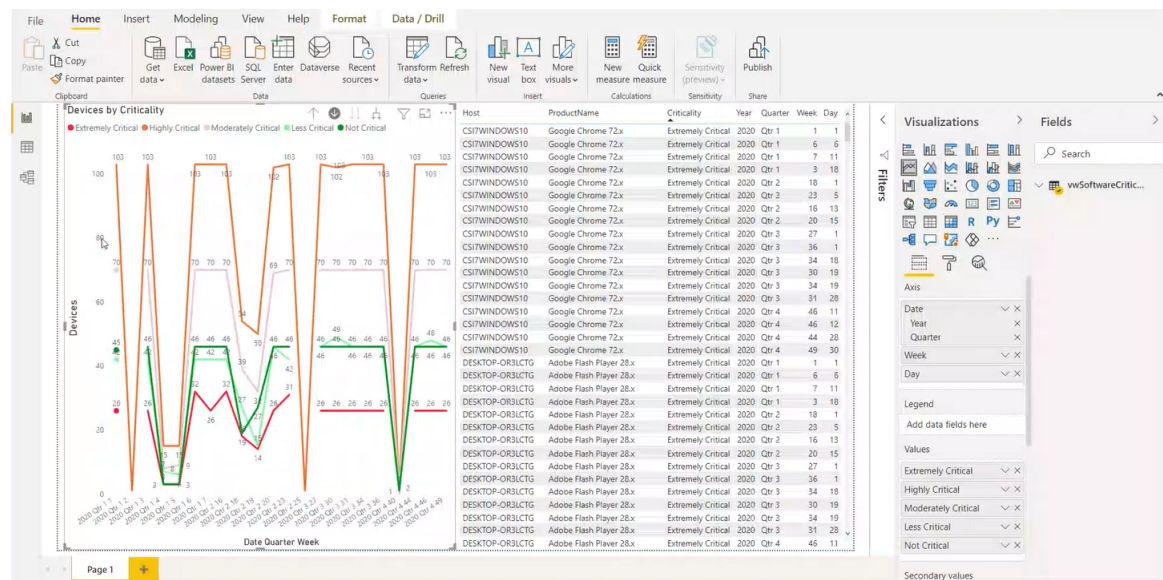
> Advanced options

OK

Cancel

- Upon successful action, the database source is updated.

6. You can see the report for the selected Template.



7. You can generate reports:

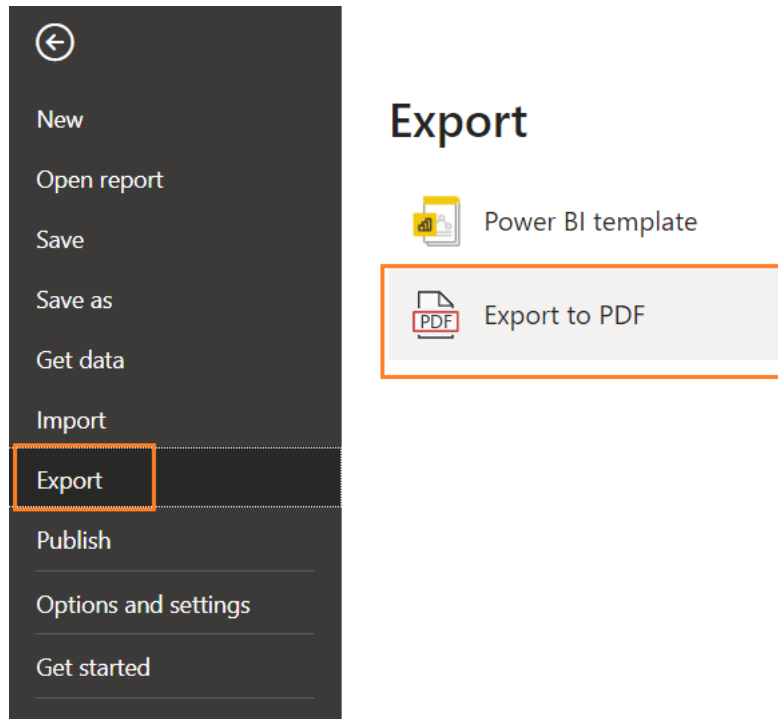
- Criticality status by device
- Criticality status by product
- Device status by system score and date
- Secure status by product

8. On the **File** menu, click **Save** to save your changes.

9. On the **File** menu, click **Save As**. The Save As dialog box opens. The **Save As** dialog box lets you specify the name and location where you want to save the template.

10. To export the report, select Export > Export to PDF from the File menu.





## Join Flexera's Customer Community

Join Flexera's Customer Community - the place to go for case management, knowledge base articles, and product forums. A community of customers is waiting to meet you! To get started:

- Register (<https://rebrand.ly/welcome-to-flexera>) for a Welcome to Flexera session. These sessions are hosted by our Customer Success team. You'll get a high level overview of Flexera and its product and support resources.
- Visit our Customer Community (<https://community.flexera.com/t5/Software-Vulnerability-Manager/ct-p/Software-Vulnerability-Manager>). We extend case management privileges to two individuals per organization. If you need to update your technical contacts in Flexera's Customer Community, the following video explains how to do that: [https://www.youtube.com/watch?v=bSD28T432QA&list=PLCuhlHqMRwWqqBAOs0\\_DKa30XElim5ORR&index=6](https://www.youtube.com/watch?v=bSD28T432QA&list=PLCuhlHqMRwWqqBAOs0_DKa30XElim5ORR&index=6)
- Anticipate an email from our Community containing your user credentials. Your organization's administrative contact (many times an individual in procurement or finance) has the ability to assign case management privileges.
- Request (<https://community.flexerasoftware.com/register.php>) access to our product forums! It's a great way to exchange best practices and tips and tricks with other customers like you!



# The Dashboard

The first time you login to the Software Vulnerability Manager console the Dashboard page will only display the Overview portlet. Select the Dashboard elements you want to view from the drop-down list on the upper left of the page. You can then either save the profile or, if you have created several profiles, set it as the default profile. You can also delete, add a new profile or reload the current profile view.



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**Tip** • Click  in any portlet for more detailed information on the data displayed.



---

**Note** • You can only load one unique portlet at a time.



---

**Tip** • You can toggle between Full screen and Standard views and click Export to download a PNG image of the current Dashboard Profile.

# Agent Details

Software Vulnerability Manager Cloud Edition requires an Agent to be installed on your server to scan your environment for vulnerabilities. Installing the Software Vulnerability Manager Agent file `csia.exe` requires administrative privileges. When scanning your environment, the Agent collects data from each device that is scanned.

The following sections provide further details:

- [Agent Administrative Privileges](#)
- [Agent Data Collection](#)
- [Agent Thread Priority](#)
- [Agent Caching of Scan Rules](#)

## Agent Administrative Privileges

The Software Vulnerability Manager Agent requires administrative or root privileges for the following functionality:

- Install or uninstall the service
- Update configuration data stored in per-machine locations (Examples: MachineGUID (written once); last scan time (updated each scan))
- Scan the entire hard drive for vulnerable software (non-administrative users cannot read other users' local files)

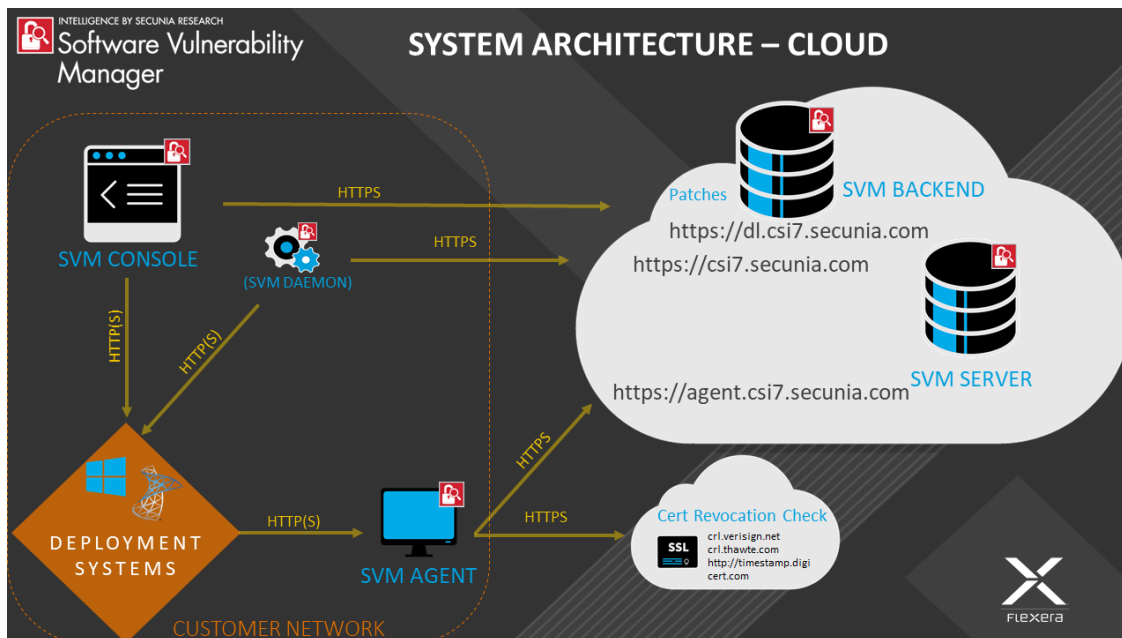


---

**Note** • *At this time, it is not feasible to skip parts of this functionality when installing the Agent without administrative or root privileges.*

The Software Vulnerability Manager Agent requires network connectivity (HTTP/HTTPS) to <https://csi7.secunia.com>.

See the diagram below for an overview of the Software Vulnerability Manager Cloud System Architecture.



## Agent Data Collection

After scanning your environment, the Software Vulnerability Manager Agent collects the following data, which is summarized into a single POST to <https://csi7.secunia.com>. The Agent collects data from Windows, Red Hat Enterprise Linux (RHEL) and Mac OS X operating systems. The data collected varies by operating system as described below.

### All operating systems

- Machine name
- MachineGUID (generated by Flexera)
- System type (architecture / operating system)
- IP address
- MAC address
- Time (GMT, local)

### Windows

- Distinguished name
- List of security Knowledge Base articles installed or pending, source thereof
- List of vulnerable and unrecognized applications from the File System scan:
  - Sends only:
    - File path
    - File size

- Metadata from the Portable Executable (PE) header to recognize known software (Examples: timestamp, machine architecture)
- Metadata from the Version Block to recognize known software (Examples: product name, product version, company name, original file name, internal name, file version, comments, file description, legal copyright, legal trademarks, private build, special build)
- Files collected are filtered by scan rules or type
- Locations of well-known system folders (Example: C:\Program Files)
- List of drives discovered or scanned
- Processing time and other profiling measures

### Red Hat Enterprise Linux (RHEL)

- List of installed Red Hat Package Managers (RPMs) from rpm
- List of packages with security updates using the Yellowdog Updater Modified (YUM) tool

### Mac OS X

- List of applications from the File System scan of .plist sends only:
  - File path
  - Metadata from the plist used to recognize known software (Examples: author; description; CFBundle: display name, identifier, short version string, version, executable, get info string, name, package type; NSHumanReadableCopyright)
- List of operating system updates queried from the system

## Agent Thread Priority

Agent sets the lowest thread priority (THREAD\_PRIORITY\_IDLE) by default, and begins background processing mode so that it can perform background work without significantly affecting activity in the foreground. The thread priority can be changed via command line (--scan-thread-priority) or registry (ScanThreadPriority) as explained below:

### All Agents-specifics

SVM Agents will begin background processing mode so that it can perform background work without significantly affecting activity in the foreground. By default, SVM Agents for Windows, Linux, MAC OS X will be installed with lowest thread priority:

THREAD\_PRIORITY\_IDLE

### Windows/Linux-specifics

The thread priority can be changed via the command line using the following optional command-line parameter supported by the Agent for Windows/Linux:

--scan-thread-priority

## Windows-specifics

On Windows hosts (SVM Agent for Windows), the configuration of thread priority is more flexible.

You can also configure the default thread priority of your Agents through the Windows registry entry `ScanThreadPriority` by specifying one of the following available values:

- 0: `THREAD_PRIORITY_NORMAL`
- 1: `THREAD_PRIORITY_BELOW_NORMAL`
- 2: `THREAD_PRIORITY_LOWEST`
- 3: `THREAD_PRIORITY_IDLE`

`ScanThreadPriority` is setup as a `DWORD` registry value in the Windows Registry.

The agent reads the setting from `HKLM\SOFTWARE\Wow6432Node\Secunia\CSI Agent` when running under the Local System account, and from `HKCU\SOFTWARE\Secunia\CSI Agent` when running under a different domain service user account.

See [SetThreadPriority](#) Windows API for more details about the parameters of thread priority.

The Software Vulnerability Agent doesn't use the background processing mode when `THREAD_PRIORITY_NORMAL` is specified.

## MAC OSX-specifics

The scan thread priority for MAC OSX-based SVM Agents cannot be changed due to known performance problems when different than the lowest thread is being used by the SVM Agent on OSX hosts.

# Agent Caching of Scan Rules

New scan agents available with this release, will now cache scan rules. Agents servers will determine if the agent needs a new set of rules and will only push these rules if needed. This will result in decrease in the amount of network traffic generated by the scan agents which will be especially beneficial in very large environments. To take benefit of this enhancement, the current version of the scan agent in your environment should be upgarded to the new version of the agent - 7.6.0.15



# 6

## Scanning

Software Vulnerability Manager allows scanning of target hosts using the following approaches:

- Single Host Agent-based scans are conducted by the Software Vulnerability Manager Agent that can be installed in different modes: Single Host mode, Network Appliance mode, or Command Line mode.
- Alternatively, you can scan the target hosts by launching a scan from the system where the Software Vulnerability Manager console is running. By using this approach, no software is installed in the target hosts. The scanning is performed using standard operating system services. This scan is also referred to as a “remote scan”.

The various types of scan are listed and shown below:

- [Agent-based Scan – Requirements for Windows](#)
- [Agent-based Scan – Requirements for Mac OS X](#)
- [Agent-based Scan – Requirements for Red Hat Enterprise Linux \(RHEL\)](#)
- [Remote/Agent-less Scan – Requirements \(Windows\)](#)
- [Remote Scanning Via Software Vulnerability Manager \(Agent-less Scan\)](#)
- [Remote Scanning Via Agents](#)
- [Scanning Via Local Agents](#)
- [Run Scan from System Center Configuration Manager \(SCCM\)](#)
- [Scanning Mac OS X](#)
- [Scanning Red Hat Enterprise Linux \(RHEL\)](#)

Below is a visual overview of the Software Vulnerability Manager scanning options:



## Agent-based Scan – Requirements for Windows

If you choose to scan using the installable Agent (Agent-based scans), as described in [Single Host Agents](#), the following requirements should be present in the target hosts:

- Administrative privileges (to install the Software Vulnerability Manager Agent – csia.exe)
- Microsoft Windows Server 2008 R2, 2012, 2012 R2, 2016, 2019
- Microsoft Windows Operating System 7 Service Pack 1, 8.1, 10
- Internet Connection – SSL 443/TCP to [https://\\*.secunia.com/](https://*.secunia.com/)
- Windows Update Agent 2.0 or later

## Agent-based Scan – Requirements for Mac OS X

The following requirements should be met before installing the Single Host Agent on an Intel-based Mac OS X machine:

- Supported Systems:
  - 10.8 Mountain Lion
  - 10.9 Mavericks
  - 10.10 Yosemite
  - 10.11 El Capitan
  - 10.12 Sierra
  - 10.13 High Sierra
  - 10.14 Mojave
  - 10.15 Catalina
  - 11 Big Sur
- Administrator privileges at minimum ('root' privileges required for the installation)
- Internet Connection – SSL 443/TCP to [https://\\*.secunia.com/](https://*.secunia.com/)
- The user installing the Agent must have 'execute' permissions on the file (chmod +x)



**Note** • To install and scan Mac Agent in Mac OS Big Sur with ARM Architecture, you need to install **Rosetta** software.  
`softwareupdate --install-rosetta`

## Agent-based Scan – Requirements for Red Hat Enterprise Linux (RHEL)



**Note** • The csia agent for RHEL is architecture independent (that is, it works for 32- and 64-bit).

To install the Single Host Agent on a Red Hat Enterprise Linux (RHEL) machine, the user:

- Must be a member of the sudoer group.
- Must have write access to the /etc/csia folder to save configuration data.
- Must have a RHEL machine that supports the following operating systems:
  - RHEL 6: requires bash, gzip, sed, gawk, procs, coreutils, glibc(x86-32), libcurl(x86-32), libconfig(x86-32), libuuid(x86-32), yum, yum-security
  - RHEL 7: requires: bash, sed, gawk, procs, coreutils, glibc(x86-32), libcurl(x86-32), libconfig(x86-32), libuuid(x86-32), yum

For further RHEL agent installation information, see [Installing the Software Vulnerability Manager Agent for Red Hat Linux](#).



**Note** • It may be possible to install the scan Agent on RHEL operating systems and configurations other than those described above. However, these have not been tested and are not supported by Flexera.

## Remote/Agent-less Scan – Requirements (Windows)

If you prefer to scan without installing the Software Vulnerability Manager Agent (Agent-less scans), the following requirements should be present in the target hosts:

- Ports 139/TCP and 445/TCP open inbound (on hosts)
- File sharing enabled on hosts
- Easy/simple file sharing disabled
- Windows Update Agent 2.0 or later

Required Windows services started on hosts:

- Workstation service
- Server service
- Remote Registry service (by default is disabled on Win7/Vista)
- COM+ services (COM+ System Application: Set to Automatic)

In order for a remote/Agent-less scan to succeed, the user executing the scan – whether that's the user running the Software Vulnerability Manager console or the user for the service running the network appliance – must have local administrative privileges on the scanned hosts.

When performing Remote/Agent-less scans, the result may be displayed as Partial in the Completed Scans page. This is caused by the Windows Firewall default settings that block the RPC dynamic ports.

On the host, in Windows Firewall, the user should create an inbound rule to allow inbound traffic for all products that use RPC dynamic ports.



### Task

#### To create the rule:

1. From Windows Control Panel (View by Category) > System and Security > Windows Firewall, select Advanced settings
2. Select Inbound Rules in the Windows Firewall with Advanced Security on Local Computer pane and then select New Rule in the Actions pane
3. The New Inbound Rule wizard opens
4. Select Custom rule and click Next
5. Select All programs and click Next
6. In the Protocol and Ports window:
7. From the Protocol type: drop-down list, select TCP

8. From the Local port: drop-down list, select RPC Dynamic Ports
9. Click Next until the Profile window appears
10. Clear Private and Public, select Domain and click Next
11. Give the rule a name, for example: Software Vulnerability Manager
12. Click Finish

Once you have created the rule, use the Software Vulnerability Manager console to perform a remote scan of the PC. The host will connect to Windows Update and the scan status should be displayed as Success in the Completed Scans page.

## Remote Scanning Via Software Vulnerability Manager (Agent-less Scan)

These scans are performed in an Agent-less manner and the credentials used by Software Vulnerability Manager to authenticate on the target hosts will be the same as those of the user that launched the Software Vulnerability Manager console.

This section describes the features for this Agent-Less Scan:

- [Quick Scan](#)
- [Scan Groups](#)
- [Scan Progress](#)



---

**Important** • Please consider the system requirements for the Scan Groups/Agent-less scans, described in [Remote/Agent-less Scan – Requirements \(Windows\)](#).

### Quick Scan

Use this page to conduct quick, on-demand, scans from your Software Vulnerability Manager console against remote hosts on your network or your local PC. Enter the scan type and IP address range for the hosts you wish to scan in the Enter hosts to scan screen and click Scan Hosts.

For local host scanning, click **Include this computer in scan**.

**Enter hosts to scan**

**Scan Type**

☒ Type 2: All Paths (Recommended)  
☐ Type 1: Default Paths

**IP Range**

From:   
 To:

**IP Addresses or Computer names**

**Scan this computer (localhost)**

☒ Include this computer in scan

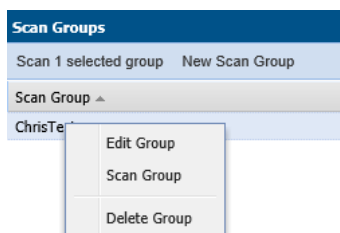
Scan 1 Host

To make sure that you are able to remote scan the target host, please ensure that all the system requirements for the remote scan are in place.

The progress can be seen under [Scan Progress](#).

## Scan Groups

This page displays a list of Scan Groups you have created. To start a scan, right-click the group name and select Scan Group.



If you are scanning remote hosts, your current login credentials, or the ones you supplied via “Run as...” will be used to authenticate against the remote hosts when conducting the scan.

Click New Scan Group to create and configure a group of hosts to be scanned.

**New Scan Group:**

Name & Scan Type   IP Ranges   IP Networks   Hosts & IPs

Name:

Scan Type:

☐ Type 3: Inspect all .dll, .exe, and .ocx files (Slow)  
☒ Type 2: All Paths (Recommended)  
☐ Type 1: Default Paths

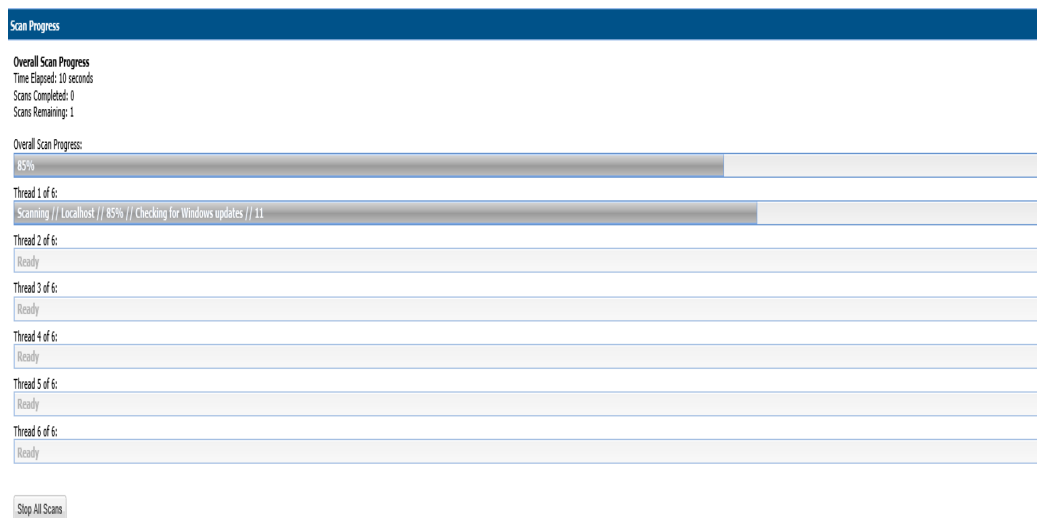
Microsoft Update: Check for missing Microsoft security updates has been globally enabled by the partition administrator.

Cancel   Save

After navigating through the different tabs: Name & Scan Type, IP Ranges, IP Networks and Hosts & IPs, click Save to create the scan group.

## Scan Progress

Use this page to track the scans being conducted. You can also configure the number of simultaneous scan threads (the default value is set to 5) as described in [Settings](#).



## System Center Inventory Import

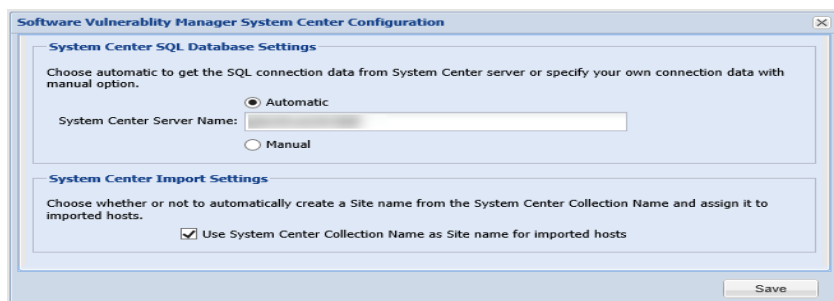
Scan results are obtained from the data collected by the System Center software inventory agent, which avoids the need to install the Software Vulnerability Manager Agent on each client.

To set up an import schedule, see [System Center Import Schedules \(Requires the Software Vulnerability Manager Daemon\)](#).

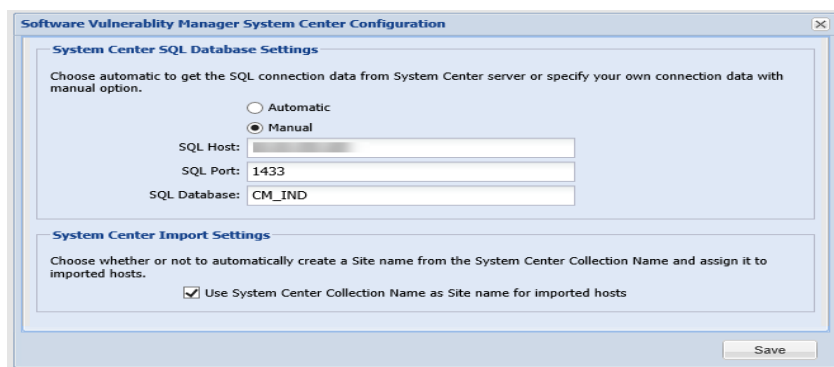
System Center integration requires the following prerequisites:

- Setting up authentication. The user running the Software Vulnerability Manager console must have access to the database containing the data of the System Center. For System Center Configuration Manager the database is named CM\_<site\_code> and for System Center Configuration Manager 2007 it is named SMS\_<site\_code>. To add permissions, open SQL Server Management Studio, right-click the appropriate database, navigate to permissions and add Connect and Select.
- Setting up the software inventory agent. Assuming that the System Center site has been set up, open the System Center console and ensure that the System Center client (agent) is installed on the hosts to be scanned. In System Center Configuration Manager, go to Devices and right-click Install client. Then go to Administration > Client Settings > Properties > Software Inventory. To configure the broadest possible pattern, select File Detail: full and add the patterns \*.dll, \*.exe, \*.ocx. Do not exclude the Windows directory. Less data will be generated by specifying a narrower pattern, however, the quality of the scan result will suffer.
- In addition, you might want to consider increasing the software inventory file size from the default of 5 MB to 12 MB. To accomplish this, change the following registry key on the System Center Server:  
HKLM\Software\Microsoft\SMS\Components\SMS\_SOFTWARE\_INVENTORY\_PROCESSOR\Max File Size

Click Configure System Center. In the Software Vulnerability Manager System Center Configuration page, enter the System Center Server Name. Select the Use System Center Collection Name as Site name for imported hosts check box to use the Collection name as a host's Site name during Collection import and click Save.



If you select Manual, enter the SQL Host, SQL Port and SQL Database connection data and click Save.



In the System Center Inventory Import page, click Import Selected Collections or Import All Collections.



**Important** • The scan result is based on the data collected by the software inventory agent, which may not be of the same quality as that of the Software Vulnerability Manager Agent (csia). This means that there could be discrepancies between a scan performed by the System Center integration and the csia. It may also result in some products not being detected correctly. For higher quality scan results Flexera recommends using the csia.

## System Center Import Schedules (Requires the Software Vulnerability Manager Daemon)

Click New System Center Import Schedule and enter:

The Schedule Name.

The Next Run date and time.

The Frequency (Hourly, Daily, Weekly or Monthly) that the import will be performed or select the One-Time Import check box.



Define the schedule for importing System Center scan data. After the schedule has been created you will be prompted to add the collection whose scan data you want imported.

Schedule Name:

Next Run:   :  You must choose a Date and Time in the future.

Frequency:  or ☐ One-Time Import

Click Add Collections and enter the Collections to include in the Import Schedule.

Right-click an Import Schedule in the grid to edit or delete the schedule.

## Remote Scanning Via Agents

You can use Network Appliance Agents for scanning one or more networks at scheduled intervals without having to install the Software Vulnerability Manager Agent in every single target host.

With the csia.exe installed in Network Appliance mode, you will have the ability to schedule remote scans.

The hosts to be scanned can be identified by an IP-range, IP-network or Host-name.

The Software Vulnerability Manager console allows you to easily manage the scans being performed by the Network Appliance Agent.



**Important** • Please consider the system requirements for the Scan Groups/Agent-based scans, described in [Agent-based Scan – Requirements for Windows](#) and [Agent-based Scan – Requirements for Mac OS X](#).

## Software Vulnerability Manager Agent Command Line Options

You can use the following command line options for the Software Vulnerability Manager Agent.

- [Help](#)
- [Version](#)
- [Install](#)
- [Uninstall](#)
- [Modify Settings](#)
- [Controlling the Service](#)
- [Scanning from the Command Line](#)
- [Randomizing the Agent Scan Schedule](#)
- [Agent Configuration Options](#)

## Help

Run the Software Vulnerability Manager Agent to get instructions and a list of command line options (ignores all other command line options, prints instructions and exits immediately). Also prints version as with

-V. Exclusive:

```
csia.exe -h
```

## Version

Print the version number of the Software Vulnerability Manager Agent on the command line (exclusive):

```
csia.exe -V
```

## Install

Install the Software Vulnerability Manager Agent from the command line, with configuration options. Installs as current user, prompts for password, settings saved to HKCU:

```
csia.exe -i <config options>
```

Install the Software Vulnerability Manager Agent from the command line to run as LocalSystem, with configuration options. Saves settings to HKLM:

```
csia.exe -i -L <config options>
```

Install the Software Vulnerability Manager Agent from the command line to run as <user>, with configuration options. Prompts for password and saves settings to HKEY\_<user>:

```
csia.exe -i -R <user> <config options>
```

Install the Software Vulnerability Manager Agent from the command line to run as <user>, with <password> with configuration options. Saves settings to HKEY\_<user>:

```
csia.exe -i -R <user>:<password> <config options>
```

Install the Software Vulnerability Manager Agent from the command line but not write anything to the registry (also works with -R and -L):

```
csia.exe -i -N
```

## Uninstall

Uninstall the Software Vulnerability Manager Agent service, remove all settings and delete the key from the registry where the service reads them from:

```
csia.exe -r
```



**Note** • The -L and -R options are irrelevant when uninstalling.

If the service is installed but cannot be removed, then the registry settings aren't removed.

If the service is not installed, does nothing.

If the registry settings cannot be removed, a warning is given and the service is removed regardless.

To uninstall the Software Vulnerability Manager Agent service, while leaving the registry settings intact:

```
csia.exe -r -N
```

To remove the service, if installed, and delete the \Software\Secunia\Software Vulnerability Manager Agent registry key from everywhere in the registry (exclusive):

```
csia.exe --delete-all-settings
```

## Modify Settings

Save command line setting to the registry, so the service will use it. The settings are saved to the location based on where installed the Software Vulnerability Manager Agent reads the settings from. If no agent is installed, or the settings cannot be saved to the correct location, nothing is saved, an error is printed and the command aborts:

```
csia.exe -S <config option>
```

## Controlling the Service

Starts the service if it is not running (exclusive):

```
csia.exe --start  
csia.exe --restart
```

Stops the service if it is running (exclusive):

```
csia.exe --stop
```

## Scanning from the Command Line

Run Software Vulnerability Manager Agent with immediate command line scan, with options. Ignores registry settings and server settings:

```
csia.exe -c <config options>
```

Run Software Vulnerability Manager Agent locally in service mode as current user, reading options from command line, registry and server, with command line options taking precedence, then server options, then registry options. To stop the service once it is running, press CTRL+C:

```
csia.exe -fg <config options>
```

If possible, run the Software Vulnerability Manager Agent locally in service mode as a different user with -L and -R. This will read options in exactly the same way as a service, with the exception of <config options> on the command line override which, unlike a service, has no command line:

```
csia.exe -fg -L <config options>  
csia.exe -fg -R <user> <config options>
```

Order of precedence:

- Settings given on command line take precedence but, when running as a service, there is no command line.
- Settings from server take precedence over settings read from registry.

## Randomizing the Agent Scan Schedule

Set up a random scan schedule to stagger the scanning of multiple machines within a system. This command line applies to all platforms.

```
csia.exe -c -si <scan interval upper limit>
```

“si” represents scan interval, and the scan interval’s upper limit can be set up by the number of minutes.

For example, `csia.exe -c -si 120` would mean that the scanning agent will start scanning after a delay of random minutes, which could be from 1 to 120 minutes.

## Agent Configuration Options

The following table lists the Agent configuration options.

**Table 6-1 • Agent Configuration Options**

Configuration Option	Description
<b>Program Options:</b>	
<code>-A/--network-appliance</code>	Run in Network Appliance mode.
<code>-c/--cli</code>	Run software inspection from the command line using command-line settings and server-supplied settings.  Exit codes returned:  0 - SUCCESS  1 - SERVER BUSY  2 - OPERATION FAILED  3 - SERVICE FAILED
<code>-d &lt;path&gt; --debug &lt;path&gt;</code>	Write diagnostic information to the specified file.
<code>--getfileinfo &lt;path&gt;</code>	Directory for output file
<code>-h/--help</code>	Display this message and exit.
<code>-n/--checkin-interval &lt;interval&gt;</code>	Set the check-in interval for the service. This setting is in the format INTEGER followed by M/H/D representing minutes, hours, or days.  Example: 10M for a 10-minute interval or 2H for a two-hour interval
<code>-o/--outdir &lt;path&gt;</code>	Directory for output file
<code>-oc/--output-csv &lt;file&gt;</code>	Output inspection results to a CSV file.
<code>-ox/--output-xml &lt;file&gt;</code>	Output inspection results to an XML file.

**Table 6-1 • Agent Configuration Options (cont.)**

Configuration Option	Description
-si/--scantime_interval <minutes>	Set a random range to delay running software inspection. 0 means no random range, or 1-60 minutes.
--skip-wait/--skipwait	Skip the initial 10 minute wait before the first check in.
-v --verbose	Display or log additional diagnostic information.
-V/--version	Display program version information and exit. Use this option when you want to check the version of the agent.
<b>Customer Area Option:</b>	
-g/--group <group>	Create host as a member of <group> in your Software Vulnerability Manager Account (defaults to domain or langroup if unspecified).
Mac Agent Option:	
--delete-all-settings	Deletes all information, including Globally Unique Identifiers (GUID), from the system to ensure it is clean to accommodate a new installation.
<b>Network Settings:</b>	
-D --direct-connection	Bypass proxy, use direct connection.
--forcehttps	Force HTTPS, regardless of port. When this option is not specified, we default HTTPS on port 443 and HTTP on other ports. This option is for debugging purposes.
--ignore-ca	Ignore unknown certificate authority.
--ignore-cn	Ignore invalid Common Name in cert.
--ignore-crl	Ignore Certificate Revocation list.
--pac-url <url>	Proxy Autoconfig url
--request-timeout <minutes>	Sets a timeout on network connections. Set for 1-10 minutes or use 0 for no timeout. Use this option to increase the timeout period of HTTP requests to prevent the timeout error when the server does not respond in 2 minutes.
-U <user:pass> --proxy-user <user:pass>	Set proxy credentials (saved in encrypted form).

**Table 6-1 • Agent Configuration Options (cont.)**

Configuration Option	Description
--use-network-winhttp	Enable WinHttp network stack (default).  Use WinHTTP when you want the agent to control the behaviors of the HTTP Internet protocol. We default WinHTTP to force using TLS 1.2. Also, the command line options for proxy such as -x, -U, and -D are designed to work in conjunction with WinHTTP. This option is for debugging purposes.
--use-network-wininet	Enable WinInet network stack.  Use WinInet when you want to control the behaviors of HTTP Internet protocol using the Internet Options. Since WinInet does not have services support, the agent running as a service ignores this option. This option is for debugging purposes.
-x <proxy:port> --proxy <proxy:port>	Set proxy.
<b>Proxy Options:</b>	
-D/--direct-connection	Force direct connection, overriding default internet proxy settings.
--pac-url <URL>	Specify the URL of the Proxy Auto Configuration file (.pac/.dat).
-U/--proxy-user <user[:pass]>	Specify Proxy authentication.
-x/--proxy <host[:port]>	Use HTTP proxy on given port.
<b>Scan Options:</b>	
--check-wmi	Use WMI to get Windows updates.  Use this option to query Windows updates on SCCM using WMI in addition to a query using Windows Update Agent.  This option could be used to see if the SCCM client on the device/host can be used for reporting missing KBs.
-t/--type	Software Inspection Type: 1, 2 (default), or 3.  1: Inspect applications in default locations only.  2: Inspect applications in non-default locations.  3: Inspect all .dll, .exe, and .ocx files.  For details, see <a href="#">Scan Types</a> .
-w/--no-os-update/--no-win-update	Do not connect to Windows Update.

**Table 6-1 • Agent Configuration Options (cont.)**

Configuration Option	Description
--wua-proxy <0,1 or host[:port]>	Configure proxy settings for Windows Update.  0: Use the default setting.  1: Use the proxy configured with -x/--proxy.  <host[:port]> Manually set the proxy host and port.
<b>Scan settings that server can override:</b>	
-g <group> --group <group>	Group name for association
-n <minutes>M --checkin-interval <minutes>M  -n <hours>H --checkin-interval <hours>H	Set Check-in interval.
-w --no-win-update --no-os-update	Disable windows update check.
<b>Security Options:</b>	
--ignore-ca	Ignore Unknown SSL Certificate Authority (CA).
--ignore-crl	Ignore SSL Certificate Revocation Check.
--ignore-cn	Ignore Invalid SSL Certificate Common Name (CN).
<b>Server Options:</b>	
--userid <userid>	Set the Software Vulnerability Manager access user ID.
--token <token>	Set the Software Vulnerability Manager access token.
--host <hostname>	Set the Server hostname.
--port <port>	Set the Server port.
<b>Service Options:</b>	
--delete-all-settings	Delete all settings related to this program from the registry.  Deletes these settings from all registry keys.

**Table 6-1 • Agent Configuration Options (cont.)**

Configuration Option	Description
--dry-run/--dryrun	Run up to the point of scanning without writing any changes and then exit (useful to log the configuration).  Use this option to examine if the agent is able to run and communicate with the server. It will exit before scanning and won't make any changes to the system. You can use this option along with -c.
-i/--install	Install service.
-L/--localsystem	Run the service as the LocalSystem user.
--manual	When installing, set service to only be started manually, rather than automatically
-N/--no-registry-write	When installing, do not write any settings to registry.  When removing, do not delete settings from registry.
-p/--copy <dest>	Before installing, copy executable file to <dest> and install the service to run from <dest>.
-r/--remove	Remove service.
-R/--runas <user[:pass]>	Specify the user the service should run as.  For a domain user type "user@domain" or "domain\user"
-S/--only-save-settings	Only save settings from the command line to registry, as the relevant user.  Does not run, install or remove.  Use this option when you want to modify the agent registry settings after the agent is installed. You need to restart the agent service to make the changes effective.  This option could be used to edit the server options like userid/token/host/port stored in the registry.  This setting is the opposite of "-N" options. If -N is used, no registry setting will be edited.
<b>Service Recovery Settings:</b>	
--service-failure-actions <actions>	Failure actions and their delay time (in milliseconds), separated by / (forward slash) – e.g., run/5000/reboot/800. Valid actions are <run restart reboot>. (Must be used in conjunction with the --service-failure-reset option)
--service-failure-command <command line>	Command line to be run on failure.

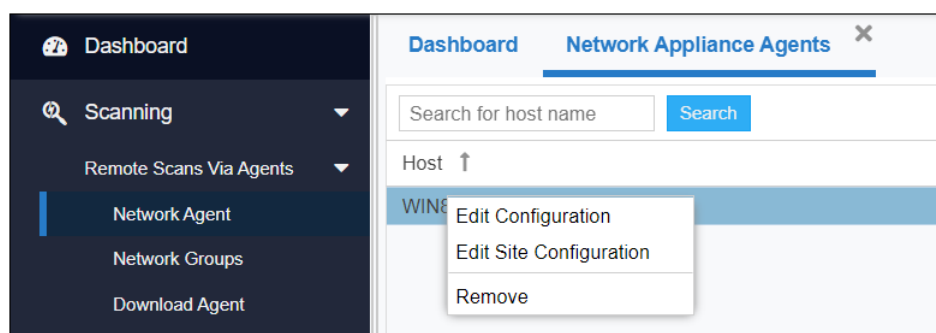


**Table 6-1 • Agent Configuration Options (cont.)**

Configuration Option	Description
--service-failure-flag	Changes the failure actions flag setting of a service. If this setting is not specified, the Service Control Manager (SCM) enables configured failure actions on the service only if the service process terminates with the service in a state other than SERVICE_STOPPED. If this setting is specified, the SCM enables configured failure actions on the service if the service enters the SERVICE_STOPPED state with a Win32 exit code other than 0 in addition to the service process termination as above. This setting is ignored if the service does not have any failure actions configured.
--service-failure-reboot <message>	Message broadcast before rebooting on failure.
--service-failure-reset <period>	Length of period of no failures (in seconds) after which to reset the failure count to 0 (may be INFINITE). (Must be used in conjunction with --service-failure-actions)

## Network Appliance Agents

Use this page to view a list of the hosts which have Network Appliance Agents installed. Right-click a host to configure the Network Appliance Agent installed on that host.



To scan using a Network Appliance Agent you must:

- Install the Agent in Network Appliance mode
- Create a Network Appliance Scan Group

A schedule links the above to perform scans of the group at set intervals.

To create a target group to be scanned by a Network Appliance agent, see [Network Appliance Groups](#).

To download the network agent, see [Download Network Agent](#).

## Network Appliance Groups

Use this page to create a target group that will be scanned by a Network Appliance Agent. Click New Group to create a new target group that will be remotely scanned by one of the Network Appliance Agents previously installed.

## Download Network Agent

Use this page to download the csia.exe file as well as read an explanation on how to install the Network Appliance Agent.



**Important** • Ensure that the Agent file csia.exe is available in the system that will host the Agent in Network Appliance mode.

Example: If you want to scan three different networks (for example Germany, United States, and United Kingdom) without having to install the Agent in Single Host mode, then you can install three instances of csia.exe in Network Appliance mode, one on each network.

Afterwards you will be able to scan all the hosts on the three locations at scheduled intervals by creating the appropriate scan groups in Network Appliance Groups and assigning each group to its respective and previously installed Network Appliance Agent.

Result: 15 minutes after installing a csia.exe in Network Appliance mode, the Network Appliance Agent will appear in Scanning > Remote Scanning Via Agents > Network Appliance Agents.

To specify the target host to be scanned by the Network Appliance Agent, please configure the scan group in Scanning > Remote Scanning Via Agents > Network Appliance Groups.

Install the Network Appliance Agent from the command prompt using:

```
>csia.exe -A -i
```

It is essential that the csia.exe is installed with the correct credentials.

The user installing the Network Appliance Agent must have administrator rights to all the target hosts that will be scanned by the Network Appliance Agent.

Example of an installation:

```
C:\Documents and Settings\Administrator>cd "\Program Files\Secunia\CSI"
C:\Program Files\Secunia\CSI>csia.exe -A -i
Enter password for user 'Administrator':
Starting 'Secunia CSI Agent' service
'Secunia CSI Agent' service started
'Secunia CSI Agent' successfully installed
C:\Program Files\Secunia\CSI>
```

## Scanning Via Local Agents

Software Vulnerability Manager provides different scan approaches, enabling you to select the one that best suits your environment. The Agent-based deployment is more robust and flexible for segmented networks or networks with mobile clients (for example, laptops). Once installed, the Agent will run silently in the background.

This is the recommended scanning approach due to its flexibility, usage convenience, and performance.



**Important** • Please consider the system requirements for the Scan Groups/Agent-based scans, described in:

- [Agent-based Scan – Requirements for Windows](#)
- [Agent-based Scan – Requirements for Mac OS X](#)
- [Agent-based Scan – Requirements for Red Hat Enterprise Linux \(RHEL\)](#)

[The Scan Process – How Does it Work?](#) graphic references agent configuration options that are compared in [Scan Types](#).

To scan using the Agent installed in Single Host mode, see [Single Host Agents](#).

To download the local agent, see [Download Local Agent](#).

## Scan Types

When configuring the agent, you will be asked to select an **Inspection Type** or scan type, which are compared below.

**Table 6-2** • Scan Types

Scan Type	Folders Searched	File Name Match	Applications Detected
Minimal Scan - Scan Type 1	Default folders only Example: Program Files	File names are matched first; then metadata is matched  Example: c:\Program Files\Mozilla Firefox\Firefox.exe	Known applications in predefined locations on a host
Optimal Scan - Scan Type 2	All files and folders	File names are matched first; then metadata is matched  Example: c:\Custom Mozilla Firefox Folder\Firefox.exe	Known applications in any location (“portable applications”) on a host
Full Scan - Scan Type 3	All files and folders	Metadata only  Example: c:\Custom Mozilla Firefox Folder\myFirefox.exe	Renamed applications that match a pattern detected in the first two scan types such as .exe, .dll, and .ocx in any location on a host



**Note** • Scan Type 2 is the default scan type.

## Single Host Agents

This page allows you to:

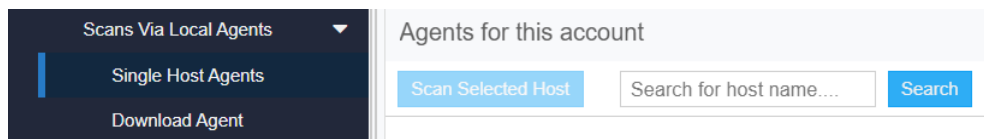
- Search for a site name to edit the configuration for agents joined to different sites.
- Manage configurations and schedule scans for the hosts where the Agent is installed as a service in Single Host mode.



### Task

**To search for a site name to edit the configuration for agents joined to different sites:**

1. Navigate to the **Single Host Agents** view.



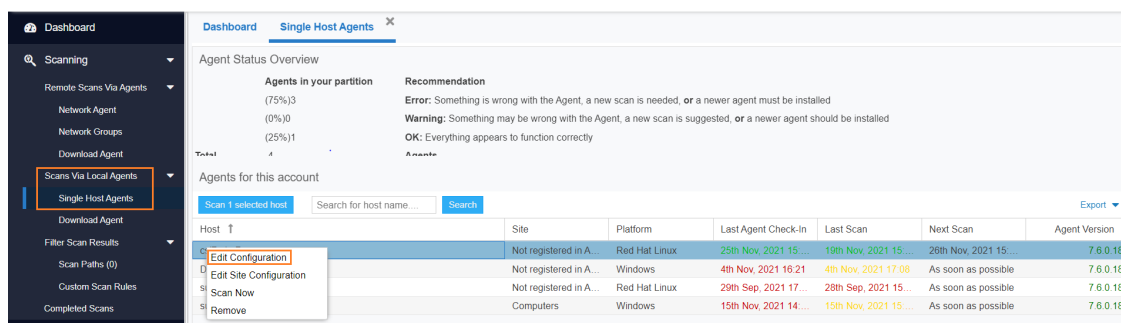
2. In the **Scan 1 selected host** search box, enter the site name and host name using the “OR” condition to show the respective result.



### Task

**To manage the configuration of the selected Agent and change its settings (Inspection type, Check-in frequency, Days between scans):**

1. Double-click a host or Right-click a host name and select **Edit Configuration**.



The **Agent Configuration for Host** wizard opens.

Agent Configuration for Host: c:\windows\system32\cmd.exe

Configure details regarding the inspection conducted on the hosts running the Agent. The changes will automatically be updated in the database and applied to the Agents the next time they check-in with Software Vulnerability Manager.

Inspection Type

☐ Type 1: Default Paths (Fast)

☒ Type 2: All Paths (Thorough)

☐ Type 3: Inspect all .dll, .exe, and .ocx files (Slow)

☐ Check for missing Microsoft security updates

Agent Check-In Frequency

Agent check-in frequency: 25

Time unit: M:Minutes

Schedule Scans

Days between scans: 7

Start the scan after:

Schedule Next Scan

☐ Scan host as soon as possible

Or insert date and time: 2021-11-19 15:52

Save Configuration Cancel

2. Change the below settings as required:
  - Inspection Type
  - Agent Check-In Frequency
  - Schedule Scans
  - Schedule Next Scan
3. Select **Save Configuration** to save the changes.



## Task

**To manage the configuration of the selected Site and change its settings (Inspection type, Check-in frequency, Days between scans):**

1. Right-click a host name and select **Edit Site Configuration** to manage the configuration for all the hosts in that Site.

The screenshot shows the 'Single Host Agents' page. On the left, a sidebar menu has 'Single Host Agents' highlighted. The main area shows 'Agent Status Overview' with statistics and a table of agents. A right-click context menu is open over the first agent, with 'Edit Site Configuration' selected.

Host	Site	Platform	Last Agent Check-in	Last Scan	Next Scan	Agent Version
C...	Not registered in A...	Red Hat Linux	25th Nov, 2021 15...	19th Nov, 2021 15...	20th Nov, 2021 15...	7.6.0.18
D...	Not registered in A...	Windows	4th Nov, 2021 16:21	4th Nov, 2021 17:08	As soon as possible	7.6.0.18
S...	Not registered in A...	Red Hat Linux	29th Sep, 2021 17...	28th Sep, 2021 15...	As soon as possible	7.6.0.18
S...	Computers	Windows	15th Nov, 2021 14...	15th Nov, 2021 15...	As soon as possible	7.6.0.18

2. Select **Yes** in the **Confirm Edit** alert box.

The screenshot shows a 'Confirm Edit' dialog box with a question mark icon. The text asks: 'Confirm that you wish to edit/overwrite the scheduling settings for the standalone agents within the specified site?'. There are 'Yes' and 'No' buttons at the bottom.

3. Agent Configuration for site wizard opens, you can change the below settings as required:

- Inspection Type
- Agent check-in frequency
- Schedule Scans
- Schedule Next Scan



**Note** • A **Site** is linked to multiple hosts, **Edit Site configuration** reflects the setting changes in all the hosts in that Site.

Agent Configuration for site: Not registered in Active Directory

Configure details regarding the inspection conducted on the hosts running the Agent. The changes will automatically be updated in the database and applied to the Agents the next time they check-in with Software Vulnerability Manager.

Inspection Type

☐ Type 1: Default Paths (Fast)
☒ Type 2: All Paths (Thorough)
☐ Type 3: Inspect all .dll, .exe, and .ocx files (Slow)
☐ Check for missing Microsoft security updates

Agent Check-In Frequency

Agent check-in frequency: 25
Time unit: M:Minutes

Schedule Scans

Days between scans: 7
Start the scan after:

Schedule Next Scan

☐ Scan host as soon as possible
Or insert date and time: 2021-10-06 15:41

Save Configuration
Cancel

4. Select **Save Configuration** to save the changes.



**Important** • When selecting options under **Edit Site Configuration**, note that:

- Any edits to the scan schedule will come into affect only after the currently scheduled scan has completed. Each agent could potentially have a scan scheduled at different times. Therefore, any new scan configuration edit will affect the scan schedule at various times.
- Any edits made to the **Agent Check-In Frequency** option or selecting the **Schedule Next Scan** option **Scan host as soon as possible** will come into effect only after an agent has checked in as per the previously set scan frequency.
- The scan configuration settings set on the Software Vulnerability Manager website are not automatically transmitted to the agents. The agents have to connect to the Software Vulnerability Manager website as per their prior scheduled **Agent Check-In Frequency** before the agents become aware of the new scan configuration edits.

The hosts scanned with the csia.exe will be grouped by Site. By default the domain name will be used as a Site name.

To change a Site name, please refer to [Sites](#). You can also specify a Site name when installing the Agent, by using the -g parameter or by specifying a site name in the additional parameters when creating the Agent deployment package described in [Agent Deployment](#).



**Note** • When the agent runs as a service agent, It reads CSIAUser, CSIA token, CSIAHost, CSIAPort, ProxyURL, and other optional settings from registry HKEY\_LOCAL\_MACHINE\SOFTWARE\WOW6432Node\Secunia\CSI Agent.

When the agent runs manually from the command line, the agent reads only CSIAUser, CSIA token, CSIAHost, and CSIAPort from the registry unless required settings are specified on the command line or embedded in the executable. Other optional settings such as **ProxyURL** to be specified on the command line. The Agent doesn't read them from the registry.

5. The color coding are as mentioned below:

- Last Agent Check-In
  - If date is more than 7 days (604800 seconds) => Red
  - If date is more than 1 day (86400 seconds) => Yellow
  - If date is less than 1 day => Green
- Last Scan
  - If date is more than 32 days (2764800 seconds) => Red
  - If date is more than 8 day (691200 seconds) => Yellow
  - If date is less than 8 day => Green

Host	Site	Platform	Last Agent Check-In	Last Scan	Next Scan	Agent Version
csi7.php7.com	Not registered in A...	Red Hat Linux	25th Nov, 2021 15...	19th Nov, 2021 15...	26th Nov, 2021 15...	7.6.0.18
DESKTOP-L6TD3D9	Not registered in A...	Windows	4th Nov, 2021 16:21	4th Nov, 2021 17:08	As soon as possible	7.6.0.18
	Not registered in A...	Red Hat Linux	29th Sep, 2021 17...	28th Sep, 2021 15...	As soon as possible	7.6.0.18
	Computers	Windows	15th Nov, 2021 14...	15th Nov, 2021 15...	As soon as possible	7.6.0.18

## Download Local Agent

Use this page to download the signed and unsigned Agents (csia.exe) as well as read an explanation on how to install the Agent in Single Host mode. For the signed Agents you shall download the token file csia\_token.ini.

The following unsigned Agents are available:

- Download Agents with Token
  - Microsoft Windows (ver. 7.6.0.10)
  - Macintosh OS X - 64bit (ver. 7.6.0.10)
  - Macintosh OS X - 32bit (ver. 7.6.0.7)
  - Red Hat Linux 7.x (ver. 7.6.0.10)
  - Red Hat Linux 6.x (ver. 7.6.0.10)

The following Signed Agents are available:



- Download Signed Agents without Token
  - Microsoft Windows (ver. 7.6.0.10)
  - Macintosh OS X - 64bit (ver. 7.6.0.10)



**Important** • Note the following for Signed Agents:

- To install signed agent for Windows, download [csia\\_token.ini](#) and place it in the same folder where agent is saved.
- To install signed agent for MacOS, see [Prepare Your Mac](#).

If your intention is to deploy the Software Vulnerability Manager Agent through WSUS/System Center please refer to [Agent Deployment](#) for further information.



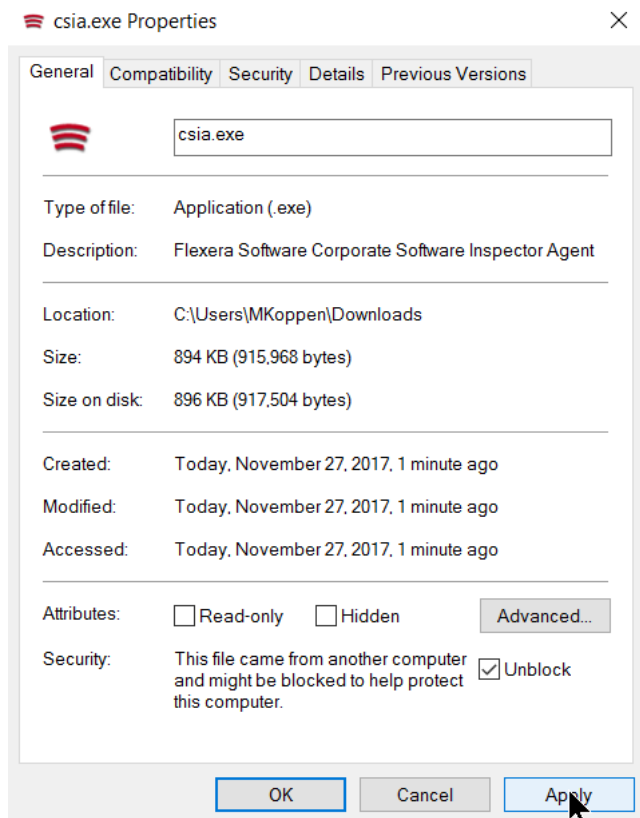
**Important** • Ensure that the Agent ([csia.exe](#)) is available in a local folder on the target PC before installing.

## Example

Install the [csia.exe](#) (Agent) in Single Host mode; download the Agent from the Software Vulnerability Manager console under **Scanning > Scanning via Local Agents > Download Local Agent**.

The screenshot displays the 'Download Local Agent' page in the Software Vulnerability Manager console. The left sidebar contains a navigation menu with the following items: Dashboard, Scanning, Remote Scans Via Agents, Network Agent, Network Groups, Download Agent, Scans Via Local Agents, Single Host Agents (highlighted), Filter Scan Results, Scan Paths (0), Custom Scan Rules, Completed Scans, Results, Reporting, Patching, Administration, and Configuration. The main content area is titled 'Download Local Agent' and includes the following sections:

- Recommended For**: Laptops and hosts that can not be scanned remotely, e.g. hosts that are not always online.
- Example**: Install the Agent in Single Host mode on corporate laptops. Everytime the laptops connects to the Internet they will check-in with server to verify if a new scan should be done. After scanning, the results will automatically show up in the Results Database. Thus enabling you full control to scan and view results of hosts that are not always connected to your network.
- Result**: Hosts scanned in Single Host mode will show in the Results Database similar to all other scan result. When and how they are scanned can be remotely controlled and configured from the Agent Management window, where the hosts automatically appear after being setup with the agent.
- Instructions**:
  1. Download the Agent using the links shown below.
  2. Transfer the Agent to the host where it should be installed
  3. Login to the host and install the agent. For help, press F1.
  4. Signed agents obtain the tokens from external configuration file, csia.ini
- Download Agents with Token**:
  - [Microsoft Windows](#) (ver. 7.6.0.10) (2)
  - [Macintosh OS X - 64bit](#) (ver. 7.6.0.10) (2)
  - [Macintosh OS X - 32bit](#) (ver. 7.6.0.7) (2)
  - [Red Hat Linux 7.x](#) (ver. 7.6.0.10) (2)
  - [Red Hat Linux 6.x](#) (ver. 7.6.0.10) (2)
- Download Signed Agents without Token**:
  - [Microsoft Windows](#) (ver. 7.6.0.10) (2)
  - [Macintosh OS X - 64bit](#) (ver. 7.6.0.10) (2)
- Configuration file**: [csia\\_token.ini](#)
- Email Agent details**: [Email agent details](#)



**Note** • Make sure to right click on the .exe in the deployment share to “Unblock” it. Click **Apply > OK**.

Once the Agent is installed, every time, for example, the laptop goes online (Internet connection) it will verify if a new scan should be conducted.

After scanning, the result will be displayed in Scanning > Completed Scans in the Software Vulnerability Manager console.



**Important** • When the Agent is installed a unique identifier is generated so that each Agent has its own unique ID. For this reason, the Agent should not be included in OS images. Doing so will result in having several instances of the same Agent and in the inability to correlate the scan results with the scanned hosts.

## Result

Hosts scanned with the Agent in Single Host mode will be displayed in Results > Host Smart Groups.

When and how the hosts are scanned can be controlled from the Software Vulnerability Manager console under Single Host Agents. Right-click a host name and select Edit Configuration to change the Agent settings.

Install the Agent from the command prompt with Local Admin account using:

```
csia.exe -i -L
```

Example of an installation:

```
C:\Documents and Settings\Administrator>cd "\Program Files\Secunia\CSI"  
C:\Program Files\Secunia\CSI>csia.exe -i -L  
Starting 'Secunia CSI Agent' service  
'Secunia CSI Agent' service started  
'Secunia CSI Agent' successfully installed  
C:\Program Files\Secunia\CSI>
```

By using the -L parameter, the Agent will be installed as a service running under the LocalService user account. For further information, refer to: <http://msdn.microsoft.com/en-us/library/windows/desktop/ms684190%28v=vs.85%29.aspx>

If you are a member of a domain and you do not use the -L switch, the service will be installed under the user account performing this action, granting the “logon as a service” privilege.

However, this privilege is usually removed in the next GPO background refresh since domain policies will not allow it. As a consequence, the Agent will stop working after the privilege has been removed.

Refer to [Agent Deployment](#) to deploy the csia.exe through WSUS/System Center for further information of how to deploy the csia.exe via Group Policy.



**Important** • The csia.exe file is a customized executable, unique and private for your Software Vulnerability Manager account. This means that the csia.exe automatically links all scan results to your Software Vulnerability Manager account.

Once the Agent is installed it will automatically scan after ten minutes. You can also initiate an on demand scan by executing csia.exe -c.

## Run Scan from System Center Configuration Manager (SCCM)

The Software Vulnerability Manager Agent does not have to be installed on the local host to do a scan. You can create a traditional package in SCCM and run the scan on a weekly basis. To do this, you first need to be able to connect to <https://csi7.secunia.com>.



### Task

**To run the Software Vulnerability Manager Agent inside an SCCM package:**

1. Download the latest Software Vulnerability Manager Agent as per [Download Local Agent](#).
2. Launch the ConfigMgr console. Select **Software Library > Application Management > Packages**.
3. From the ribbon, click **Create Package**.
4. Complete the package information and click **Next**.

Create Package and Program Wizard

Package

Package

Program Type

Standard Program

Requirements

Summary

Progress

Completion

Specify information about this package

Enter a name and other details for the new package. To take full advantage of new features that include the Application Catalog, use an application instead.

Name: Flexera CSI Scan Package

Description:

Manufacturer: Flexera

Language: ENG Version: 7.5.0.11

☒ This package contains source files

Source folder: \\scm16\Source\Packages\CSI\_Agent Browse...

< Previous Next > Summary Cancel

5. On the **Program Type** page, ensure **Standard Program** is selected and click **Next**.
6. On the **Standard Program** page, configure the following settings and click **Next**.
  - Name: **CSI Scan**
  - Command Line: `csia.exe -c -si 120 -v -d c:\windows\temp\csiscan.log` (creates a scan log file up to 16 MB in size)
  - Run: **Hidden**
  - Program can run: **Whether or not a user is logged on**

Create Package and Program Wizard

Standard Program

Specify information about this standard program

Name: CSI Scan

Command line: csia.exe -c -v -d c:\windows\temp\csiscan.log Browse...

Startup folder:

Run: Hidden

Program can run: Whether or not a user is logged on

Run mode: Run with administrative rights

☐ Allow users to view and interact with the program installation

Drive mode: Runs with UNC name

☐ Reconnect to distribution point at log on

< Previous Next > Summary Cancel

7. On the **Requirements** page, complete the requirements as shown below and click **Next**.

Create Package and Program Wizard

Requirements

Specify the requirements for this standard program

☐ Run another program first

Package: Browse...

Program:

☐ Always run this program first

Platform requirements

☒ This program can run on any platform

☐ This program can run only on specified platforms

☐ All Windows RT

☐ All Windows RT 8.1

☐ All Windows 10 (32-bit)

☐ All Windows 10 (64-bit)

☐ All Windows 7 (64-bit)

☐ All Windows 8 (64-bit)

☐ All Windows 8.1 (64-bit)

☐ Windows Embedded 8 Industry (64-bit)

☐ Windows Embedded 8 Standard (64-bit)

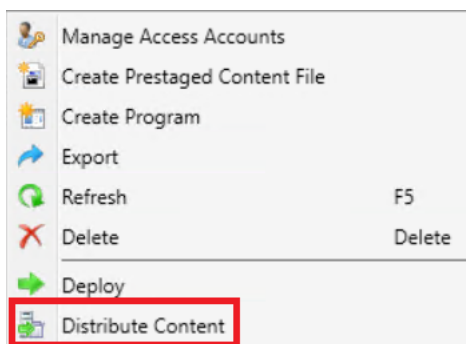
☐ Windows Embedded 8.1 Industry (64-bit)

Estimated disk space: 2 MB

Maximum allowed run time (minutes): 60

< Previous Next > Summary Cancel

- Finish the wizard.
- Distribute the package to all Distribution Points or groups using the **Distribute Content** feature.



### Task To create the initial scan and the weekly reoccurring scan:

1. Select the Package and click **Deploy** on the ribbon.
2. On the **General** page, select the target collection and click **Next**.
3. On the **Content** page, verify that the content is distributed and click **Next**.
4. On the **Deployment Settings** page, ensure the purpose is Required and click **Next**.
5. On the **Scheduling** page, in the Assignment schedule click **New**. Schedule a scan for as soon as possible and create a weekly scanning schedule. Also configure the Rerun behavior deployment to **Always rerun program**.

Deploy Software Wizard

Scheduling

General  
Content  
Deployment Settings  
**Scheduling**  
User Experience  
Distribution Points  
Summary  
Progress  
Completion

Specify the schedule for this deployment

This program will be available as soon as it has been distributed to the content servers unless it is scheduled for a later time below. For required applications, specify the assignment schedule.

☐ Schedule when this deployment will become available:  
11/17/2017 10:01 AM ☐ UTC

☐ Schedule when this deployment will expire:  
11/17/2017 10:01 AM ☐ UTC

Assignment schedule: New... Edit... Delete

As soon as possible  
Occurs every 1 weeks on Friday effective 11/17/2017 10:02 AM

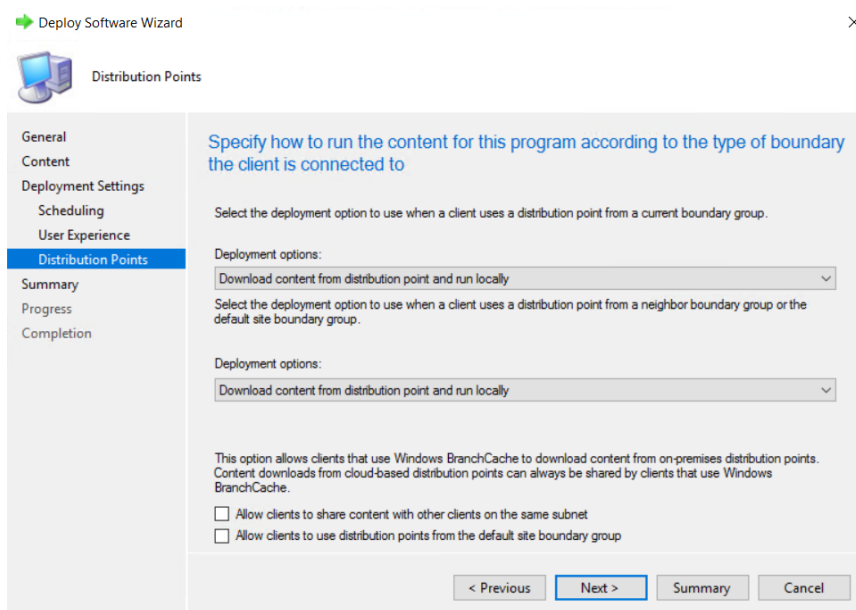
Rerun behavior: Always rerun program

< Previous Next > Summary Cancel



**Tip** • For larger environments, it is recommended to spread out the execution schedule of the scan package to avoid spikes of network traffic.

6. On the user **Experience** page, click **Next**.
7. On the user **Distribution Points** page, select **Download content**, and click **Next**.



8. Finish the wizard.

You can now monitor the scanning results from the Software Vulnerability Manager console.

## Scanning Mac OS X

To scan Apple Mac OS X machines, you need to deploy the Single Host Agent locally on the target system.

The installation can only be done under the Mac Terminal, as the Agent will be installed as a daemon (service) under the LocalSystem account.

Installation of Local Services on Mac OS X systems requires root privileges. The 'root' account is disabled by default on Mac systems; therefore you need to enable it to proceed.

Before scanning Mac OS X machines, please see the following sections:

- [Download the Software Vulnerability Manager Agent for Apple Mac OS X](#)
- [Prepare Your Mac](#)
- [Install the Mac Agent](#)

## Download the Software Vulnerability Manager Agent for Apple Mac OS X

The Software Vulnerability Manager Agent for Mac OS X (csia) is a small, simple, customizable and extremely powerful Software Vulnerability Manager scan engine that offers a fully featured command line interface (CLI) to the Software Vulnerability Manager scanning functionality.

This allows you to run Software Vulnerability Manager scans directly from the command line, or to launch scans by using the Software Vulnerability Manager console.

You can download the Agent binary under Scanning > Scanning via Local Agents > Download Local Agents.



---

**Important** • Ensure that the Agent is always available in a local folder on the target host.

## Prepare Your Mac

Installation of daemons (services) on Mac OS X systems requires root account privileges. This means that root account should always be used when installing the Software Vulnerability Manager Agent.

You can switch to your local root account by using the command “su root” in your Mac Terminal. You will be prompted to provide the password for the root account.

```
bash-3.2$ su root
Password:
```

Provide the password for “root” if you know it. If you are not certain about the password, you may want to try entering “toor”, which is the default password for the root account, or you may also try with the current password of your Administrator account. Both ways may work, but if the account is disabled on the system, none of the passwords would work.



---

**Important** • The Terminal window will not display the password you typed in. Once you have entered the password correctly, press ENTER and wait for confirmation.

If you do not know the password for the root account, or the latter is currently disabled, you can perform the following actions to enable the account and set a new password:

- Open Terminal
- Type `sudo passwd root`
- Provide a new password

For more details on how to enable root account on Mac OS X systems, please refer to:

<http://support.apple.com/kb/ht1528>



---

**Important** • If you cannot enable the “root” account on the Mac, or you prefer to not use it directly, you can alternatively use the “sudo” switch before each command associated with Agent activities. For example: “`sudo ./csia -i -L`” can be used to install the Agent on the system.

Once you are ready with setting/logging the root account you are one step away from installing the Agent.

When you download the Agent on a Mac system, normally the file is being set with limited file permissions on the system. You must check whether the file is allowed execution on the system by using the “`ls -l`” command which will list the file and will show its file permissions.



```
-rwxrwxrwx 1 csc staff 803460 May 30 11:04 csia
-rwxr-xr-x@ 1 csc staff 803460 Jun 11 13:04 csia_cs50
```

In case the permissions do not include execute rights (the “x” character) for any user, you should set them for the root account by using the `chmod +x csia` command.

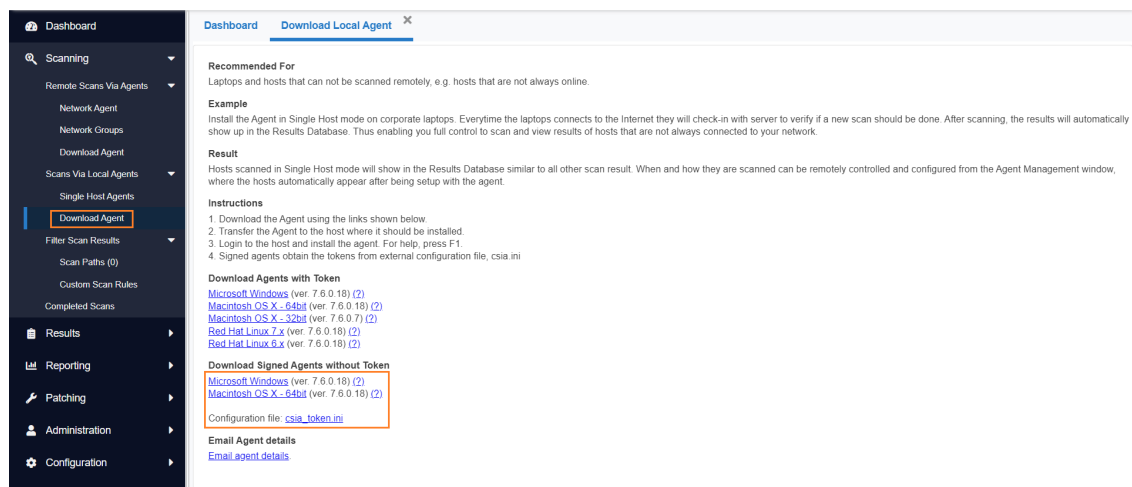
`chmod +x csia`

(If you are not using the root account, add `sudo` before `chmod`)



**Note** • For MacOS Catalina and Mojave note the following:

- In **Scanning > Scanning Via Local Agents > Download Local Agent**, download the disk image and `csia_token.ini`.



- Double-click the downloaded disk image to view the `csia` executable file.
- Drag & drop the `csia` executable file and `csia_token.ini` to your desired location to install the Mac agent.

## Install the Mac Agent

The traditional way of installing the Software Vulnerability Manager Agent is as a daemon (similar to local service in Windows) as it will operate under the Mac OS X LocalSystem account.



### Task

**Install the binary by using the Mac Terminal services as follows:**

1. Open **Terminal**:
  - `sudo su`
  - Pass: (Administrator password)
  - `whoami` (should be root)
2. Browse to the directory where you have placed the `csia` binary file:
  - `chmod +x csia`

- Type the following command to install the Agent: `sudo ./csia -i`
- Type the following command to launch the Agent scan: `./csia -c`

---

```
CSC-Mac:Downloads csc$ sudo ./csia -i
[01/20 13:40:49.294] Initializing Flexera Software Corporate Softwa
[01/20 13:40:49.311] GUID : F34D6E90-AFC4-401C-A687-4D3CAC380643
[01/20 13:40:49.318] 'com.secunia.csia' service started
```

The Agent shows in the Software Vulnerability Manager console approximately 15 minutes after the installation.

Use the “-h” switch to see a full list of parameters supported by the Agent.

## Scanning Red Hat Enterprise Linux (RHEL)

Red Hat Enterprise Linux (RHEL) 6 and 7 are the only operating systems officially supported by Flexera for the Software Vulnerability Manager RHEL scan Agent. It may be possible to install the scan Agent on operating systems and configurations other than those described. However, these have not been tested and are not supported by Flexera.

The scan Agent for RHEL uses the inventory which is already present (RPM) and displays this in the Software Vulnerability Manager after being processed by Flexera Detection/Version Rules. To download the Software Vulnerability Manager Agent for Red Hat Linux, go to Scanning > Scanning via Local Agents > Download Local Agents. For further information, see [Installing the Software Vulnerability Manager Agent for Red Hat Linux](#).

## Installing the Software Vulnerability Manager Agent for Red Hat Linux



**Note** • This is a sample reference implementation that you can use to help guide your setup.

### To install the Software Vulnerability Manager Agent for Red Hat Linux:

The RHEL 6 Agent requires: bash, gzip, sed, gawk, procps, coreutils, glibc(x86-32), libcurl(x86-32), libconfig(x86-32), libuuid(x86-32), yum, yum-security

The RHEL 7 Agent requires: bash, sed, gawk, procps, coreutils, glibc(x86-32), libcurl(x86-32), libconfig(x86-32), libuuid(x86-32), yum

Login as root at the RHEL machine and install/update the package (the same command line option works for both cases):

```
su root
yum localinstall --nogpgcheck <path>/csia_linux-7.x.x.xx-x.noarch.rpm
```

### Specifying proxy settings for the scanner (recommended method):

You can update the proxy setting to override the environment variables:

Update the proxy setting in the configuration file `/etc/csia/csia.conf`

Login as root and restart the scanner service:

```
su root
service com.secunia.csia restart (RHEL 6)
```

OR

```
systemctl restart com.secunia.csia.service (RHEL 7)
```

### **Specifying the LAN Group of the machine:**

This setting will be overridden if the DNS domain name of the machine is publicly available (check with the “dnsdomainname” command).

Update the LanGroup setting in the configuration file /etc/csia/csia.conf

Login as root and restart the scanner service:

```
su root
service com.secunia.csia restart (RHEL 6)
```

OR

```
systemctl restart com.secunia.csia.service (RHEL 7)
```

### **Immediately update the RHEL Agent configuration:**

If you have set the Agent check-in time to, for example, 1 day, it will be 1 day until the RHEL Agent picks up any configuration changes. If you want the RHEL Agent to immediately adapt to configuration changes, you can use the commands below to accomplish this by simply restarting the Agent service.

Login as root and restart the scanner service:

```
su root
service com.secunia.csia restart (RHEL 6)
```

OR

```
systemctl restart com.secunia.csia.service (RHEL 7)
```

### **Uninstalling:**

Login as root and uninstall the scanner RPM package:

```
su root
rpm -e csia_linux
```



---

**Important** • *Software Vulnerability Manager supports scanning **Red Hat Enterprise Linux 8**.*

## Filter Scan Results

Software Vulnerability Manager has the following scan features to restrict the locations inspected by the scan and to create and maintain custom rules for scanning customer created programs, drivers, and Plug-ins.

- [Scan Paths](#)
- [Custom Scan Rules](#)

## Scan Paths

Use this feature to create either a Allow list or Block list of paths/locations to restrict the locations inspected by the Software Vulnerability Manager scan.

You can add environment variables to the Allow list and Block list in the Scan Paths view. The environment variables will be resolved to the full path by the windows agent while scanning a host and will appropriately be either scanned or skipped.

### For Example:

If %windir% is added to the Block list in the Scan Paths, then the agent will skip **C:\Windows** folder and its subfolders while scanning a host.

Click Add Allow list Rule or Add Block list Rule and enter the Name, Path and Site (optional) details.



**Important** • This feature is not applicable to RHEL.

If using the Allow list, all the locations listed will be inspected by the scanner and any other locations are excluded from Software Vulnerability Manager inspections.

If using the Block list, all the locations/paths block-listed will be ignored and any other paths are inspected by the Software Vulnerability Manager scan.



**Important** • Use this feature with caution. By using the Scan Path Rules some of your paths will be excluded from the scan and Software Vulnerability Manager will not alert you towards excluded insecure products, even if they potentially expose your hosts to security threats.



**Important** • It is not possible to simultaneously use both a Block list and a Allow list.



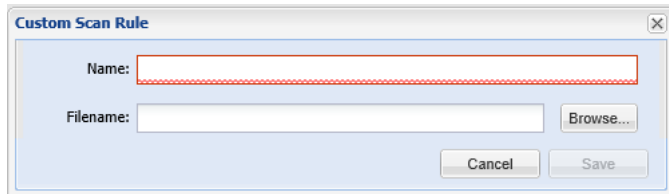
**Note** • To exclude **Microsoft One Drive** files from agent scan, add "\\OneDrive\" to you block list.

To exclude **Dropbox** files from agent scan, add "\\Dropbox\" to you block list.

To exclude **Box.net** files from agent scan, add "\\Box\" to you block list.

## Custom Scan Rules

Use the Custom Scan Rules page to create and maintain custom rules for scanning customer created programs, drivers, and plug-ins. Click New Custom Scan Rule and enter a Name for the rule and the Filename to scan. Click Browse to search for the file you want to add to the rule.



The 'Custom Scan Rule' dialog box contains two input fields: 'Name' and 'Filename'. The 'Name' field is highlighted with a red border. To the right of the 'Filename' field is a 'Browse...' button. At the bottom of the dialog are 'Cancel' and 'Save' buttons.

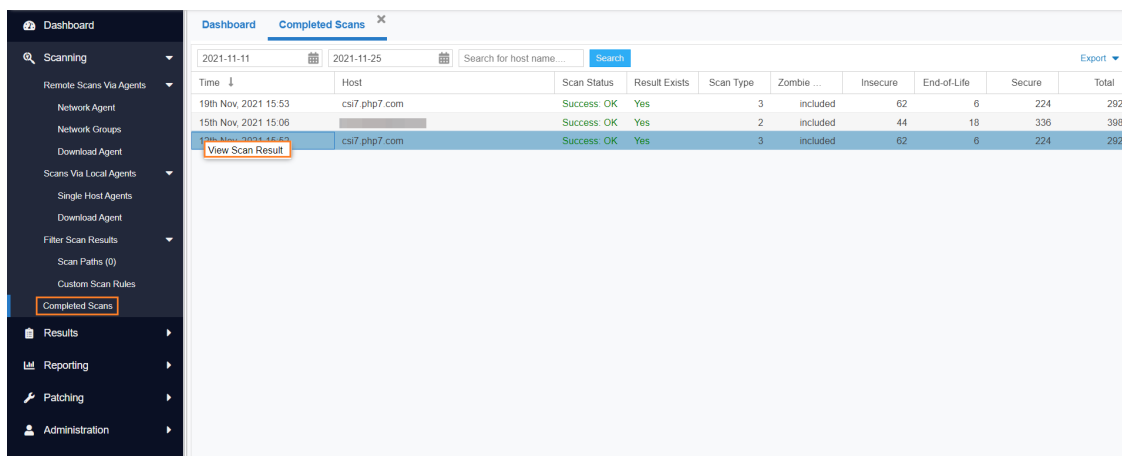
Right-click a rule in the grid to edit or delete the rule.



**Important** • The file to be scanned must contain valid File Version Information.

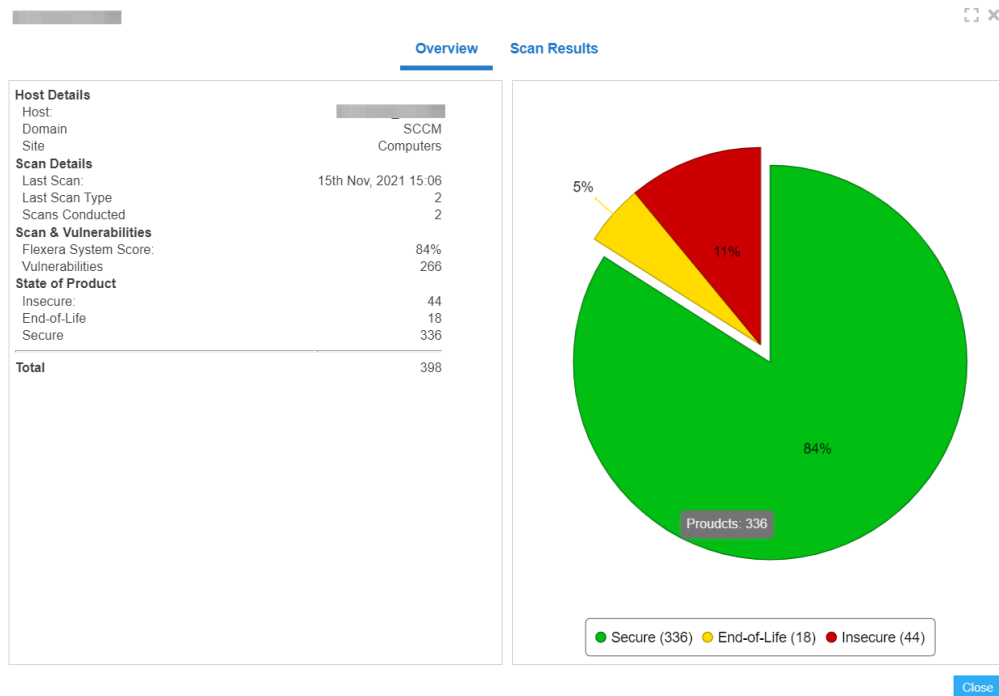
## Completed Scans

Use this page to view a summary of the scans conducted. Double-click an entry for further details or right-click and select **View Scan Result**.



The screenshot shows the 'Completed Scans' dashboard. On the left is a navigation menu with options like Scanning, Remote Scans Via Agents, Network Agent, Network Groups, Download Agent, Scans Via Local Agents, Single Host Agents, Download Agent, Filter Scan Results, Scan Paths (0), Custom Scan Rules, Completed Scans (highlighted), Results, Reporting, Patching, and Administration. The main area displays a table of scan results for the date range 2021-11-11 to 2021-11-25. The table has columns for Time, Host, Scan Status, Result Exists, Scan Type, Zombie, Insecure, End-of-Life, Secure, and Total. The last row, dated 17th Nov, 2021 15:06, shows a successful scan for 'csi7.php7.com' with a 'View Scan Result' link highlighted.

Time	Host	Scan Status	Result Exists	Scan Type	Zombie	Insecure	End-of-Life	Secure	Total
19th Nov, 2021 15:53	csi7.php7.com	Success: OK	Yes	3	included	62	6	224	292
15th Nov, 2021 15:06		Success: OK	Yes	2	included	44	18	336	398
17th Nov, 2021 15:06	csi7.php7.com	Success: OK	Yes	3	included	62	6	224	292



## Scan Status:

### Success

The scan was completed successfully.

### Partial

The Software Vulnerability Manager scans consists of two parts; the first part is the scan of third-party applications, the second part is collecting information about Microsoft patching status from the Windows Update Agent (WUA).

If the Software Vulnerability Manager scan engine is not able to obtain the required information from the WUA, the scan result will be Partial. Check the setting that controls the behavior of the WUA when a scan is completed (refer to [Settings](#) for further information).

### Failed

Software Vulnerability Manager was not able to connect to the remote target to perform the scan. Refer to [Remote/Agent-less Scan – Requirements \(Windows\)](#) for further information.

## Possible Reasons for Scan Status

After you complete a scan, you will see a **Completed Scans** page. This page includes a **Scan Status** column. The following table explains the possible reasons for the Scan Status.

**Table 6-3 • Possible Reasons for Scan Status**

Scan Status	Possible Reasons
<b>Success: OK</b>	Scan executed successfully.
<b>Partial Success</b>	Scan executed with partial success.
<b>Partial: Windows Update Failed</b>	<p>The scan was partially successful. An error occurred during the Windows update check due to possibly one or all of the following reasons:</p> <ol style="list-style-type: none"> <li>1. It appears that the RPC service is not running or that the Host is firewalled to disallow access to the RPC service.</li> <li>2. You do not appear to have specified the correct login credentials to perform Windows Update checks on the Host.</li> <li>3. Check that the Windows Update service is running on the Host and that you use the correct administrative login credentials.</li> </ol> <p>NOTE: This means that certain Microsoft products for this Host are listed with a potential incorrect security state.</p>
<b>Failure</b>	Scan failed.
<b>Failed: License Limit Reached</b>	<p>You have reached the limit of your CSI License Key. To resolve this issue:</p> <ol style="list-style-type: none"> <li>1. Please make sure that you have removed all retired machines from your CSI console using the database cleanup tool.</li> <li>2. You may need to purchase more host licenses. Please contact <a href="mailto:sales@flexera.com">sales@flexera.com</a> for more licenses.</li> </ol>
<b>Failed: No Connection</b>	Could not connect to Host. Check that the Host is not blocked by a firewall.
<b>Failed: Resolving Host</b>	Could not resolve Host. Please verify that you typed the host name correctly.
<b>Failed: Access Denied</b>	The scan failed. Please verify that you are using the correct administrative login credentials for the Host.
<b>Failed: Error Connecting</b>	Check that you have sufficient privileges to access the Host. Check that the Host is not blocked by a firewall.
<b>Failed: Partial Success</b>	<p>The scan started, but it could not be completed due to possibly one or all of the following reasons:</p> <ol style="list-style-type: none"> <li>1. Please verify that you are using the correct administrative login credentials for the Host.</li> <li>2. 'Easy File Sharing' is disabled on the Host.</li> <li>3. The Host is not blocked by a firewall.</li> </ol>
<b>Failed: No Data Retrieved</b>	The scan started, but it could not be completed. Please verify that you are using the correct administrative login credentials for the Host. 'Easy File Sharing' is disabled on the Host. The Host is not blocked by a firewall.

**Table 6-3 •** (cont.)Possible Reasons for Scan Status

Scan Status	Possible Reasons
<b>Failed: IP/AD Restrictions</b>	The user who installed the agent on the specific machine is not allowed to scan a machine with that IP address.
<b>Failed: Communications Error</b>	There has been a communications error between the agent and the Host. This could be a temporary issue, so rescanning may resolve this issue.



# 7

## Results

After scanning your system, you can use the following options to view your scan results:

- [Sites](#)
- [Smart Groups](#)
- [Host Smart Groups](#)
- [Product Smart Groups](#)
- [Advisory Smart Groups](#)

## Sites

Use this page to view the Sites maintained within your account. You can double-click a Site name to see all the hosts grouped under that Site name.

Right-click a Site to view its Hosts or delete the Site.

Scanned hosts will be grouped in a Site with the same name as the domain they log on to.



---

**Important** • Switching to Active Directory will remove your current Sites structure (your existing data will be backed up).

## Smart Groups

Smart Groups are the medium by which a Software Vulnerability Manager user views scan results. You are able to see the hosts, products, and associated advisories that are available to you, based on your view of the network as configured by your administrator. Furthermore, you are able to create custom filtered views of each of these using a variety of predefined criteria. The All Hosts, All Products, and All Advisory default Smart Groups are created by Flexera, and cannot be edited or deleted. They represent an unfiltered view for their respective content. Use the filters when creating additional Smart

Groups to effectively customize the data you are most interested in, and want to see, create reports on, receive alerts and notifications about, and see dashboard portlet data on. Smart Groups are the basis by which most data in Software Vulnerability Manager is viewed, and can be used effectively to optimize your workflow.



**Note** • Smart Groups are generated periodically, and the data you see is only as current as the last time the Smart Group was compiled. At any time you can queue the recompilation of a Smart Group to get the most current data.

Within the Smart Group grids, you can double-click to view/edit an existing group's configuration. Alternatively, right-click a Smart Group to view, edit, compile or delete the group.

Select a Smart Group and click Queue For Compilation to update the data and notifications for the group. The group will usually update within minutes.

Click Create New Smart Group to configure a new Smart Group. Click + and – to add or remove criteria.

Click Templates, where available, to open the Smart Group Example Use Cases page. Select an appropriate use case and click Use Template to populate the Smart Group Overview and Configuration page, which you can then edit to match your specific requirements.



**Important** • If you edit a configured Smart Group, all existing log files and notifications for the Smart Group will be deleted. New logs will be created after your changes have been saved.



**Important** • Content can be available in multiple Smart Groups at the same time. For example, if you have a Smart Group showing all insecure products and another showing all products from Adobe, then if a host has an Adobe product installed that is insecure, this will be displayed in both Smart Groups. Also note that when you first run a scan you won't see the hosts in All Hosts, or any reports, until the Smart Group is compiled.



**Note** • You can click *Export* to export a single page, all pages or schedule an export. The exports are saved in CSV format.

## Host Smart Groups

This section describes how to:

- Create a New Host Smart Group (see [Create a New Host Smart Group](#))
- View existing configured Host Smart Groups (see [Overview and Configuration](#))
- Configure new Host Smart Groups (see [Configured Host Smart Groups](#))
- Filter Host Smart Groups on missing Microsoft Knowledge Base (KB) articles
- Filter Host Smart Groups on Operating System Build Version

## Create a New Host Smart Group

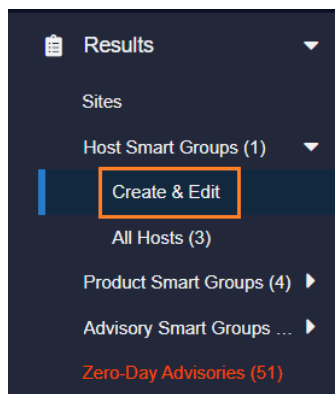
This page describes how to create a new Host Smart Group.



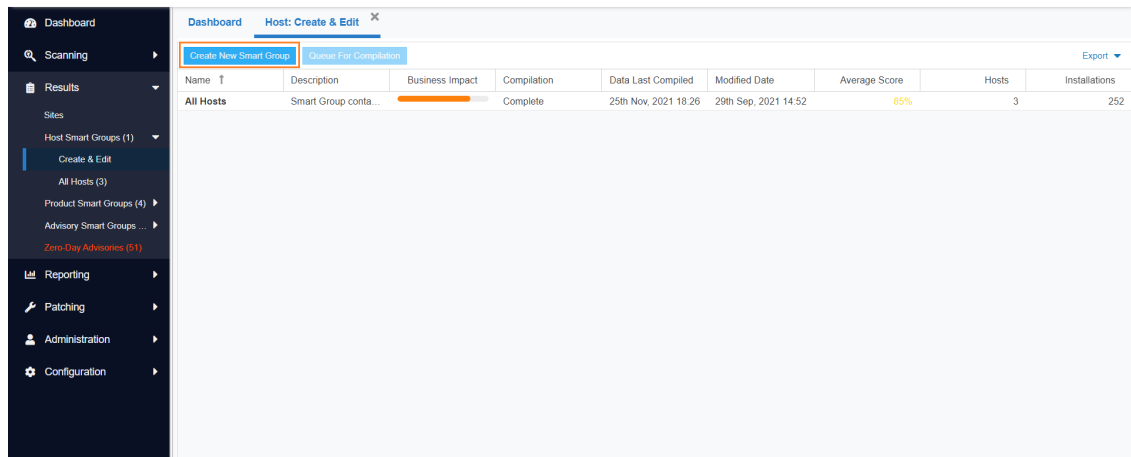
### Task

#### To create a new Host Smart Group:

1. Navigate to **Host Smart Groups > Create & Edit**.

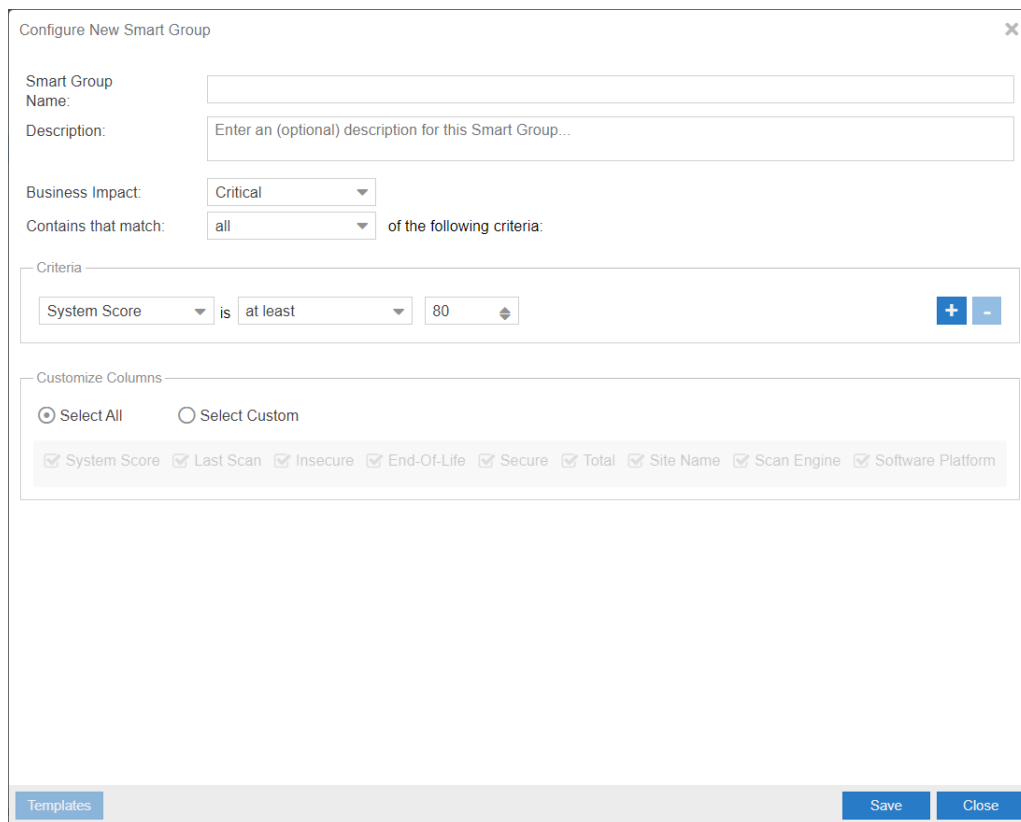


2. A list of created Host Smart Groups appears. To create a new Smart Group, click **Create New Smart Group** link.



Name	Description	Business Impact	Compilation	Data Last Compiled	Modified Date	Average Score	Hosts	Installations
All Hosts	Smart Group conta...	Complete	Complete	25th Nov, 2021 18:26	29th Sep, 2021 14:52	85%	3	252

3. The **Configure New Smart Group** dialog box opens.



Configure New Smart Group

Smart Group Name:

Description:

Business Impact:

Contains that match:  of the following criteria:

Criteria

is

Customize Columns

☒ Select All ☐ Select Custom

☒ System Score ☒ Last Scan ☒ Insecure ☒ End-Of-Life ☒ Secure ☒ Total ☒ Site Name ☒ Scan Engine ☒ Software Platform

Templates Save Close

4. Enter the valid name in the **Smart Group Name** field.
5. Enter the description of the smart group (optional) in the **Description** field.

6. From the **Business Impact** list, select the type of impact you want to add. You have the following options:

**Table 7-1 • Business Impact list**

Impact Type	Description
<b>Critical</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the red color.
<b>High</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the orange color.
<b>Medium</b>	This value is typically used for remotely exploitable Denial of Service vulnerabilities and for vulnerabilities that allow system compromises but require user interaction. It resembles the yellow color.
<b>Minor</b>	This value is typically used for cross-site scripting vulnerabilities and privilege escalation vulnerabilities. It resembles the light green color.
<b>Low</b>	This value is typically used for very limited privilege escalation vulnerabilities and locally exploitable Denial of Service vulnerabilities. It resembles the green color.

7. From the Criteria list, select the type of smart group criteria you want to add. You have the following options:

**Table 7-2 • Smart Group Criteria Options**

Smart Group Criteria	Description
<b>System Score</b>	Filter by system score.
<b>System Platform</b>	Filter by system platform.
<b>Last Scan Date</b>	Filter by last scan date of the host.
<b>Site</b>	Filter by site name.
<b>Host</b>	Filter by host name.
<b>Missing KB Article</b>	Filter hosts with missing Microsoft KB article.
<b>CVE Number</b>	Filter host by CVE Number from selected CVE list.
<b>Host Name</b>	Filter host name using begins with, starts with, and contains condition. This filter supports options like <b>contains</b> , <b>starts with</b> , and <b>equals</b> . Then enter the Host name in the text field.
<b>Site Name</b>	Filter site name using begins with, starts with, and contains condition. This filter supports options like <b>contains</b> , <b>starts with</b> , and <b>equals</b> . Then enter the Site name in the text field.

**Table 7-2 • Smart Group Criteria Options**

Smart Group Criteria	Description
<b>Operating System</b>	Filter by operating system from selected list.
<b>Operating System Build</b>	Filter by specific version of the Operating System. For more details, see <a href="#">Filter Host Smart Groups on Operating System Build Version</a> .

- After updating the above fields, click **Save** button to create a new Host Smart Group.

## Overview and Configuration

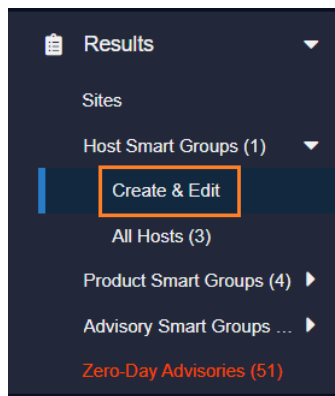
This page describes how to view existing configure Host Smart Groups and to configure new Host Smart Groups.



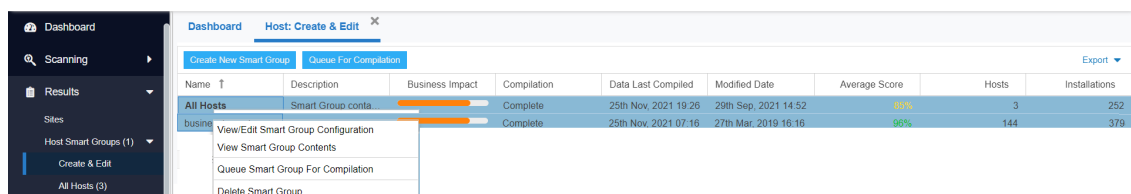
### Task

**To view the existing configured Host Smart Groups and configure new Smart Groups:**

- Navigate to **Host Smart Groups > Create & Edit**.



- Right-click an item in the grid to view, edit, compile or delete the Smart Group.



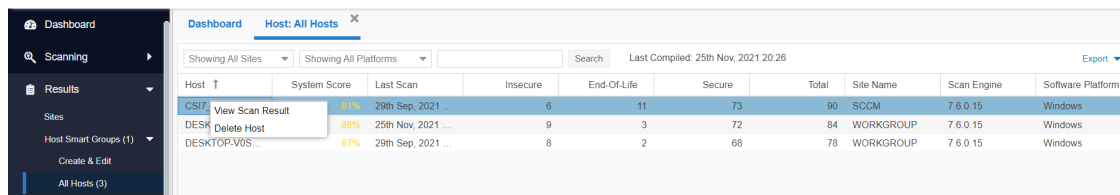
- When the View/Edit Smart Group menu appears, make the needed changes to the Smart Group.



**Note •** All Hosts is the default Smart Group and cannot be edited or deleted.

## Configured Host Smart Groups

Use this page to view the information for each Host Smart Group you created. Right-click an item in the grid to view the scan result or delete the selected host.



Host	System Score	Last Scan	Insecure	End-Of-Life	Secure	Total	Site Name	Scan Engine	Software Platform
CS17	91%	29th Sep, 2021	6	11	73	90	SCCM	7.6.0.15	Windows
DESK	86%	25th Nov, 2021 ...	9	3	72	84	WORKGROUP	7.6.0.15	Windows
DESKTOP-VOS...	87%	29th Sep, 2021 ...	8	2	68	78	WORKGROUP	7.6.0.15	Windows

## Filter Host Smart Groups on missing Microsoft Knowledge Base (KB) articles

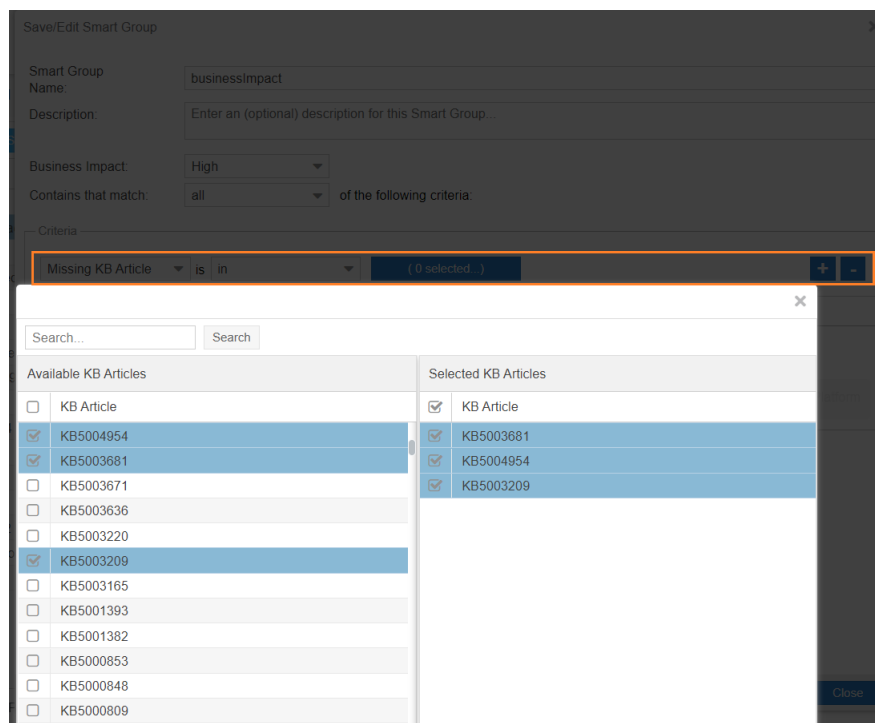
One option for filtering Host Smart Group information is by Microsoft KB articles to create a report of hosts that are missing one or several specific KB articles. This filtering can be used for new or existing Host Smart Groups.



### Task

**To create a new Host Smart Group for missing Microsoft KB articles:**

1. Navigate to **Host Smart Groups > Create & Edit**.
2. In the **Criteria** field, select the **Missing KB Article** and the appropriate **in** or **Not in** option.
3. In the **KB Article Selection**, search for the available KB articles.
4. Place a check mark in front of the appropriate KB article to include in the Host Smart Group and click **Save**.



Save/Edit Smart Group

Smart Group Name: businessImpact

Description: Enter an (optional) description for this Smart Group.

Business impact: High

Contains that match: all of the following criteria.

Criteria

Missing KB Article is in (0 selected)

Search...

Available KB Articles	Selected KB Articles
<input type="checkbox"/> KB Article	<input checked="" type="checkbox"/> KB Article
<input checked="" type="checkbox"/> KB5004954	<input checked="" type="checkbox"/> KB5003681
<input checked="" type="checkbox"/> KB5003681	<input checked="" type="checkbox"/> KB5004954
<input type="checkbox"/> KB5003671	<input checked="" type="checkbox"/> KB5003209
<input type="checkbox"/> KB5003636	
<input type="checkbox"/> KB5003220	
<input checked="" type="checkbox"/> KB5003209	
<input type="checkbox"/> KB5003165	
<input type="checkbox"/> KB5001393	
<input type="checkbox"/> KB5001382	
<input type="checkbox"/> KB5000853	
<input type="checkbox"/> KB5000848	
<input type="checkbox"/> KB5000809	

Close



**Important** • The following conditions affect the availability of selecting and listing missing Microsoft KB's.

1. The selection of a particular KB in the **Available KB Articles** field is based on whether the PC's in the partition currently have a list of missing KB's.
2. When a new KB is released, it will appear using the **in** criteria filter after the scan is completed. To include future KB's, use the **Not in** filter and choose the oldest **Available KB Articles** list.
3. Only machines with missing KB's will be listed in the new host smart group. If a machine does not have any missing KB's, then the KB will not be listed in either the **in** or **Not in** filter.



### Task

**To create a report of missing Microsoft KB articles:**

1. Navigate to the **Completed Scans** view.
2. Click **Export** to save the report as a CSV file.

Overview Scan Results									
<input type="checkbox"/> Secure <input checked="" type="checkbox"/> End-Of-life <input checked="" type="checkbox"/> Insecure									
Export									
Name ↑	Version	State	SAID	Criticality	CVSS B...	Threat S...	Issued	Vulner...	Missing M...
Microsoft Access 2019 / ...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Excel 2019 / O...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Excel 2019 / O...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Malware Prote...	1.1.1380...	Insecure	SA104932		v3: 7.8	2	17 days ...	1	
Microsoft Malware Prote...	1.1.1380...	Insecure	SA104932		v3: 7.8	2	17 days ...	1	
Microsoft Outlook 2019 / ...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft PowerPoint 20...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Publisher 2019...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Silverlight 5.x	5.1.3051...	End-Of-Life	-			-	-	-	
Microsoft Skype for Busi...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Skype for Busi...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Microsoft Windows 8.1	Windows...	Insecure	SA104961		v3: 8.8	87	17 days ...	15	5007247
Microsoft Word 2019 / O...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
Mozilla Firefox 76.x	76.0.1.7...	End-Of-Life	-			-	-	-	
Mozilla Firefox 79.x	79.0.0.7...	End-Of-Life	-			-	-	-	
Mozilla Firefox 92.x	92.0.1	End-Of-Life	-			-	-	-	
Mozilla SeaMonkey 2.x	2.53.1	Insecure	SA105229		v3: 8.8	20	10 days ...	3	
Mozilla Thunderbird 78.x	78.14.0...	End-Of-Life	-			-	-	-	
OneNote for Windows 10...	16.0.138...	Insecure	SA104635		v3: 7.8	86	17 days ...	4	
<< <   Page 1 of 2   > >>									
Displaying products 1 - 30 of 44									

## Filter Host Smart Groups on Operating System Build Version

One option for filtering Host Smart Group information is by Operating System Build. This filtering can be used for new or existing Host Smart Groups.

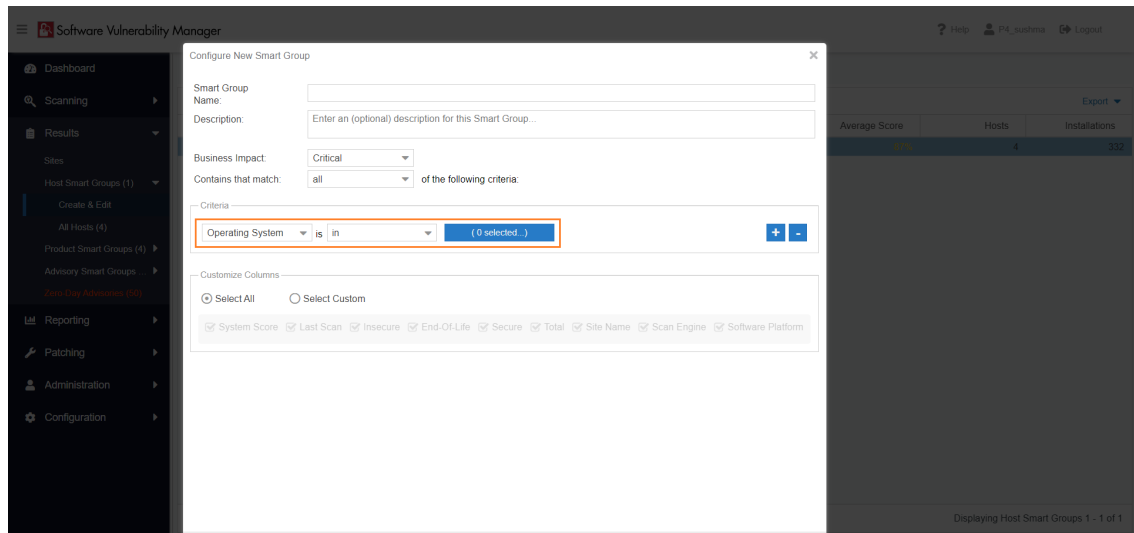


### Task

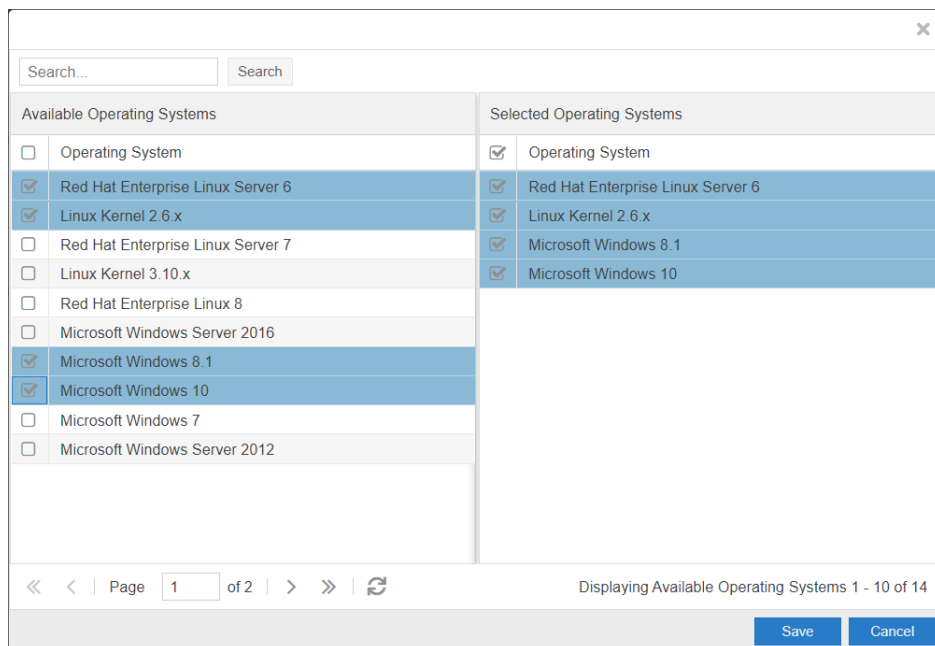
**To create a new Host Smart Group for Operating System Build:**

1. Navigate to **Host Smart Groups > Create & Edit**.
2. In the **Criteria** field, select the **Operating System Build** and the appropriate **in** or **Not in** option.





3. In the **Operating System Build Selection**, search for the available Operating System Builds.
4. Place a check mark in front of the appropriate Operating System Builds to include in the Host Smart Group and click **Save**.



## Product Smart Groups

This section describes how to:

- Create a new Product Smart Group (See [Create a New Product Smart Group](#))
- View existing configured Product Smart Groups (see [Overview and Configuration](#))
- Configure new Product Smart Groups (see [Configured Product Smart Groups](#))

- [Filter Product Smart Groups on Operating System Build Version](#)

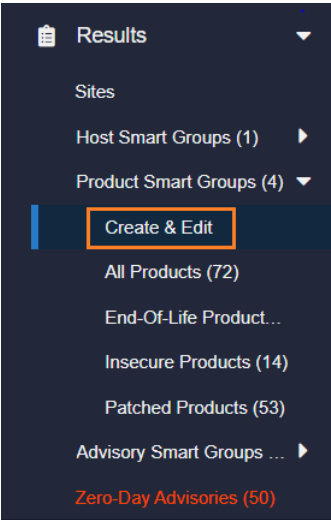
# Create a New Product Smart Group

This page describes how to create a new Product Smart Group.

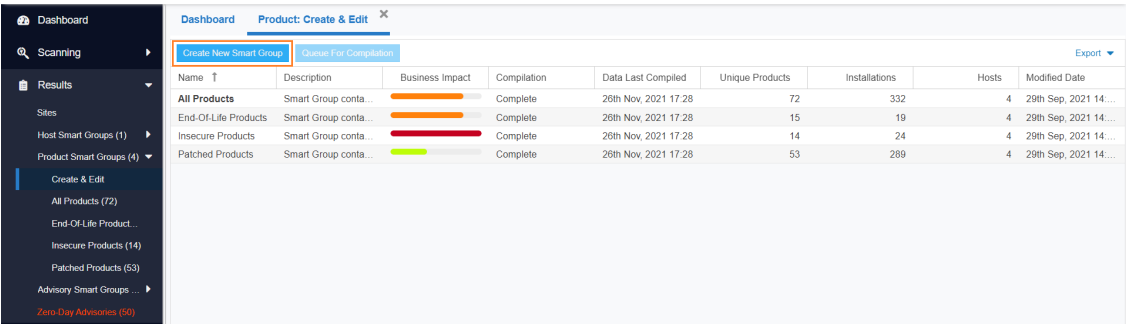


**Task**      **To create a new Product Smart Group:**

1. Navigate to **Product Smart Groups > Create & Edit**.



2. A list of created Product Smart Groups appears. To create a new Smart Group, click **Create New Smart Group** link.



3. The **Configure New Smart Group** dialog box opens.

Configure New Smart Group

Smart Group Name:

Description:

Business Impact:

Contains that match:  of the following criteria:

Criteria

is

Customize Columns

☒ Select All ☐ Select Custom

☒ Patch Version ☒ Criticality ☒ Threat Score ☒ CVSS Base Score ☒ Insecure ☒ End-Of-Life ☒ Secure ☒ Total ☒ Affected Hosts ☒ Download ☒ Product Type

Templates Save Close

4. Enter the valid name in the **Smart Group Name** field.
5. Enter the description of the smart group (optional) in the **Description** field.
6. From the **Business Impact** list, select the type of impact you want to add. You have the following options:

**Table 7-3 • Business Impact list**

Impact Type	Description
<b>Critical</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the red color.
<b>High</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the orange color.
<b>Medium</b>	This value is typically used for remotely exploitable Denial of Service vulnerabilities and for vulnerabilities that allow system compromises but require user interaction. It resembles the yellow color.
<b>Minor</b>	This value is typically used for cross-site scripting vulnerabilities and privilege escalation vulnerabilities. It resembles the light green color.
<b>Low</b>	This value is typically used for very limited privilege escalation vulnerabilities and locally exploitable Denial of Service vulnerabilities. It resembles the green color.

7. From the **Criteria** list, select the type of smart group criteria you want to add. You have the following options:

**Table 7-4 • Product Smart Group Criteria Options**

Smart Group Criteria	Description
<b>Product Status</b>	Filter by product status.
<b>Criticality</b>	Filter by criticality.
<b>Threat Score</b>	Filter by threat scores.
<b>SAID Creation Date</b>	Filter by SAILD creation date.
<b>Last Scan Date</b>	Filter by last scan date of the host.
<b>Silent Installation</b>	Filter by silent installation.
<b>Site</b>	Filter by site name.
<b>Host</b>	Filter by host name.
<b>Product</b>	Filter by product name.
<b>System Platform</b>	Filter by system platform.
<b>Software Type</b>	Filter by software type.
<b>CVSS2 Score</b>	Filter by CVSS2 score.
<b>CVSS3 Score</b>	Filter by CVSS3 score.
<b>Product Name</b>	Filter product name using <b>begins with</b> , <b>starts with</b> and <b>contains</b> condition. Then enter the Product name in the text field
<b>Host Name</b>	Filter host name using <b>begins with</b> , <b>starts with</b> and <b>contains</b> condition. Then enter the Host name in the text field.
<b>Site Name</b>	Filter site name using <b>begins with</b> , <b>starts with</b> and <b>contains</b> condition. Then enter the Site name in the text field.
<b>Vendor Name</b>	Filter vendor name using <b>begins with</b> , <b>starts with</b> and <b>contains</b> condition. Then enter the Vendor name in the text field.
<b>Operating System</b>	Filter by operating system from selected list.
<b>Operating System Build</b>	Filter by specific version of the Operating System.  Fore more information, see <a href="#">Filter Product Smart Groups on Operating System Build Version</a> .

8. After updating the above fields, click **Save** button to create a new Product Smart Group.

# Overview and Configuration

Use this page to view the existing configured Product Smart Groups and to configure new Smart Groups. Right-click an item in the grid to view, edit, compile or delete the Smart Group. To filter Product Smart Groups by the Last Scan Date, see [Last Scan Date for Product Smart Groups](#).

All Products is the default Smart Group and cannot be edited or deleted.

The other default Smart Groups for End-Of-Life Products, Insecure Products, and Patched Products have been pre-created for you by Flexera. You can right-click to view, edit, compile or delete these Smart Groups.

The screenshot shows the 'Product: Create & Edit' window. On the left is a sidebar with navigation options: Dashboard, Scanning, Results, Sites, Host Smart Groups (1), Product Smart Groups (4), Create & Edit, All Products (72), End-Of-Life Product..., Insecure Products (14), Patched Products (53), Advisory Smart Groups..., and Zero-Day Advisories (50). The main area displays a table of Product Smart Groups. A right-click context menu is open over the 'End-Of-Life Products' row, showing options: View/Edit Smart Group Configuration, View Smart Group Contents, Queue Smart Group For Compilation, and Delete Smart Group.

Name	Description	Business Impact	Compilation	Data Last Compiled	Unique Products	Installations	Hosts	Modified Date
All Products	Smart Group conta...		Complete	26th Nov, 2021 17:46	72	332	4	29th Sep, 2021 14:...
End-Of-Life Products			Complete	26th Nov, 2021 17:46	15	19	4	29th Sep, 2021 14:...
Insecure Products			Complete	26th Nov, 2021 17:46	14	24	4	29th Sep, 2021 14:...
Patched Products			Complete	26th Nov, 2021 17:46	53	289	4	29th Sep, 2021 14:...

## Last Scan Date for Product Smart Groups

Product Smart Groups can be filtered by **Last Scan Date**. This filter option lists products that were detected within a specified time interval using one of the following Last Scan Date options: exactly, prior to, after, older than, and within last.

For example: if machine1 was scanned on 26 November 2021 and a product was detected, then the product will be a result when searched using a Last Scan Date greater than 25 November 2021.

The 'Configure New Smart Group' dialog box contains the following fields and options:

- Smart Group Name:** Text input field.
- Description:** Text input field with placeholder 'Enter an (optional) description for this Smart Group...'.
- Business Impact:** Dropdown menu with 'Critical' selected.
- Contains that match:** Dropdown menu with 'all' selected, followed by 'of the following criteria:'.
- Criteria:** A row with 'Last Scan Date' in a dropdown, 'is' in a dropdown, 'prior to' in a dropdown, and '2021-11-26' in a text field with a calendar icon. There are '+' and '-' buttons to the right.
- Customize Columns:** A section with 'Select All' (selected) and 'Select Custom' radio buttons. Below is a list of checkboxes: Patch Version, Criticality, Threat Score, CVSS Base Score, Insecure, End-Of-Life, Secure, Total, Affected Hosts, Download, and Product Type. All are checked.
- Buttons:** 'Templates' (link), 'Save', and 'Close' at the bottom.

# Configured Product Smart Groups

Use this page to view the information for each Product Smart Group you created. Right-click an item in the grid and select **View Installations** to display the installation details.

Dashboard
Scanning
Results
Sites
Host Smart Groups (1)
Product Smart Groups (4)
Create & Edit
All Products (72)
End-Of-Life Product...
Insecure Products (14)
Patched Products (53)
Advisory Smart Groups ...
Zero-Day Advisories (50)
Reporting
Patching
Administration
Configuration

Dashboard Product: All Products

Show All Packages Search Last Compiled: 26th Nov, 2021 17:46 Export

Product Name	Patch Version	SAID	Advisory...	Criticality	Threat...	CVSS ...	Vendor	Insecure	End-O...	Secure	Total	Affect...	Download	Product ...
7-zip 16.x								0	1	0	1	1	Download	Program
7-zip 19.x								0	0	3	3	2	Download	Program
Adobe A...	2021.00...	SA104171	Adobe A...		8	v3.8.8	Adobe	1	0	1	2	2	Download	Program
Adobe B...	1.14.1						Adobe	0	0	2	2	2	Download	Program
Adobe FL...	Product ...						Adobe	0	3	0	3	1	Download	Program
Amazon ...	11.0.13.8.1						Amazon...	0	0	1	1	1	Download	Program
Amazon ...	8.312.07.1	SA104602	Amazon ...		23	v3.6.8	Amazon...	3	0	3	6	2	Download	Program
Apple iT...	12.12	SA104253	Apple iT...		6	v3.8.8	Apple	1	0	0	1	1	Download	Program
Blender 2.x							Blender ...	0	0	3	3	2	Download	Program
CPU-Z 1.x							CPUID	0	0	1	1	1	-	Program
eMule 0.x	0.47.2.66						eMule	0	0	1	1	1	Download	Program
FileZilla ...	3.48.0							0	0	2	2	2	Download	Program
FileZilla ...	0.9.59	SA73342	FileZilla ...		7	v2.7.8		2	0	0	2	1	Download	Program
Firebird 2.x	2.5.7						Firebird	0	0	2	2	2	Download	Program
Google ...	94.x						Google	0	1	0	1	1	Download	Program
Google ...	96.0.466...						Google	0	0	1	1	1	Download	Program
Google ...	7.3.3						Google	0	0	1	1	1	Download	Program
Google ...	Product ...						Google	0	2	0	2	1	Download	Program
KeePass...	1.18.0							0	0	1	1	1	Download	Program
LibreOff...	6.4.4	SA95073	LibreOff...		4	v3.3.3	The Doc...	1	0	0	1	1	Download	Program

<< < Page 1 of 3 > >> Refresh

Displaying Smart Group's Products 1 - 30 of 72

A dialog box opens with the installation details of the selected item.

7-zip 16.x

View from the context of Smart Group: All Products

Overview Installations All Advisories

☒ Secure
☒ End-Of-life
☒ Insecure
Export

Host	SAID	Criticality	Threat S...	State	Version	Missing MS KB	Last Scan	Path
BLR-DT-101...	-		-	End-Of-Life	16.4.0.0		15 months ago	C:\Program Files\7-Zip\7zFM.exe
CSi7_QA_W...	-		-	End-Of-Life	16.0.0.0		14 months ago	c:\program files\7-zip\7zfm.exe
DR-APPSER...	-		-	End-Of-Life	16.4.0.0		8 months ago	c:\program files\7-zip\7zfm.exe
QA_WIN81	-		-	Secure	16.0.0.0		23 months ago	c:\program files (x86)\7-zip\7zfm.exe

<< < Page 1 of 1 > >> Refresh

Displaying hosts 1 - 4 of 4

Close



**Note** • For RedHat Linux 6, RedHat Linux 7, and Microsoft products updating via KB will have blank Patched version in Product Smartgroups.

# Filter Product Smart Groups on Operating System Build Version

One option for filtering Product Smart Group information is by Operating System Build. This filtering can be used for new or existing Product Smart Groups.



## Task

**To create a new Product Smart Group for Operating System Build:**

1. Navigate to **Product Smart Groups > Create & Edit**.
2. In the **Criteria** field, select the **Operating System Build** and the appropriate **in** or **Not in** option.

Configure New Smart Group

Smart Group Name:

Description:

Business Impact:

Contains that match:  of the following criteria:

Criteria

is

Customize Columns

☒ Select All ☐ Select Custom

☒ Patch Version ☒ Criticality ☒ Threat Score ☒ CVSS Base Score ☒ Insecure ☒ End-Of-Life ☒ Secure ☒ Total ☒ Affected Hosts ☒ Download ☒ Product Type

3. In the **Operating System Build Selection**, search for the available Operating System Builds.
4. Place a check mark in front of the appropriate Operating System Builds to include in the Product Smart Group and click **Save**.

The screenshot shows a web interface for selecting operating systems. It features a search bar at the top with a 'Search' button. Below the search bar, there are two columns: 'Available Operating Systems' and 'Selected Operating Systems'. The 'Available Operating Systems' column lists various operating systems with checkboxes next to them. The 'Selected Operating Systems' column shows the same list with checkboxes, indicating which systems have been selected. At the bottom, there is a pagination bar showing 'Page 1 of 2' and a 'Save' button.

Available Operating Systems		Selected Operating Systems	
<input type="checkbox"/>	Operating System	<input checked="" type="checkbox"/>	Operating System
<input checked="" type="checkbox"/>	Red Hat Enterprise Linux Server 6	<input checked="" type="checkbox"/>	Microsoft Windows Server 2016
<input type="checkbox"/>	Linux Kernel 2.6.x	<input checked="" type="checkbox"/>	Red Hat Enterprise Linux 8
<input type="checkbox"/>	Red Hat Enterprise Linux Server 7	<input checked="" type="checkbox"/>	Microsoft Windows 7
<input type="checkbox"/>	Linux Kernel 3.10.x	<input checked="" type="checkbox"/>	Red Hat Enterprise Linux Server 6
<input checked="" type="checkbox"/>	Red Hat Enterprise Linux 8		
<input checked="" type="checkbox"/>	Microsoft Windows Server 2016		
<input type="checkbox"/>	Microsoft Windows 8.1		
<input type="checkbox"/>	Microsoft Windows 10		
<input checked="" type="checkbox"/>	Microsoft Windows 7		
<input type="checkbox"/>	Microsoft Windows Server 2012		

Page 1 of 2 | Save

## Advisory Smart Groups

This section describes how to:

- Create a new Advisory Smart Group (See [Create a New Advisory Smart Group](#))
- View existing configured Advisory Smart Groups (see [Overview and Configuration](#))
- Configure new Advisory Smart Groups (see [Configured Advisory Smart Groups](#))

## Create a New Advisory Smart Group

This page describes how to create a new Advisory Smart Group.

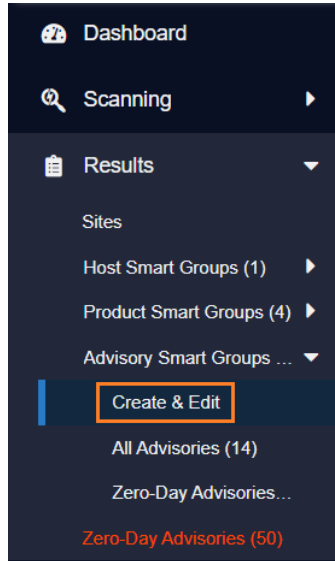




## Task

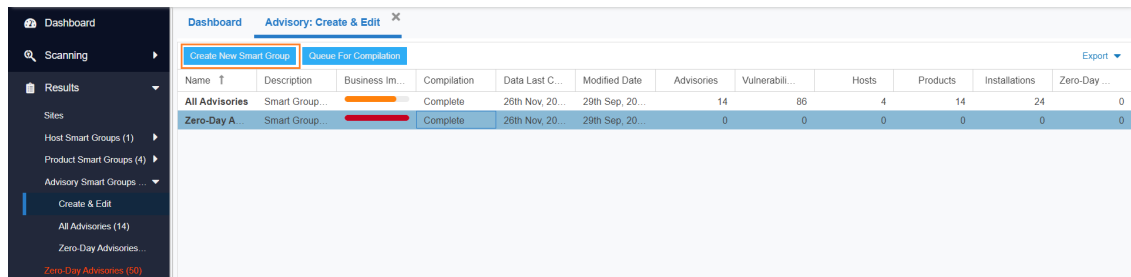
To create a new Advisory Smart Group:

1. Navigate to **Advisory Smart Groups > Create & Edit**.



2. A list of created Advisory Smart Groups appears. To create a new Smart Group, click **Create New Smart Group** link.

The **Configure New Smart Group** dialog box opens.



3. Enter the valid name in the **Smart Group Name** field.
4. Enter the description of the smart group (optional) in the **Description** field.
5. From the **Business Impact** list, select the type of impact you want to add. You have the following options:

Impact Type	Description
<b>Critical</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the red color.
<b>High</b>	This value is typically used for remotely exploitable vulnerabilities that can lead to system compromise. It resembles the orange color.
<b>Medium</b>	This value is typically used for remotely exploitable Denial of Service vulnerabilities and for vulnerabilities that allow system compromises but require user interaction. It resembles the yellow color.

Impact Type	Description
<b>Minor</b>	This value is typically used for cross-site scripting vulnerabilities and privilege escalation vulnerabilities. It resembles the light green color.
<b>Low</b>	This value is typically used for very limited privilege escalation vulnerabilities and locally exploitable Denial of Service vulnerabilities. It resembles the green color.

6. From the **Criteria** list, select the type of smart group criteria you want to add. You have the following options:

Smart Group Criteria	Description
<b>Criticality</b>	Filter by criticality.
<b>Threat Score</b>	Filter by threat scores.
<b>Advisory Published</b>	Filters by Advisory published date.
<b>Zero-Day Status</b>	Filters by zero-day or non-zero day.
<b>Impact Type</b>	Filters by Impact type of the advisory.
<b>Attack Vector</b>	Filters by on attack vector.
<b>CVSS Base Score</b>	Filters by CVSS2 or CVSS3 score.
<b>Solution Status</b>	Filters by solution Status.
<b>CVSS2 Score</b>	Filters by CVSS2 score.
<b>CVSS3 Score</b>	Filters by CVSS3 score.

7. After updating the above fields, click **Save** button to create a new Advisory Smart Group.

## Overview and Configuration

Use this page to view the existing configured Advisory Smart Groups and to configure new Smart Groups. Right-click an item in the grid to view, edit, compile or delete the Smart Group.

All Advisories is the default Smart Group and cannot be edited or deleted. For further details, see [View/Edit Smart Group Configuration](#).

**Zero-Day Advisories** reference a vulnerability that is actively exploited prior to its disclosure. These advisories can be filtered by **Advisories that Affected You** and **All Advisories**.

Dashboard

Scanning

Results

Sites

Host Smart Groups (1)

Product Smart Groups (4)

Advisory Smart Groups ...

Create & Edit

All Advisories (14)

Zero-Day Advisories ...

Zero-Day Advisories (50)

Reporting

Patching

Administration

Configuration

Dashboard

Zero-Day Advisories

Scope of Data: 

Advisories that Affected You

All Advisories

Export

Zero-Day SAID	Advisory Description	Criticality	Advisory Published	Threat Score	Vulnerabilities	Affected Installa...
SA104568	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	12th Oct, 2021	99	28	1
SA104567	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	12th Oct, 2021	99	44	3
SA104124	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	14th Sep, 2021	99	26	1
SA104120	Microsoft Windows Server 2019 / 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	14th Sep, 2021	99	34	3
SA103660	Microsoft Windows Server 2019 / 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	10th Aug, 2021	99	27	3
SA103133	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	13th Jul, 2021	99	49	1
SA103132	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	13th Jul, 2021	99	82	3
SA102675	Google Chrome Multiple Vulnerabilities	<div></div>	13th Sep, 2021	90	11	1
SA102392	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	8th Jun, 2021	99	19	1
SA102390	Microsoft Windows Server 2019 / 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	8th Jun, 2021	99	26	3
SA102083	Adobe Acrobat Reader / Acrobat Multiple Vulnerabilities	<div></div>	11th May, 2021	83	14	4
SA101469	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	13th Apr, 2021	99	79	3
SA101465	Microsoft Edge (Chromium-Based) Arbitrary Code Execution Vulnerability	<div></div>	19th Apr, 2021	84	1	7
SA100914	Microsoft Internet Explorer Multiple Arbitrary Code Execution Vulnerabilities	<div></div>	9th Mar, 2021	92	2	8
SA100521	Microsoft Windows Server 2019 / 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	9th Feb, 2021	99	28	3
SA100008	Microsoft Multiple Products Privilege Escalation Vulnerability	<div></div>	12th Jan, 2021	80	1	21
SA98970	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	10th Nov, 2020	91	33	1
SA98715	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	1st Nov, 2020	99	53	3
SA97080	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities	<div></div>	11th Aug, 2020	99	58	1
SA97079	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities	<div></div>	11th Aug, 2020	99	88	3

<<

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Page

1

of 2

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Displaying Zero-Day Advisories 1 - 30 of 50

## View/Edit Smart Group Configuration

For each Smart Group, you can create or edit the advisory criteria using the Zero-Day Status and Advisory Published criteria. Both criteria include dates, which are created using the Coordinated Universal Time (UTC). Therefore, the local zone date of the user could be different from the zone the advisory data was saved in, which may lead to a difference in advisory lists.

In the **View/Edit Smart Group** menu, you can filter results by date for the following criteria: Advisory Published, Last Scan Date, and Secunia Advisory ID (SAID) Creation Date. This filtering by date creates a list of all Advisories published on that date.

Save/Edit Smart Group

Smart Group Name: impactType

Description: Enter an (optional) description for this Smart Group...

Business Impact: Low

Contains that match: all of the following criteria:

Criteria

Advisory Published is prior to 2019-03-27

Customize Columns

☒ Select All
 ☐ Select Custom

☒ Criticality
 ☒ Threat Score
 ☒ Zero-Day
 ☒ Advisory Published
 ☒ Vulnerabilities
 ☒ Solution Status
 ☒ CVSS Base Score
 ☒ Attack Vector
 ☒ Impact
 ☒ Installations
 ☒ Products
 ☒ Hosts

Templates

Update Close

## Configured Advisory Smart Groups

Use this page to view the information for each Advisory Smart Group you created. Click a Secunia Advisory ID (**SAID**) in the grid to display the details. For further details, see [View All Advisories](#).

Dashboard

Scanning

Results

Sites

Host Smart Groups (1)

Product Smart Groups (4)

Advisory Smart Groups (5)

Create & Edit

All Advisories (14)

Zero-Day Advisories (5)

Zero-Day Advisories (50)

Reporting

Patching

Administration

Configuration

Dashboard

Advisory: All Advisories

Search Type: CVE

Search

Last Compiled: 26th Nov, 2021 19:46

Export

SAID	Advisory Description	Criticality	Threa...	Zero-Day	Advisor...	Vulne...	Solutio...	CVS...	Attack ...	Impact	Instal...	Prod...	Hosts
SA104...	Adobe Acrobat Reader (A...	<div></div>	8	No	14th Se...	18	Vendor ...	v3.8.8	From R...	System Acc...	1	1	
SA104...	Amazon Corretto Multiple ...	<div></div>	23	No	20th Oc...	11	Vendor ...	v3.8.8	From R...	Exposure of	3	1	
SA104...	Apple iTunes Multiple Arbi...	<div></div>	6	No	21st Se...	4	Vendor ...	v3.8.8	From R...	System Acc...	1	1	
SA73342	FileZilla Server OpenSSH...	<div></div>	7	No	28th Oc...	7	Vendor ...	v2.7.8	From R...	Exposure of	2	1	
SA95673	LibreOffice Multiple Secur...	<div></div>	4	No	9th Jun...	2	Vendor ...	v3.3.3	From R...	Security By	1	1	
SA105...	Microsoft Edge (Chromium...	<div></div>	8	No	22nd N...	20	Vendor ...	v3.8.6	From R...	undefined, ...	2	1	
SA103...	Microsoft Multiple Product...	<div></div>	2	No	10th Au...	1	Vendor ...	v3.7.8	From L...	Privilege Es	2	1	
SA104...	Mozilla Firefox ESR Multi...	<div></div>	23	No	2nd No...	10	Vendor ...	v3.8.8	From R...	Security By	1	1	
SA104...	Mozilla SeaMonkey Multi...	<div></div>	17	No	28th Se...	3	Vendor ...	v3.8.8	From R...	Security By	1	1	
SA103...	Mozilla Thunderbird Multi...	<div></div>	17	No	8th Sep...	3	Vendor ...	v3.8.8	From R...	Security By	1	1	
SA91115	NotePad++ Scintilla Mem...	<div></div>	2	No	18th Se...	1	Vendor ...	v3.7.8	From R...	System Acc...	2	1	
SA103...	OpenVPN Security Bypas...	<div></div>	2	No	6th Jul...	1	Vendor ...	v3.5.3	From L...	Security By	2	1	
SA102...	VLC Media Player Multipl...	<div></div>	-	No	10th Ma...	4	Vendor ...	v3.5.6	From R...	undefined, ...	2	1	
SA103...	WinSCP URL Handling Ar...	<div></div>	3	No	10th Au...	1	Vendor ...	v3.8.6	From R...	System Acc...	3	1	

## View All Advisories

Under the **Configured Advisory Group** view is a listing of All Advisories. For each advisory, you can click the corresponding number listed in the **Installations**, **Products**, and **Hosts** columns. After clicking the number in the **Installations** column, you will see a list of affected installations per host.

Dashboard														Advisory: All Advisories
Search Type		Description	Search	Last Compiled: 26th Nov, 2021 01:56										Export
SAID	Advisory Description	Criticality	Threat Score	Zero-Day	Advisory Publ.	Vulnerabilities	Solution Status	CVSS Base	Attack Vector	Impact	Installations	Products	Hosts	
SA104171	Adobe Acrobat	<div><div></div></div>	7	No	14th Sep. 2021	18	Vendor Patched	<div><div></div></div> v3.8.8	From Remote	System Access, Ex	1	1	1	
SA103765	Adobe Acrobat	<div><div></div></div>	50	No	12th Oct. 2021	4	Vendor Patched	<div><div></div></div> v3.8.8	From Remote	System Access, Ex	2	1	2	
SA98705	Amazon Corne	<div><div></div></div>	12	No	30th Oct. 2020	6	Vendor Patched	<div><div></div></div> v3.5.3	From Remote	Exposure of Sensit	1	1	1	
SA104602	SA103765 Affected Installations						hed	<div><div></div></div> v3.8.8	From Remote	Exposure of Sensit	10	1	2	
SA103200							hed	<div><div></div></div> v3.7.5	From Remote	Manipulation of Da	3	1	1	
SA104383							hed	<div><div></div></div> v3.7.8	From Remote	System Access, Sp	1	1	1	
SA101794	Product				Version	Host	hed	<div><div></div></div> v3.7.8	From Remote	Security Bypass	2	1	2	
SA104622	Adobe Acrobat Reader DC 21.x				21.5.20058.47888	DESKTOP-V0SO...	hed	<div><div></div></div> v3.8.8	From Remote	System Access	1	1	1	
SA104622	Adobe Acrobat Reader DC 21.x				21.5.20048.43252	SVM-TESTA	hed	<div><div></div></div> v3.8.8	From Remote	Manipulation of Da	1	1	1	
SA102501							hed	<div><div></div></div> v3.9.8	From Remote	Exposure of Sensit	1	1	1	
SA94916							hed	<div><div></div></div> v3.8.6	From Remote	undefined	2	1	2	
Displaying Installations Affected By Advisory 1 - 2 of 2														

The All Advisories list affecting a product shows all current and past advisories that affect a product. Note that the Secunia Advisory ID number (SAID) listed under the **SAID** column could be related to different platforms.

Dashboard

Advisory: All Advisories

Search Type

CVE

Search

Last Compiled: 26th Nov, 2021 01:56

SAID	Advisory Descriptic	Criticality	Threat Score	Zero-Day	Advisory Publ.	Vulnerabilities	Solution Status	CVSS Base ...	Attack Vector	Impact
SA104171	Adobe Acrobat...		SA103765 Affected Installations							System
SA103765	Adobe Acrobat...									System
SA98705	Amazon Corre...									Exposu
SA104602	Amazon Corre...		Product				Version	Host T		Exposu
SA103200	Amazon Corre...		Adobe Acrobat Reader DC 21.x				21.5.20958.47868	DESKTOP-VISQ...		Manipu
SA104383	Apache Open...		Adobe Acrobat Reader DC 21.x				21.5.20048.43252	SVM-TESTA		System
SA101794	Apache Open...									Securi
SA104253	Apple iTunes ...		Adobe Acrobat Reader DC 21.x							
SA104622	Azul Zulu Multi...		View from the context of Smart Group:		All Products					
SA102501	cURL / libcURL...									
SA94916	FileZilla FTP C...									
SA73342	FileZilla Server...									
SA100996	Git Arbitrary C...									
SA102473	Google Chrom...									
SA54909	IranView GIF I...									
SA95673	LibreOffice Mu...									
SA100499	Microsoft .NET...									
SA98168	Microsoft .NET...									
SA102891	Microsoft Edge...									
SA105276	Microsoft Edge...									
SA101943	Microsoft Inter...									
SA104932	Microsoft Multi...									
SA102380	Microsoft Multi...									
SA104636	Microsoft Multi...									

Overview

Installations

All Advisories

SAID	Advisory ...	Criticality	Threat S...	Advisory ...	Solution S...	Attack Ve...	Zero Day	CVSS Ba...	Vulnera...
SA104171	Adobe Acr...		8	2021-09-14	Vendor Pa...	From remote	No	v3: 8.6	2
SA103765	Adobe Acr...		80	2021-10-12	Vendor Pa...	From remote	No	v3: 8.6	2
SA102993	Adobe Acr...		61	2021-07-13	Vendor Pa...	From remote	No	v3: 8.8	10
SA102334	Adobe Acr...		8	2021-06-08	Vendor Pa...	From remote	No	v3: 7.8	8
SA102083	Adobe Acr...		83	2021-05-11	Vendor Pa...	From remote	Yes	v3: 8.8	10

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Displaying advisories 1 - 5 of 5

Close



# 8

## Reporting

This chapter describes the following Software Vulnerability Manager reporting features:

- [Report Configuration](#)
- [Smart Group Notifications](#)
- [Activity Log Notifications](#)
- [Database Access](#)
- [Scheduled Exports](#)

### Report Configuration

Use this page to view a list of reports that have been configured and scheduled for generation. You can configure a new report by clicking Generate New Report or right-click an existing report to view, edit or delete it. The Software Vulnerability Manager reporting capabilities allow the user to schedule and fully customize the intended report.



#### Task

#### To configure a report:

1. Choose between PDF and CSV as the format for the report.

Report Format

Specify the format for the report.

Select Reporting Format...

PDF

CSV



**Note** • When using the CSV option for the report format, unused options are disabled. For more information, see [Select the CSV Option for the Report Format](#).

- Choose between a One-time only report or a recurring one (daily, weekly, monthly) and click **Configure** to select the report distribution date or frequency schedule.

Report Generation Schedule

Specify the generation schedule for the report. Configure the details using the button to the right. Note: a report will always use the most current data available at the time of generation.

☐ One-Time Report - Generate only one report at a specific time.
   
☒ Recurring Report - Generate based on the a configured recurrence schedule.

Configure

Reports will be generated on Saturday November 27th, 2021, and every 1 month thereafter.

- Choose to include the Executive Summary Report which provides an overall summary with the general state of vulnerability and patch management.

Executive Summary Report

Here you can choose to include the Executive Summary Report. This is an overall summary document of the general state of vulnerability and patch management today, and the security state of your system in the context of current threats, methods for securing and staying secure, and the consequences and implications of a proper patch management solution versus not choosing such a solution.

☐ Include Executive Summary Report

- Choose the dashboard profile to be included in the report.

Dashboard Profiles

Specify the dashboard profile to be included in the report.

Available Dashboard Profiles		Selected Dashboard Profiles	
<input checked="" type="checkbox"/>	Profile	<input checked="" type="checkbox"/>	Profile
<input checked="" type="checkbox"/>	Default Profile	<input checked="" type="checkbox"/>	Default Profile

<< < | Page 1 of 1 | > >> |

Displaying Available Dashboard Profiles 1 - 1 of 1

- Choose which sites should be included together with which statistics to include.

Site Level Statistics

Select Sites

Specify the sites whose data will be used for the report.

☒ All sites for all selected users.  
☐ Use a custom selected group of sites.  
☐ Use a custom selected group of host-smart groups.

Select Sites

Select Host Smart Group

Using data from all sites for users selected above (default).

Site Level Statistics to Include

Specify the site-level statistics that will be included in the report. If none of the statistics is selected, this section will not be included into the report.

☐ Overall Summary Statistics  
☐ Overall Criticality Statistics  
☐ Overall Impact Statistics  
☐ Overall Attack Vector Statistics  
☐ By-Site Statistics on Secure Products  
☐ By-Site Statistics on Insecure Products  
☐ By-Site Statistics on End-of-Life Products  
☐ Include Detailed Site Specific Data for Each Site

6. Choose a Host Smart Group to be included together with which statistics to include.

Host Level Statistics

Specify the hosts whose data will be used for the report by selecting a smartgroup.

All Hosts

Specify the statistics that will be included for each selected host in the report.

☐ Overall Summary Statistics  
☐ Add Host Details

☐ Insecure Installation Details

Additional filter: Only include insecure installations with a rating of: 

Show All

 or Above.

☐ End-of-Life Installation Details  
☐ Secure Installation Details

7. Choose a Product Smart Group to be included together with which statistics to include.

Product Level Statistics

Specify the products whose data will be used for the report by selecting a smartgroup.

All Products

Specify the statistics that will be included for each selected product in the report.

☐ Overall Summary Statistics  
☐ Add Product Details

☐ Insecure Installation Details

Additional filter: Only include insecure installations with a rating of: 

Show All

 or Above.

☐ End-of-Life Installation Details  
☐ Secure Installation Details



8. Choose the email address of the person(s) receiving the report or, if you do not want to send the report via email, do not select any recipients.

Select Email Recipients

If you wish to receive the reports via email, please specify at least one email recipient below. If you do not want to send the report via email, do not select any recipient.

☐ Use default recipients defined in Settings page

Available Email Recipients		Selected Email Recipients			
<input type="checkbox"/>	Name	Email	<input type="checkbox"/>	Name	Email
<input type="checkbox"/>		@flexera.com			
<input type="checkbox"/>		@flexera.com			

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Displaying Available Email Recipients 1 - 2 of 2

9. Choose the name for the PDF file, set the report title, and specify if you would like to include the report parameters in the report itself. All the reports available through this feature are provided in a PDF format and will be emailed to the defined email addresses in accordance with the schedule and recurrence specified. Once generated, a report can also be downloaded directly from the main page.

General Configuration Options

Report File Name

Here you can specify a custom output file name for the generated report.

☐ Set the file name for the PDF report file generated.

PDF Filename: pdf

Report Title

Here you can specify a custom title for the front page of the report.

☒ Set the report title.

Report Title: Flexera Custom Report

Publish Report Parameters

Here you can choose whether the report parameters (configured here) should be included in the report for reference.

☐ Show Report Options and Generation Parameters



**Important** • The emails containing the PDF reports will be sent from the Flexera Data Cloud - [no-reply@flexerasoftware.com](mailto:no-reply@flexerasoftware.com). Be aware that the email server from the recipient may block/filter the email if, for example, the size of the attachment exceeds a certain pre-defined threshold. If no email is being received, please check the email Spam filter and/or the Junk folder in the email client.

## Select the CSV Option for the Report Format

When you select the CSV option for the report format, the following sections and options are disabled:

- **Executive Summary Report, Dashboard Profiles, Site Level Statistics**, and Overall Summary Statistics Check box for both **Host Level Statistics** and **Product Level Statistics** are disabled.

Configure New Report

Report Format

Specify the format for the report.

CSV

When using the CSV option for the report format, all configured sections will be rendered into a separate CSV file and then compressed into a single ZIP file. Please note that some of the configuration options below will have no effect on the resulting data in the CSV files.

Report Generation Schedule

Specify the generation schedule for the report. Configure the details using the button to the right. Note: a report will always use the most current data available at the time of generation.

☐ One-Time Report - Generate only one report at a specific time.
 ☒ Recurring Report - Generate based on the a configured recurrence schedule.

Configure

Reports will be generated on Saturday November 27th, 2021, and every 1 month thereafter.

Executive Summary Report

Here you can choose to include the Executive Summary Report. This is an overall summary document of the general state of vulnerability and patch management today, and the security state of your system in the context of current threats, methods for securing and staying secure, and the consequences and implications of a proper patch management solution versus not choosing such a solution.

☐ Include Executive Summary Report

Dashboard Profiles

Specify the dashboard profile to be included in the report.

- Insecure Installation Details for both **Host Level Statistics** and **Product Level Statistics** are enabled only when you select **Add Product Details** and **Add Host Details** respectively.

Configure New Report

Host Level Statistics

Specify the hosts whose data will be used for the report by selecting a smartgroup.

All Hosts

Specify the statistics that will be included for each selected host in the report.

☐ Overall Summary Statistics
 ☒ Add Host Details

☐ Insecure Installation Details
 

Additional filter: Only include insecure installations with a rating of: 

Show All

 or Above.

☐ End-of-Life Installation Details
 ☐ Secure Installation Details

Product Level Statistics

Specify the products whose data will be used for the report by selecting a smartgroup.

All Products

Specify the statistics that will be included for each selected product in the report.

☐ Overall Summary Statistics
 ☒ Add Product Details

☐ Insecure Installation Details
 

Additional filter: Only include insecure installations with a rating of: 

Show All

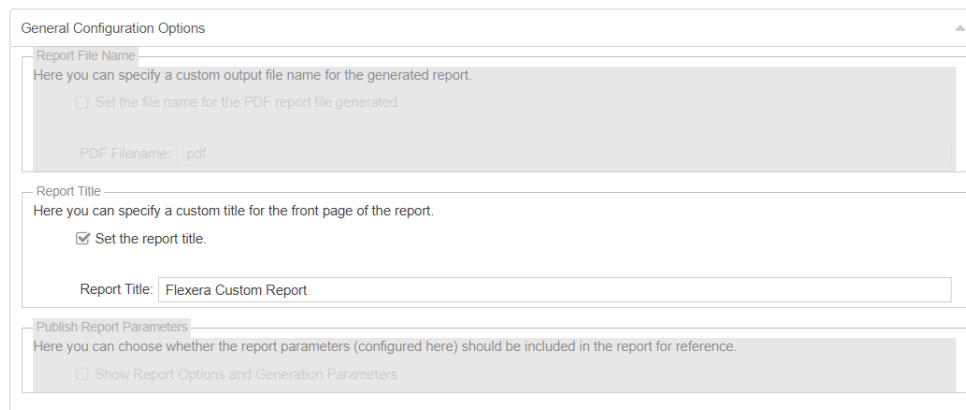
 or Above.

☐ End-of-Life Installation Details

Save

Close

- **PDF Filename** tab and **Publish Report Parameters** sections are disabled.



General Configuration Options

**Report File Name**  
Here you can specify a custom output file name for the generated report.  
☐ Set the file name for the PDF report file generated.  
PDF Filename: pdf

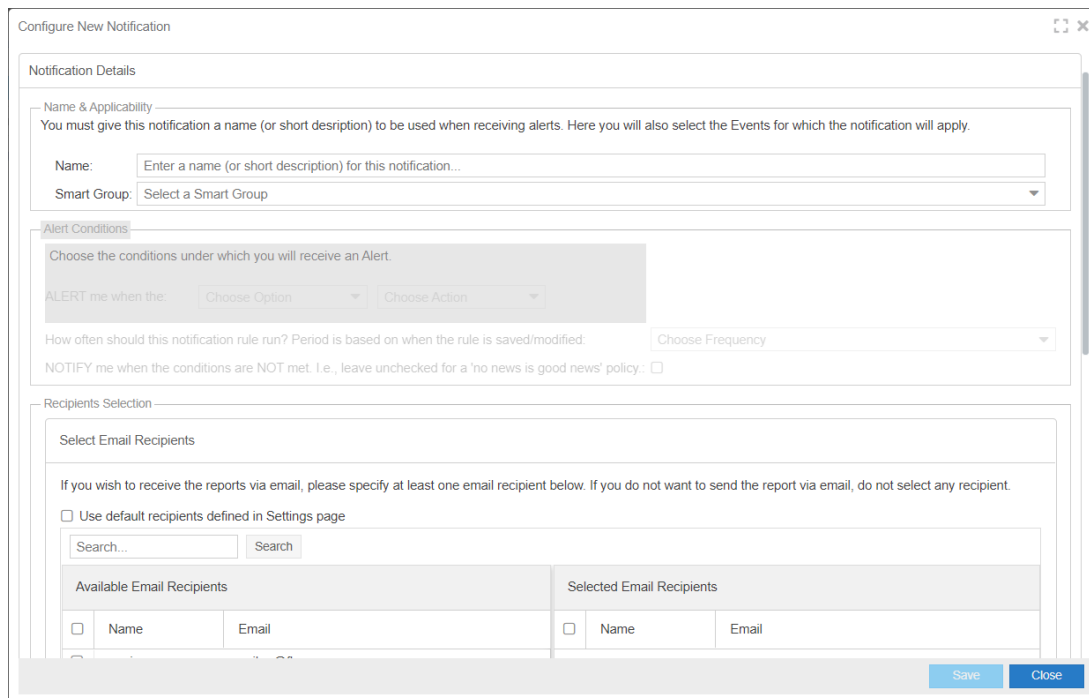
**Report Title**  
Here you can specify a custom title for the front page of the report.  
☒ Set the report title.  
Report Title: Flexera Custom Report

**Publish Report Parameters**  
Here you can choose whether the report parameters (configured here) should be included in the report for reference.  
☐ Show Report Options and Generation Parameters

## Smart Group Notifications

Use this page to create and configure reminders, notifications, and alerts for a Smart Group based on the current state or changes to a group.

Click **Configure New Notification**, enter the required information and then click **Save**.



Configure New Notification

**Notification Details**

**Name & Applicability**  
You must give this notification a name (or short description) to be used when receiving alerts. Here you will also select the Events for which the notification will apply.  
Name: Enter a name (or short description) for this notification...  
Smart Group: Select a Smart Group

**Alert Conditions**  
Choose the conditions under which you will receive an Alert.  
ALERT me when the: Choose Option Choose Action  
How often should this notification rule run? Period is based on when the rule is saved/modified: Choose Frequency  
NOTIFY me when the conditions are NOT met. I.e., leave unchecked for a 'no news is good news' policy: ☐

**Recipients Selection**

Select Email Recipients

If you wish to receive the reports via email, please specify at least one email recipient below. If you do not want to send the report via email, do not select any recipient.  
☐ Use default recipients defined in Settings page

Search... Search

Available Email Recipients		Selected Email Recipients			
<input type="checkbox"/>	Name	Email	<input type="checkbox"/>	Name	Email
<input type="checkbox"/>			<input type="checkbox"/>		

Save Close

## Activity Log Notifications

Use this page to schedule multiple notification digest for the respective events through emails.

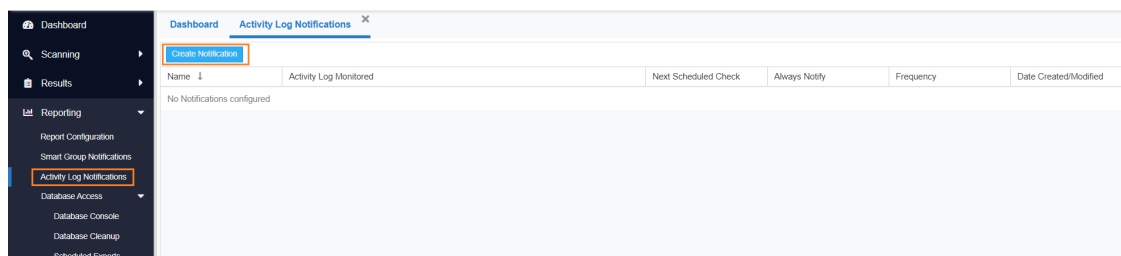
## Creating Notifications for the Activity Log



### Task

#### To create Notifications:

1. Click **Create Notification**.



2. The **Configure New Log Notifications** dialog box opens.

3. Describe notification name, select the required events, and then select notification schedules.
4. These email notifications can be scheduled on an **Hourly**, **Daily**, **Weekly**, or **Monthly** basis. If you select **Daily**, or **Weekly**, or **Monthly** option, then you choose the time duration for the selected day.
5. Choose the recipients and then click **Save**.

## Database Access

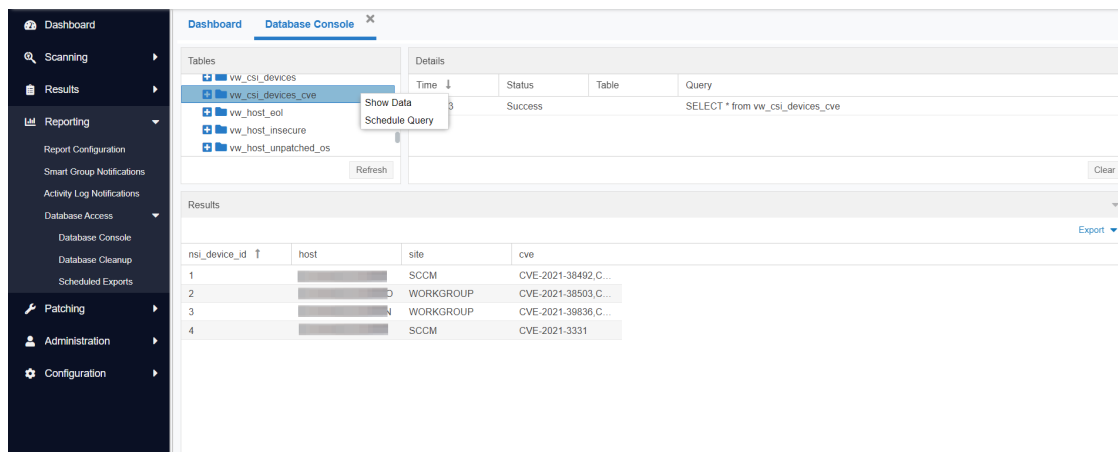
- To access Flexera's SQL database, see [Database Console](#).
- To delete hosts from your Software Vulnerability Manager account by configuring rules that check for certain criteria, see [Database Cleanup](#).

## Database Console

Use this page to access Flexera's SQL database. You can access the content of each table by selecting the table name in the Tables pane. Expand the table name to view the objects and data types within that table.

To create an SQL query, right-click a table and select Show Data to automatically create a `SELECT * FROM` table query from the specific table. You can also right-click a table and select Schedule Query to create [Scheduled Exports](#) for the table and save the output to a CSV file.

The Details and Results panes display the status of the query.



### Summary of the SQL Data in the Database Console Tables

The following table lists the SQL Data in the Database Console Tables:

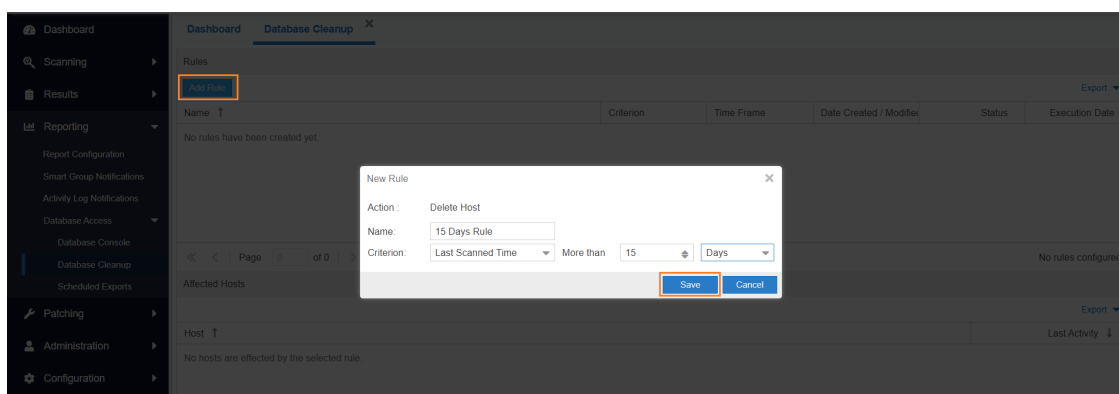
SQL Data	Description
<b>vw_csi_devices</b>	List of hosts with mac address & ip address
<b>vw_csi_devices_cve</b>	List of hosts affected by CVE
<b>vw_host_eol</b>	List hosts with End of Life software
<b>vw_host_unpatched_os</b>	List hosts with insecure operating system and operating system version
<b>vw_host_insecure</b>	List hosts with insecure software and software version

## Database Cleanup

Use this page to delete hosts from your Software Vulnerability Manager account by configuring rules that check for certain criteria.

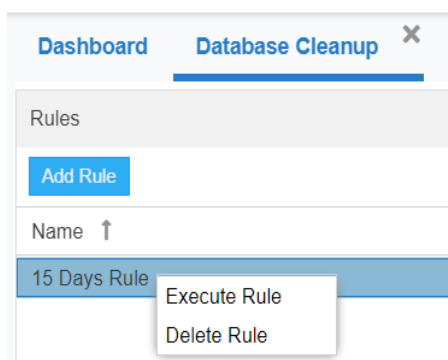
You can use this page, for example, to delete all the hosts that have not been scanned for more than 15 days.

Click **Add Rule**, enter the required information, and then click **Save**.



The rules can be based on Last Scan Time, Last Check-in Time or for Host that have been Never Scanned. Once a rule has been configured you can see which Affected Hosts meet the criteria defined in the rule and will be deleted from your Software Vulnerability Manager account.

Once you have checked the hosts to be deleted you can choose to run the rule. Right-click the rule name and select **Execute Rule**.



## Scheduled Exports

Use this page to view, edit or delete automated data extraction schedules.



**Important** • To schedule exports you must first download and install the Software Vulnerability Manager Daemon from <https://www.flexera.com/svm-download>.

Right-click a table in the Database Console and select Schedule Query. You can configure the file by hiding columns in the grids prior to export.

In the Export Schedule Setup screen, enter:

- The Name of the scheduled export.
- The Filename that you want to save the CSV file as.
- The Next Run date and time.

- The Frequency (Hourly, Daily, Weekly or Monthly) that the export will be performed or select the One-Time Export check box.

Export Schedule Setup

Action

Name:

Enter a name (or short description) for this scheduled export.

Table:

scheduled\_exports

Output

Filename:

Enter a filename ending with .csv extension

Schedule

These settings define the schedule at which the export will be performed

Next run:

2021-11-27

20:30

Frequency:

--

or

☐ One-Time Export

Save

Close

Right-click a Scheduled Export in the grid to edit or delete the export.

# 9

## Patching

After scanning your system and analyzing the appropriate vulnerabilities to patch, the next step is to patch your system. The following topics describe how to configure and deploy Software Vulnerability Manager's patching function.

- [Flexera Package System \(SPS\)](#)
- [Creating a Patch with the Flexera Software Package System \(SPS\)](#)
- [The SPS Package Creation Wizard](#)
- [Vendor Patch Module](#)
- [External Package Signing for Software Vulnerability Manager Client Toolkit](#)
- [Agent Deployment](#)
- [Add Proxy Settings](#)
- [WSUS/System Center](#)
- [Creating the WSUS-CSI GPO Manually](#)
- [Deploying the Update Package Using WSUS](#)
- [Deploying the Update Package Using System Center](#)
- [Patch Configuration](#)
- [Patch Template](#)
- [QuickPatch](#)
- [Patch Automation](#)
- [Intune Publishing](#)
- [Workspace ONE Publishing](#)



# Flexera Package System (SPS)

This section provides further information regarding:

- [Flexera SPS Page Features](#)
- [SPS Concepts and Terminology](#)

## Flexera SPS Page Features

The **Flexera Package System (SPS)** page displays a list of products for which Software Vulnerability Manager can automatically create an Update/Uninstall package. Right-click any of the listed products to view the available options.

Product	Vendor	Patched Vers	Architect	SAID	Criticality	Threat	Detected	Adviso	Insecure	End-O	Secure	Total	Hosts	Uninst
7-zip 19.x			Windows...	-		-	1 day, 9 ...	-	0	0	2	2	2	No
FileZilla		3.48.0	Windows...	-		-	2 days ago	-	0	0	1	1	1	Yes
Notepad		7.7	Windows...	SA91115		2	1 day, 9 ...	18th Sep...	1	0	1	2	2	No
PuTTY 0.x		0.74	Windows...	-		-	2 days ago	-	0	0	2	2	2	No
RealTer...			Windows...	-		-	2 days ago	-	0	0	1	1	1	No
Ultimate ...			Windows...	-		-	2 days ago	-	0	0	2	2	2	No
WinDirSt...			Windows...	-		-	1 day, 9 ...	-	0	0	2	2	2	No
WinSCP...		5.17.10	Windows...	-		-	1 day, 9 ...	-	2	0	3	5	5	No
Adobe A...	Adobe	21.007.2...	Windows...	-		-	2 days ago	-	0	0	1	1	1	No
Amazon ...	Amazon...	11.0.13.8.1	Windows...	-		-	1 day, 9 ...	-	0	0	1	1	1	No
Amazon ...	Amazon...	8.312.07.1	Windows...	SA104802		23	2 days ago	20th Oct...	3	0	0	3	1	No
CPU-Z 1.x	CPUID		Windows...	-		-	1 day, 9 ...	-	0	0	1	1	1	No
eMule 0.x	eMule	0.47.2.66	Windows...	-		-	2 days ago	-	0	0	1	1	1	Yes
Google ...	Google	96.0.466...	Windows...	-		-	1 day, 9 ...	-	0	0	1	1	1	No
Google ...	Google	7.3.3	Windows...	-		-	2 days ago	-	0	0	1	1	1	No
Google ...	Google	Product ...	Windows...	-		-	2 days ago	-	0	2	0	2	1	No
Microsoft...	Microsoft	96.0.105...	Windows...	SA105276		8	1 day, 9 ...	22nd No...	2	0	3	5	3	No
Microsoft...	Microsoft		Windows...	-		-	1 day, 9 ...	-	0	0	3	3	3	No
Microsoft...	Microsoft	1.1.1870...	Windows...	-		-	2 days ago	-	0	0	4	4	2	No
Microsoft...	Microsoft		Windows...	-		-	1 day, 9 ...	-	0	0	3	3	3	No

The **Flexera Package System (SPS)** features include:

- [Product Display Criteria for SPS](#)
- [Language Selection for SPS](#)
- [Patch Update Searches by Common Vulnerabilities and Exposures \(CVE\)](#)
- [Advisory Published Date](#)



**Note** • Flexera SPS page now available in non-IE browser also. In order to use complete feature of patching, need to install [Software Vulnerability Manager Plugin](#).

## Product Display Criteria for SPS

Click Configure View to select the criteria that will be used to display the products in this view.

Configure View

✕

You can customize the view of the products displayed using the following configurable options:

☒ Group products where patched version and architecture are identical
 ☒ Display only End-of-Life or Insecure products
 ☒ Display only products for which silent update packages can be created automatically
 ☐ Hide Microsoft products
 ☐ Highlight products for which update packages have been created

**Note:** The Software Vulnerability Manager should not be used for creating patches for Microsoft products. The updates should come from Microsoft.

Apply

Cancel

When the Group products where patched version and architecture are identical check box is selected, the SPS page rows will be grouped by the product, architecture, and the patch required to update them to a secure version.

If a row represents two or more product versions that require the same update, then the Product column will not show the product version. For example, if Firefox 32.x and Firefox 37.x both require updating to patched version 40.x, then the Product column will display “Firefox” only.

This means that if, for example, four products previously required the same update, rather than listing them four times they will be listed once. This allows you to create fewer packages to target the same number of installations.

Dashboard

Scanning

Results

Reporting

Patching

Flexera Package System

Patch Template

Vendor Patch Module

Patch Deployment Status

Administration

Configuration

Dashboard

Flexera Package System (SPS)

Search Type

Product

Search text...

Search

View from the context of Smart Group:

All Products

Configure View

Export

Product	Vendor	Patched Ver	Architect...	SAID	Criticality	Threat...	Detected	Adviso...	Insecure	End-O...	Secure	Total	Hosts	Uninst...	
7-zip 19.x			Windows...				1 day, 9...		0	0	2	2	2	No	
FileZilla...		3.48.0	Windows...				2 days ago		0	0	1	1	1	Yes	
Notepad...		7.7	Windows...	SA91115			2	1 day, 9...	18th Sep...	1	0	1	2	2	No
PutTTY 0.x		0.74	Windows...					2 days ago		0	0	2	2	2	No
RealTer...			Windows...					2 days ago		0	0	1	1	1	No
Ultimate...			Windows...					2 days ago		0	0	2	2	2	No
WinDirSt...			Windows...					1 day, 9...		0	0	2	2	2	No
WinSCP...		5.17.10	Windows...					1 day, 9...		2	0	3	5	5	No
Adobe A...	Adobe	21.007.2...	Windows...					2 days ago		0	0	1	1	1	No
Amazon...	Amazon...	11.0.13.8.1	Windows...					1 day, 9...		0	0	1	1	1	No
Amazon...	Amazon...	8.312.07.1	Windows...	SA104602			23	2 days ago	20th Oct...	3	0	0	3	1	No
CPU-Z 1.x			CPUID					1 day, 9...		0	0	1	1	1	No
eMule 0.x	eMule	0.47.2.66	Windows...					2 days ago		0	0	1	1	1	Yes
Google...	Google	96.0.466...	Windows...					1 day, 9...		0	0	1	1	1	No
Google...	Google	7.3.3	Windows...					2 days ago		0	0	1	1	1	No
Google...	Google	Product...	Windows...					2 days ago		0	2	0	2	1	No
Microsof...	Microsoft	96.0.105...	Windows...	SA105276			8	1 day, 9...	22nd No...	2	0	3	5	3	No
Microsof...	Microsoft		Windows...					1 day, 9...		0	0	3	3	3	No
Microsof...	Microsoft	1.1.1870...	Windows...					2 days ago		0	0	4	4	2	No
Microsof...	Microsoft		Windows...					1 day, 9...		0	0	3	3	3	No

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Page 1

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of 2

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Displaying Products 1 - 30 of 47



**Note** • An SPS package created when the Group products where patched version and architecture are identical check box is selected (grouped mode) can cover multiple product rows that are displayed when the check box is not selected (ungrouped mode). Consequently this can lead to a discrepancy when determining whether an update for the product already exists if you are switching between the grouped and ungrouped modes. For example, if you create an update for a product in grouped mode, the update may not be accurately detected when using the ungrouped mode. For this reason it is recommended to only use the grouped mode when creating updates.

## Language Selection for SPS

You can target specific languages and approve packages before they are published. The package configuration, based on the product family, is retained for future use.

## Patch Update Searches by Common Vulnerabilities and Exposures (CVE)

In the **Flexera Package System (SPS) Search Type** field, you can search patch updates by CVE, which are referenced in Secunia Advisories. The CVE results help identify affected hosts, advisories, and patches across entire organizations.

Product	Vendor	Patched Version	Architecture	SAID	Criticality	Threat	Detected	Advis...	Insec...	End...	Secure	Total	Hosts	Unin...
7-zip 19.x			Windows32-bit	-			1 day, 9 h...	-	0	0	1	1	1	No

## Advisory Published Date

The **Advisory Published** date is listed in the **Flexera Package System (SPS)** grouped and ungrouped views. This date provides a quick reference for the latest patching information.



**Note** • In the Flexera Package System (SPS) ungrouped view which lists each product version separately, there will be no Secunia Advisory IDs (SAID) listed for End-of-Life (EOL) products. Therefore, the Advisory Published date will be blank for EOL products.

Product	Vendor	Patched Version	Architecture	SAID	Criticality	Threat Score	Detected	Advisory P...	Insecure	End-Of-Life	Secure	Total	Hosts	Uninstallable
7-zip 16.x		16.x	Windows32-bit	-			5 days ago	-	0	1	0	1	1	No
Product: Adobe Acrobat Reader DC 21.x (2 Items)														
Adobe Acrobat...	Adobe	21.007.2009...	Windows32-bit	SA103765		80	5 days ago	12th Oct. 2021	2	0	0	2	2	No
Adobe Acrobat...	Adobe	2021.007.20...	Windows32-bit	SA104171		8	1 month ago	14th Sep. 2021	1	0	0	1	1	No
Product: Amazon Corretto 8.x (3 Items)														
Amazon Corr...	Amazon.com	8.312.07.1	Windows64-bit	SA104602		23	2 days ago	20th Oct. 2021	5	0	0	5	2	No
Amazon Corr...	Amazon.com	8.312.07.1	Windows32-bit	SA104602		23	2 days ago	20th Oct. 2021	5	0	0	5	2	No
Amazon Corr...	Amazon.com	8.302.08.1	Windows64-bit	SA103200		6	1 month ago	21st Jul. 2021	3	0	0	3	1	No
Product: Apple iTunes 12.x (1 Item)														
Apple iTunes...	Apple	12.12	Windows64-bit	SA104253		6	9 days ago	21st Sep. 2021	1	0	0	1	1	No
Product: FileZilla FTP Client 3.x (1 Item)														
FileZilla FTP...		3.48.0	Windows32-bit	SA54916			2 months ago	29th Apr. 2020	1	0	0	1	1	Yes
Product: Google Chrome 87.x (1 Item)														
Google Chro...	Google	96.x	Windows64-bit	-			5 days ago	-	0	1	0	1	1	No
Product: Google Chrome 91.x (2 Items)														
Google Chro...	Google	96.x	Windows64-bit	-			5 days ago	-	0	1	0	1	1	No
Google Chro...	Google	91.0.4472.114	Windows32-bit	SA102473		87	2 months ago	17th Jun. 2021	1	0	0	1	1	No
Product: Google Chrome 95.x (1 Item)														
Google Chro...	Google	96.x	Windows32-bit	-			2 days ago	-	0	1	0	1	1	No
Product: IrfanView 4.x (1 Item)														
IrfanView 4.x	IrfanView	4.37	Windows32-bit	SA54959			2 months ago	17th Dec. 2013	1	0	0	1	1	Yes
Product: Mozilla Firefox 53.x (1 Item)														
Mozilla Firefo...	Mozilla Foun...	94.x / 91.x ESR	Windows32-bit	-			9 days ago	-	0	1	0	1	1	Yes
Product: Mozilla Firefox 66.x (1 Item)														

Figure 9-1: Flexera Package System (SPS) ungrouped view

Product	Vendor	Patched Ver	Archite...	SAID	Criticality	Thre...	Date...	Advisory Published	Insec...	End-...	Secure	Total	Hosts	Unins...
7-zip		18.x	Windo...	SA82839		2	8 mont...	1st May, 2018	0	4	0	4	4	No
7-zip 9.x		18.x	Windo...	SA82839		2	16 mon...	1st May, 2018	0	1	0	1	1	No
FileZilla FTP ...		3.48.0	Windo...	SA94916		-	2 mont...	29th Apr, 2020	1	0	0	1	1	Yes
FileZilla FTP ...		3.48.0	Windo...	SA94916		-	2 mont...	29th Apr, 2020	2	0	0	2	2	Yes
Notepad++		7.7	Windo...	SA91115		2	2 mont...	18th Sep, 2019	2	1	0	3	3	No
Notepad++ 7.x		7.7	Windo...	SA91115		2	9 mont...	18th Sep, 2019	6	0	0	6	6	No
TortoiseSVN 1.x		1.12.2	Windo...	SA90538		-	14 mon...	14th Aug, 2019	4	0	0	4	2	No
WinSCP 5.x		5.17.10	Windo...	SA103		3	8 mont...	10th Aug, 2021	23	0	0	23	22	No
Adobe Acrobat	Adobe	17.011...	Windo...	SA103		80	2 days	12th Oct, 2021	1	0	0	1	1	No
Adobe Acrobat	Adobe	21.x (C...	Windo...	SA103		80	2 mont...	12th Oct, 2021	11	10	0	21	21	No
Adobe Brackets	Adobe	1.14.1	Windo...	SA92461		3	2 mont...	10th Dec, 2019	2	0	0	2	2	No
Amazon Cor...	Amazo...	8.312.0...	Windo...	SA104		23	2 mont...	20th Oct, 2021	22	0	0	22	8	No
Amazon Cor...	Amazo...	8.312.0...	Windo...	SA104		23	1 mont...	20th Oct, 2021	7	0	0	7	3	No
Apple iTunes ...	Apple	12.12	Windo...	SA104		6	2 mont...	21st Sep, 2021	3	0	0	3	3	No
Apple iTunes ...	Apple	12.12	Windo...	SA104		6	16 mon...	21st Sep, 2021	1	0	0	1	1	No
Google Chrome	Google	96.x	Windo...	SA105		8	4 mont...	15th Nov, 2021	1	7	0	8	8	No
Google Chrome	Google	96.x	Windo...	SA105		8	3 days	15th Nov, 2021	4	52	0	56	54	No
Mozilla Firefox	Mozilla	94.x / 9...	Windo...	SA104		23	2 days	2nd Nov, 2021	2	169	0	171	38	Yes
Mozilla Firefox	Mozilla	94.x / 9...	Windo...	SA104		23	2 days	2nd Nov, 2021	6	165	0	171	63	Yes
Mozilla Thund...	Mozilla	91.x	Windo...	SA104		23	2 days	3rd Nov, 2021	8	14	0	22	21	No

Figure 9-2: Flexera Package System (SPS) grouped view

## SPS Concepts and Terminology

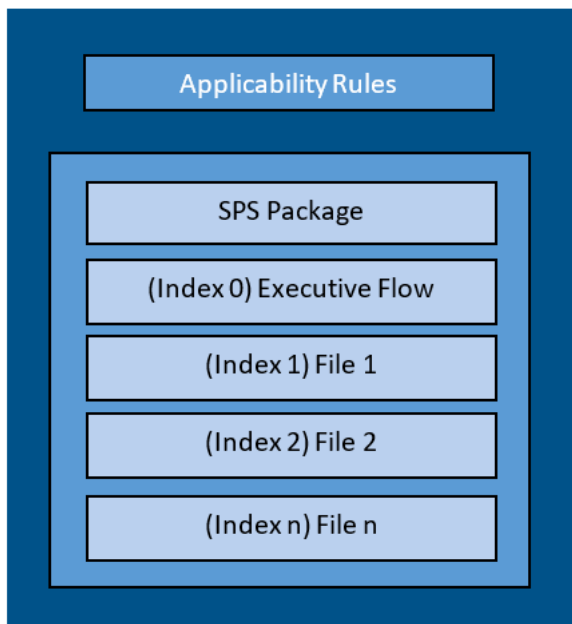
Software Vulnerability Manager users should become familiar with the concepts and terminology described in this section.

- Components of an SPS Package
- Applicability Rules
- SPS Package
- Execution Flow Script
- Files

## Components of an SPS Package

The package consists of two parts; applicability rules and SPS package. The applicability rules are used by WSUS to only execute the package on computers that are applicable for the selected package.

The SPS package consists of the payload that is then executed on the computer.



The following sections explain in greater detail all the components that make a SPS package.

## Applicability Rules

The applicability rules are rules used to decide whether or not a package should be offered to a client. These rules are as follows:

**IsInstallableApplicabilityRule** – Obtains the rules for determining whether or not this item is installable on a given computer. It generally consists of paths and version information of relevant files.

**IsInstalledApplicabilityRule** – Obtains the rules for determining whether or not this item is already installed on a given computer. It generally consists of keys and value information of relevant registry keys.

**IsSupersededApplicabilityRule** – Obtains or sets the rules for determining whether or not this item is superseded by another update on a given computer. It generally consists of paths and version information of relevant files.

## SPS Package

The SPS package must always consist of at least one file that is placed at index “0”, this is the execution flow script, and any additional files will be numbered accordingly in ascending order. The execution flow script is either JScript (JavaScript), VBScript or Powershell script; by default a JavaScript example is provided in the SPS Package Creation Wizard.

The script will be automatically extracted from the SPS package and executed. Based on the execution flow more files can then be extracted and executed from the SPS package, referenced by their index order.



**Important** • When using Powershell Scripting as the execution controlling script of the package, you must ensure that Microsoft Visual C++ 2012 Redistributable (x86) is installed on the target hosts you are deploying the update package to.

## Execution Flow Script

This execution flow script is always executed. This is the file with index 0, and as such it will always be the first to run.

In the execution flow script you can define any other files to be extracted and executed. The default execution flow template that is provided in the SPS Package Creation Wizard will extract the first file supplied in the package with the specified silent parameters (usually this is the patch file provided by the vendor). Any other files added to the package will NOT be extracted or executed when using the example script.

If you create your own execution flow, no user interaction is available. To make your execution flow totally unattended, use log files accordingly for easy troubleshooting.

## Files

The SPS package supports additional files besides the execution flow script. The added files will have array indices from 1 to n where the first file will have index 1, and the additional files are numbered in ascending order.

# Creating a Patch with the Flexera Software Package System (SPS)

The Flexera Software Package System (SPS) page displays a list of products that you can create updates for.

Click Configure View to customize the list and limit the types of products shown, as well as highlight products for which packages have or have not been created.

If highlighted, products for which SPS packages exist will be shown in green.

A product will be displayed in blue if the vendor provides unattended/silent installation parameters for its patches. Any product listed in blue is available to have an update created in a simple 3 step process.

Some products are presented in gray because the vendor of the product does not provide silent installation parameters. If you choose to patch one these products, you must provide (import) the .MSI/.MSP/.EXE file together with the parameters for the unattended installation. Software Vulnerability Manager will then repackage and publish the update through the standard workflow. Packages cannot be automatically created by Software Vulnerability Manager for these products.

If you wish to create a new custom package that does not necessarily patch an existing product, for example to deploy new software, you can click New Custom Package. In this case you should provide the files/installer that will be executed on the target client together with the execution flow script.

With Software Vulnerability Manager you are able to create three different kinds of packages. Right-click a product and select one of the available options:

- [Create an Update Package](#)
- [Create an Uninstall Package](#)
- [Create a Custom Package](#)

For the Update and Uninstall packages a default execution flow script is provided in the SPS Package Creation Wizard ([Step 2 of 4: Package Contents](#)), which will fulfill most of the common needs.

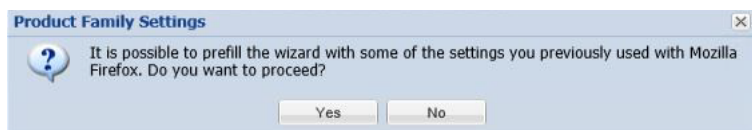
The execution flow script for an Update package can also be customized for additional functionality. You can also configure your patching package SPS Installer Parameters using dynamic check box options (where applicable) based on product functionality, including:

- Remove End User License Agreement
- Disable Automatic Updates
- Silent Install
- Update to lowest secure version
- No reboot necessary
- Cumulative updates in one package
- Set Security Level
- Remove system tray icon
- Restrict Java Applications
- Uninstall Prior to Installing
- Prevent Installation of Certain Components
- Prevent Collection of Anonymous Usage Statistics
- Remove Desktop Shortcut

## Create an Update Package

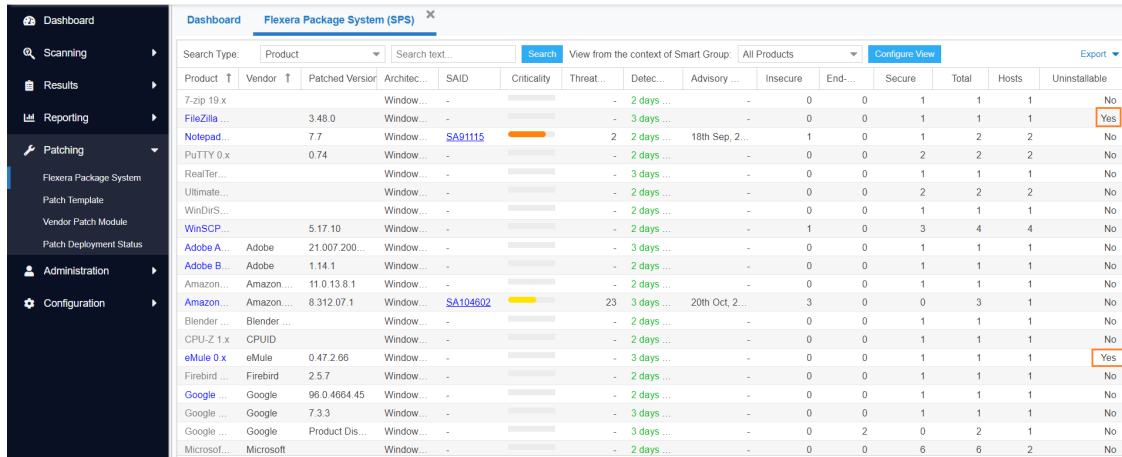
A Product will be displayed in blue if the vendor provides unattended/silent installation parameters for its patches. Any Product listed in blue is available to have an update created in a 3 step process. Right-click or double-click one of these Products and select Create Update Package to start the SPS Package Creation Wizard.

Software Vulnerability Manager retains Product Family Settings that you previously used. Click Yes to prefill the SPS Package Creation Wizard with the available settings.



## Create an Uninstall Package

Any Products that are listed as Yes in the Uninstallable column are available to have an uninstall package created in a 3 step process exactly as the update packages in blue.



Product	Vendor	Patched Version	Architec...	SAID	Criticality	Threat...	Detect...	Advisory ...	Insecure	End...	Secure	Total	Hosts	Uninstallable
7-zip 19.x			Window...	-		-	2 days ...	-	0	0	1	1	1	No
FileZilla ...		3.48.0	Window...	-		-	3 days ...	-	0	0	1	1	1	Yes
Notepad...		7.7	Window...	SA81115		2	2 days ...	18th Sep, 2...	1	0	1	2	2	No
PuTTY 0.x		0.74	Window...	-		-	2 days ...	-	0	0	2	2	2	No
RealTer...			Window...	-		-	3 days ...	-	0	0	1	1	1	No
Ultimate...			Window...	-		-	2 days ...	-	0	0	2	2	2	No
WinDirS...			Window...	-		-	2 days ...	-	0	0	1	1	1	No
WinSCP...		5.17.10	Window...	-		-	2 days ...	-	1	0	3	4	4	No
Adobe A...	Adobe	21.007.200...	Window...	-		-	3 days ...	-	0	0	1	1	1	No
Adobe B...	Adobe	1.14.1	Window...	-		-	2 days ...	-	0	0	1	1	1	No
Amazon ...	Amazon...	11.0.13.8.1	Window...	-		-	2 days ...	-	0	0	1	1	1	No
Amazon ...	Amazon...	8.312.07.1	Window...	SA104602		23	3 days ...	20th Oct, 2...	3	0	0	3	1	No
Blender ...	Blender ...		Window...	-		-	2 days ...	-	0	0	1	1	1	No
CPU-Z 1.x	CPUID		Window...	-		-	2 days ...	-	0	0	1	1	1	No
eMule 0.x	eMule	0.47.2.66	Window...	-		-	3 days ...	-	0	0	1	1	1	Yes
Firebird ...	Firebird	2.5.7	Window...	-		-	2 days ...	-	0	0	1	1	1	No
Google ...	Google	95.0.4664.45	Window...	-		-	2 days ...	-	0	0	1	1	1	No
Google ...	Google	7.3.3	Window...	-		-	3 days ...	-	0	0	1	1	1	No
Google ...	Google	Product Dis...	Window...	-		-	3 days ...	-	0	2	0	2	1	No
Microsoft...	Microsoft		Window...	-		-	2 days ...	-	0	0	6	6	2	No

For Products listed as No in the Uninstallable column you must customize the execution flow script to successfully uninstall the product. This can be done by starting the SPS Package Creation Wizard and selecting the Edit Package Content check box in Step 1.

If you have an SPS XML template you can import it by clicking Import Package in the first step of the wizard. Once this is completed, all the fields in the wizard will be automatically populated, including the execution flow script.

Special attention should be given to the files mentioned in the execution flow script. These files can be files originally provided by the SPS template creator or they can be dynamically downloaded.



**Important** • You should only import SPS packages if you trust the author of the package and the source from where you downloaded/obtained the package.

## Create a Custom Package

Software Vulnerability Manager allows creating custom packages that can be deployed through WSUS/System Center. By creating a custom package you can do a wide range of actions; everything from updating and uninstalling third-party applications to handling complex execution flows with multiple files.

The creation of a custom package can be done in two different ways. Either:

- Right-click a product and choose Create Custom Package. By doing this the product applicability rules will be included in the package; this will mean that the Custom Package will only be applicable for computers with the selected product installed.

OR

- Click New Custom Package to start the SPS Package Creation Wizard. In this case no applicability rules will limit the installation base.

Independently of the chosen approach, in both cases the SPS Package Creation Wizard will be initiated.

## The SPS Package Creation Wizard

The following steps explain how to create the SPS Package:



- [Step 1 of 4: Package Configuration](#)
- [Step 2 of 4: Package Contents](#)
- [Step 3 of 4: Applicability Criteria - Paths](#)
- [Step 4 of 4: Applicability Criteria - Rules](#)

## Step 1 of 4: Package Configuration

In Step 1, no action is required if the selected product was in blue. You should only check Edit Package Content (Optional) if the product was in gray or there is a need to customize the update patch by selecting a different file(s) and/or defining a different execution flow script.

### Step 1 of 4: Package Configuration

Use this form to set the name and description of the SPS package, or edit the properties of an existing one. In the following steps you will configure the package contents and parameters before creating and publishing the package, or exporting it as an XML formatted file.

#### Import XML (Optional)

You can start by importing an existing SPS Package File. This will populate all of the wizard data fields with the package data, which you can then view and/or edit.

**NOTE:** You should only import packages if you trust the author of the package and the source from where you downloaded / retrieved the SPS package.

#### Package Name

The package will be created with the following name. Choose a new name if desired.

Name:

#### Description (Optional)

Here you can give a description of the package. For example, what it does, the contents, usage, etc.

Description:

#### Reference Id (Optional)

Here you can assign an Id to this package if desired.

Reference Id:

#### SPS Installer Parameters (Optional)

Here you can configure optional parameters you want to pass to the installer. This set of options is unique to this product. Some parameters have warning message associated that should be read and understood before moving forward

Configure Package ☒ Default (?)

Behavior:

☐ Disable checking for running Chrome processes (?)

☐ Kill any running Chrome processes (?)

Select Installer: ☒ Install Enterprise version

☐ Install Stable version

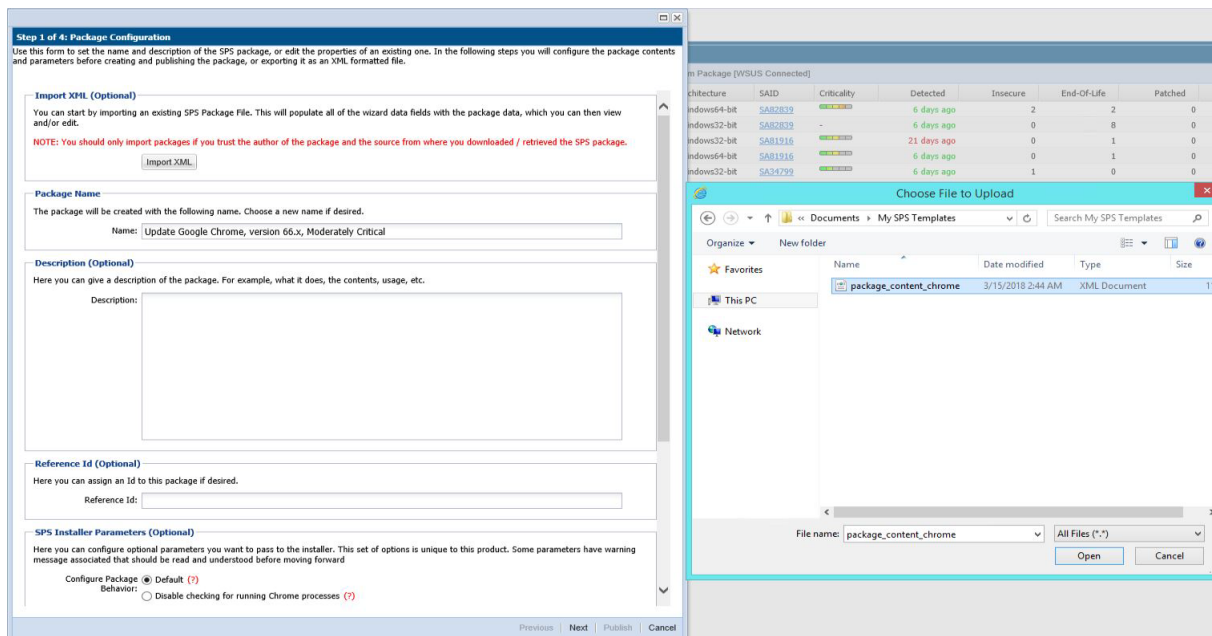
#### Edit Package Content (Optional)

If you choose to edit the package contents, in the next Step of the wizard you will have the option to view/edit the package contents. If not, you will be directed immediately to Step 3.

☐ Edit Package Content

#### Vendor & Product Naming

The Import Package feature allows you to import a SPS template in XML format that will automatically populate all the fields of the SPS Package Creation Wizard. This feature will be especially relevant when creating custom updates or when creating update packages for the products in gray.



In Step 4 of the wizard you will also have the option to export the XML template for the package being created.

After clicking Next, and if Edit Package Content (Optional) was not selected, you will go directly to [Step 3 of 4: Applicability Criteria - Paths](#).

## Step 2 of 4: Package Contents

Step 2 becomes available when Edit Package Content is selected in Step 1. The first section of Step 2 is the Execution Script where you select JScript (Javascript), VBScript or Powershell Script and then review or create a customized execution flow.

You are also able to change the files that are included in the SPS package, which can either be local files or links to be dynamically downloaded upon publishing of the package.

To test a newly created execution flow together with the added files click Create SPS File. A SPS.exe file is created that can be executed locally prior to being published into the WSUS server.

This SPS.exe file will include the execution flow script and the files to be included, but not the applicability rules.

### Step 2 of 4: Package Contents

Here you configure the package contents, including the execution script included, and the files included.

#### Execution Script

View/Edit the execution flow and script type for this SPS package.

Script Type: JavaScript (Javascript)

Execution Flow:

```

var Title = "Update Google Chrome, version 66.x, Moderately Critical";
var GUID = "1535ed8d-b052-45ab-8665-9544a8ee7e7d";
var silentParams = "/S";
var optionalParams = " /business";

// The following four variables have been embedded by the CSI at the
// start of this script
// var GUID = "";
// var Title = "";
// var silentParams = "";
// var optionalParams = "";

var ret = 1;
function main() {
    if ( !GUID ) {
        server.logMessage( "No GUID supplied for package " + Title );
        return 1;
    }
}

```

#### Files To Include

Configure the files to include in this package. The grid below shows the files that are currently scheduled to be included, and if they will be downloaded dynamically (i.e., in the case of URLs) or if they are local files. You can add additional files via the 'Add File' button, as well as choose from additional language packages available via the 'Show Localised Files' button. To remove a file, right-click and select 'Remove'.

File(s) to include in the package	Status
<a href="http://dl.secunia.com/SPS/GoogleChrome_66.0.3359.139_64-bit_SPS.exe">http://dl.secunia.com/SPS/GoogleChrome_66.0.3359.139_64-bit_SPS.exe</a>	To Be Dynamically Downloaded

Add Local File
Add Download Link
Add Localisation (Language) File

#### Create SPS File

You also have the option of creating an SPS File from this package, should you wish to.

Create SPS File

Previous
Next
Publish
Cancel

## Step 3 of 4: Applicability Criteria - Paths

In Step 3 you should select the paths/locations to which this package should be applied. These are usually populated by Software Vulnerability Manager based on the scans previously conducted.

Please be advised to only choose paths that are valid to avoid any update loops. You can also use paths with CSIDL and KNOWNFOLDERID if you select the Show Advanced Options check box. These variables should be used with their decimal value.

**Step 3 of 4: Applicability Criteria - Paths**

Here you can define the path-based applicability rules for this package. Below you will find any relevant paths already found or configured for the package. You can deselect paths in the grid or add paths as needed via the "Add Path" button. Check the "Advanced Options" box to enable additional options in the "Add Path" dialog and to show advanced options in the grid.

☐ Show Advanced Options

**Always Install Option**

The purpose of this option is to allow installations of new software. For custom packages which are not updates to existing installations, you can bypass the "isInstallable" WSUS rule which will ignore all system paths when deciding if this package can be applied. Note - this will not bypass the rules for checking if something is already installed, or is superseded by a more recent version.

☐ Mark Package as "Always Installable"

**Minimum Version Option**

The purpose of this option is to allow for updating of older products. Normally one updates a product to its secure version within the same major version. You can alter this behaviour by specifying a custom minimum version. Note: the version you enter must also be supported by the installer itself - you cannot enter arbitrary values here.

Minimum Version:

<input type="checkbox"/> Path	Information
<input checked="" type="checkbox"/> C:\Program Files (x86)\Google\Chrome\Application\chrome.exe	1

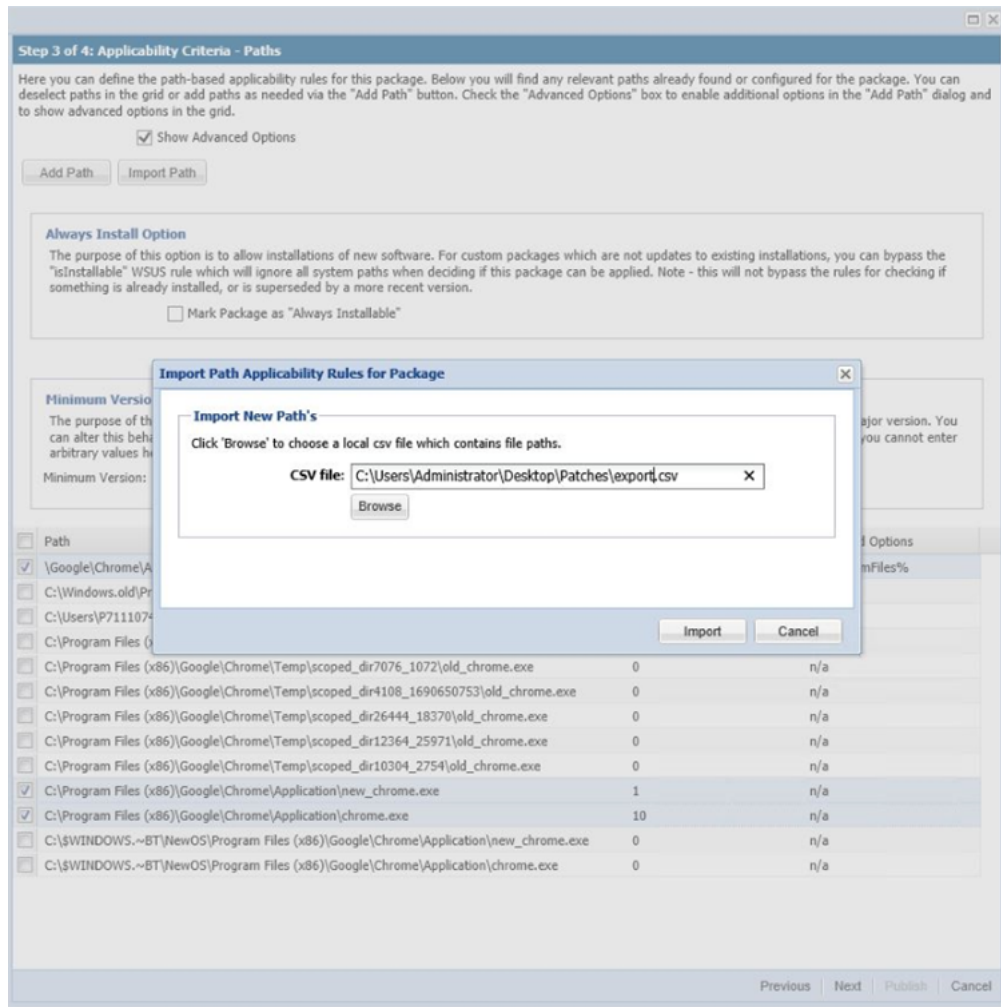
For packages that should not have any paths for applicability, select the Mark Package as "Always Installable" check box to ignore all paths. Paths for App-V and Mac OS X are filtered out since they are not supported for patching.

Use the Minimum Version Option to update older products. Normally, a product is updated to its secure version within the same major version. You can alter this behavior by specifying a custom minimum version. Note: the version you enter must also be supported by the installer itself - you cannot enter arbitrary values here.

## Importing Bulk File Paths in the SPS Package Creation Wizard

To help with situations where you wish to include specific file paths for scanning software, you can now import multiple file paths by providing a CSV file during Step 3 of the patch/template creation process.

On the **Step 3 of 4: Applicability Criteria - Paths** panel, click **Add Path** to open the **Import Path Applicability Rules for Package** dialog box, and select a local CSV file which contains file paths.



**Figure 10:** Import Path Applicability Rules for Package Dialog Box

This enables you to target specific file paths or to include file paths discovered in other partitions in order to create a single patch for deployment that covers all desired file paths.

### CSV File Format

When creating a CSV file for import, file paths entered in the following formats are acceptable:

```
C:\Users\Administrator\AppData\Local\Temp\Acme\acinstall\tools\acmeinstall\tools\7z.exe
C:\Program Files\Acme\tools\7z.exe
%ProgramFiles%\Acme\tools\7z.exe
```



**Note** • The CSV file does not need to have comma-separated values, but just a list. You don't have to use quotes when there are spaces in a file path. The CSV file can essentially be a text list with just one column. As a single column list of values, simply provide one file path per line (no header row or additional columns should be included).

## Step 4 of 4: Applicability Criteria - Rules

In Step 4 you should specify if you want to limit the package to 32-bit or 64-bit systems or computers with specific operating system languages. The patch file to be deployed will be automatically downloaded in the background by the Software Vulnerability Manager console. Once this is completed the Software Vulnerability Manager console will repack and publish the update package into the WSUS/System Center. To export a package select File System (Export) and click **Publish**.

**Step 4 of 4: Applicability Criteria - Rules**

Here you configure the applicability rules for the package.

Select Languages: Language

- Arabic
- Chinese (Hong Kong SAR)
- Chinese - (Simplified)
- Chinese - (Traditional)
- Czech
- Danish

**Export Patch Script**

Before publishing XML patch script to your file system, you have the option to configure XML file. Note: As you might wish to share this package, for example via the community forum, you can choose to not include the package files as binary and the applicability paths from Step 3, as your paths may contain private user data.

☐ Do not include Step 3 Applicability Paths in XML File.

☐ Do not include package file(s) as binary in XML File.

**Patch Template (Optional)**

Save as template: Enter Template Name...

**Publish Options**

Select option for publishing Flexera package

Publish package using:

- ☒ WSUS (via ActiveX)
- ☐ Schedule package to Patch Publisher
- ☐ Altiris
- ☐ Export Patch Script
- ☐ Cabinet File (Export)
- ☐ Save Template

Previous | Next | Publish | Cancel

To publish a package to the Patch Publisher, select the **Publish Options** to **Schedule a package to Patch Publisher**, and then select the required connection from the **Patch Publisher Connections (Required)** drop down.



**Note** • Patch Publisher Connections are available only when you install the Patch Publisher.

**Publish Options**

Select option for publishing Flexera package

Publish package using:

- ☐ WSUS (via ActiveX)
- ☒ Schedule package to Patch Publisher
- ☐ Altiris
- ☐ Export Patch Script
- ☐ Save Template

---

**Patch Publisher Connections (Required)**

Select connection: intune ( Intune ) ▼

If a reboot is required after the package has been installed this can also be configured in the second part of this step as well as checking if Java is running.

To configure your package to only be applicable for certain languages of the operating system, select Only make package applicable to computers with one of the selected languages and select the relevant language.

In this step you are also able to export the package that you have already configured to be used for future reference. You have the option to include or exclude Step 3 applicability paths and the installer as binary.

The two options (Do not include Step 3 Applicability Paths in XML File and Do not include the package file(s) as binary in XML File) are taken into consideration only when exporting the package to the File System (Export), otherwise the selection will be disregarded.

## Vendor Patch Module

Vendor Patch Module represents the largest set of patch data on the market today. It is designed to integrate several hundred out of the box patches for prioritization and publishing within SVM. Additionally, it exposes details which helps you to be aware what patches exist, and to provide as much detail as possible to make bringing your own patch to SVM easier. These additional entries are typically missing something like the actual setup file (because the vendor does not make it publicly available) or because we don't have default applicability criteria (but can leverage assessment results for your environment).



**Tip** • To know more about the Vendor Patch Module, [click here](#).

This section provides further information regarding:

- [Vendor Patch Module Page Features](#)
- [Creating a Patch with the Vendor Patch Module](#)
- [Package Creation Wizard in Vendor Patch Module](#)
- [Automating Patch Deployment](#)



**Important** • Vendor Patch Module is an optional feature and must be purchased separately:

- For pricing and availability, please contact your sales representative or contact us online at: <https://www.flexera.com/about-us/contact-us.html>
- If the feature is not purchased, you can view the list of available patches but cannot use them.



## Vendor Patch Module Page Features

The **Vendor Patch Module** page displays a list of products for which Software Vulnerability Manager can automatically create an Update/Uninstall package. Right-click any of the listed products to view the available options.

Product	Vendor	Patch	Deplo	SAID	Critic	Thr	Advis	Archt	Ins	En	Se	Total	Hosts	Upda	Down	File	Subs	Subs
NET	Micro	2.2.8...	Yes	-		-	-	Wind						11th	Down	23.39	No	-
NET	Micro	2.2.8...	Yes	-		-	-	Wind						11th	Down	21.04	No	-
NET	Micro	3.1.2...	Yes	-		-	-	Wind						23rd	Down	24.92	No	-
NET	Micro	3.1.2...	Yes	-		-	-	Wind						23rd	Down	22.32	No	-
NET	Micro	3.1.4...	Yes	-		-	-	Wind						23rd	Down	126.9	No	-
NET	Micro	3.1.4...	Yes	-		-	-	Wind						23rd	Down	117.6	No	-
NET	Micro	3.1.1...	Yes	-		-	-	Wind						1st M.	Down	51.77	No	-
NET	Micro	3.1.1...	Yes	-		-	-	Wind						1st M.	Down	46.34	No	-
NET	Micro	5.0.1...	Yes	-		-	-	-						23rd	Down	23.28	No	-
NET	Micro	5.0.1...	Yes	-		-	-	Wind						23rd	Down	25.12	No	-
NET	Micro	5.0.1...	Yes	-		-	-	Wind						23rd	Down	22.58	No	-
NET	Micro	5.4.3...	Yes	-		-	-	-						23rd	Down	130.5	No	-
NET	Micro	5.4.3...	Yes	-		-	-	Wind						23rd	Down	146.1	No	-
NET	Micro	5.4.3...	Yes	-		-	-	Wind						23rd	Down	135.8	No	-
1Pas	Agile	7.9.8...	Yes	SA10		-	1st O	Wind						23rd	Down	11.33	Yes	29th
3DF	3Dfio	4.530...	Yes	-		-	-	Wind						15th	Down	185.9	No	-
3DF	3Dfio	4.530...	Yes	-		-	-	Wind						16th	Down	185.9	No	-
3DF	3Dfio	4.530...	Yes	-		-	-	Wind						19th	Down	185.9	No	-
4K Vi	Open	4.18...	Yes	-		-	-	Wind						23rd	Down	88.72	No	-
7-Zip	Igor P.	21.6.0.0	Yes	SA82		2	1st M	Wind						26th	Down	1.77	Yes	29th

The **Vendor Patch Module** features include:

- [Product Display Criteria for Vendor Patch Module](#)
- [Patch Update Searches by Common Vulnerabilities and Exposures](#)
- [Advisory Published Date in Vendor Patch Module](#)
- [Threat Score in Vendor Patch Module](#)

## Product Display Criteria for Vendor Patch Module

Click **Configure View** to define a criteria from either or both the **Show** drop down and the **Add more filters** check boxes. This criteria will be used to display the filtered products in this view.

Configure View

Show:

All available Vendor patches

Add more

Only those Detected in my environment

☐ Only those Not detected in my environment

☒ Deployment ready patches

☐ Only Mac patches

☐ Hide Microsoft products

Search...

Search

Available Languages

☐ Name

☐ African

☐ Brazilian

☐ Chinese (Simplified)

☐ Chinese (Traditional)

☐ Croatian

☐ Czech

Selected Languages

☐ Name

<< < | Page 1 of 4 | > >> ↺

Displaying Available Languages 1 - 9 of 31

Apply

Cancel

The following display criteria are available.

Table 9-1 • Product Display Criteria for Vendor Patch Module

Drop Down	Options
Show	<div>Select one of the following options:</div> <ul style="list-style-type: none"><li>● <b>All available Vendor patches</b>—Displays all the list of out of the box patches available in the module. (Default)</li><li>● <b>Only those Detected in my environment</b>—Displays a list of out of the box patches available for applications which are already installed in the user environment.</li><li>● <b>Only those Not detected in my environment</b>—Displays a list of out of the box patches available for other applications which are not deployed in the user environment.</li></ul>

**Table 9-1 • Product Display Criteria for Vendor Patch Module**

Drop Down	Options
<b>Add more filters</b>	<p>Select one or more following check boxes to add more criteria defined in the <b>Show</b> drop down:</p> <ul style="list-style-type: none"> <li>● <b>Download available</b>—Displays a list of out of the box patches available to download</li> <li>● <b>Deployment ready patches</b>—Displays a list of deployable out of the box patches which have no missing details. These patches are highlighted in <b>Blue</b> color in the products list and have a high rate of success in mass deployment.</li> <li>● <b>Only Mac patches</b>—Displays a list of out of the box patches for MAC OS, You can easily download them for deployment in your Mac management solution of choice.</li> <li>● <b>Hide Microsoft products</b>—Hides only a list of out of the box patches provided by the vendor Microsoft.</li> <li>● <b>Highlight products for which packages have been created</b>—Displays a list of products in <b>Green</b> color for which packages have been created successfully.</li> </ul>



**Note** • MSP packages are currently **Not deployment** ready, but deployment is possible depending on the environment that these packages are ready to be deployed as is.

## Select Package Language

You can target specific languages and approve packages before they are published. The **Configure View** settings in the Vendor Patch Module can be retained for future use.

By default, the following package language is selected:

- English
- English (UK)
- English (US)
- English GB
- English US
- Multi

You are also able to change the default selected language and select new package languages.

## Patch Update Searches by Common Vulnerabilities and Exposures

In the **Vendor Patch Module Search Type** field, you can search a patch updates by CVE, which are referenced in Secunia Advisories. The CVE results help identify affected hosts, advisories, and patches across the entire organizations when appropriate Smartgroup filters are chosen.

Dashboard

Scanning

Results

Reporting

Patching

Dashboard

Vendor Patch Module

Search type

CVE

Search text

Search

View from the context of Smart Group

Not Selected

Configure View

Export

Product	Vendor	Patch	Deplo	SAID	Critic	Thr	Advis	Archt	Ins	En	Se	Total	Hosts	Upda	Down	File	Subs	Subs
4K V...	Open...	4.18...	Yes	-		-	-	Wind...	0	0	10	10	23rd...	Down	88.72...	No	-	
7-Zip	Igor P...	21.6.0.0	Yes	-		-	-	Wind...	0	4	29	33	32	26th...	Down	1.77...	No	-
7-Zip	Igor P...	21.06...	Yes	-		-	-	Wind...	0	1	32	33	30	26th...	Down	1.37...	Yes	16th...
.NET	Micro...	5.4.3...	Yes	-		-	-	-	-	-	-	-	23rd...	Down	130.5...	No	-	

## Advisory Published Date in Vendor Patch Module

The **Advisory Published** date is listed in the **Vendor Patch Module** provides a quick reference for the latest patching information.

Product	Ven...	Pat...	Dep...	SAID	Critic...	Threat Score	Advisory Published	Arc...	In...	E...	S...	T...	H...	Upda...	Do...	Fl...	Sub...	Sub...
Fire...	Moz...	94...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	23r...	Do...	50...	No	-
Fire...	Moz...	94...	Yes	-		-	-	Win...	0	1	1	2	2	23r...	Do...	51...	No	-
Fire...	Moz...	94...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	23r...	Do...	50 MB	No	-
Fire...	Moz...	52...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	45...	No	-
Fire...	Moz...	52...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	43...	No	-
Fire...	Moz...	52...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	45...	No	-
Fire...	Moz...	52...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	43...	No	-
Fire...	Moz...	60...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	37...	No	-
Fire...	Moz...	60...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	34...	No	-
Fire...	Moz...	60...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	37...	No	-
Fire...	Moz...	60...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	34...	No	-
Fire...	Moz...	68...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	46...	No	-
Fire...	Moz...	68...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	45...	No	-
Fire...	Moz...	68...	Yes	-		-	-	Win...	0	1	1	2	2	30t...	Do...	46...	No	-
Fire...	Moz...	68...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	30t...	Do...	45...	No	-
Fire...	Moz...	78...	Yes	-		-	-	Win...	0	1	1	2	2	6th...	Do...	52...	No	-
Fire...	Moz...	78...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	6th...	Do...	51...	No	-
Fire...	Moz...	78...	Yes	-		-	-	Win...	0	1	1	2	2	6th...	Do...	51...	No	-
Fire...	Moz...	78...	Yes	SA...		23	2nd Nov, 2021 05:30	Win...	1	0	0	1	1	6th...	Do...	50...	No	-
Fire...	Moz...	91...	Yes	-		-	-	Win...	0	1	1	2	2	23r...	Do...	53...	No	-

Figure 9-1: Vendor Patch Module Advisory published date

## Threat Score in Vendor Patch Module

The **Threat Score** provides the Threat Score information for the out of the box patches listed in the **Vendor Patch Module**.



**Note** • Threat Score is available only for users with Threat Intelligence Module

Product	Ven	Pat	Dep	SAID	Crit	Threat Score	Advisory Published	Arc	In	E	S	T	H	Upd	Do	Fl	Sub	Sub
Fire	Moz	94	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	23r	Do	50	No	-
Fire	Moz	94	Yes	-		-	-	Win	0	1	1	2	2	23r	Do	51	No	-
Fire	Moz	94	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	23r	Do	50 MB	No	-
Fire	Moz	52	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	45	No	-
Fire	Moz	52	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	43	No	-
Fire	Moz	52	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	45	No	-
Fire	Moz	52	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	43	No	-
Fire	Moz	60	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	37	No	-
Fire	Moz	60	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	34	No	-
Fire	Moz	60	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	37	No	-
Fire	Moz	60	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	34	No	-
Fire	Moz	68	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	46	No	-
Fire	Moz	68	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	45	No	-
Fire	Moz	68	Yes	-		-	-	Win	0	1	1	2	2	30t	Do	46	No	-
Fire	Moz	68	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	30t	Do	45	No	-
Fire	Moz	78	Yes	-		-	-	Win	0	1	1	2	2	6th	Do	52	No	-
Fire	Moz	78	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	6th	Do	51	No	-
Fire	Moz	78	Yes	-		-	-	Win	0	1	1	2	2	6th	Do	51	No	-
Fire	Moz	78	Yes	SA		23	2nd Nov, 2021 05:30	Win	1	0	0	1	1	6th	Do	50	No	-
Fire	Moz	91	Yes	-		-	-	Win	0	1	1	2	2	23r	Do	53	No	-

Figure 9-2: Vendor Patch Module Threat Score

## Creating a Patch with the Vendor Patch Module

The Vendor Patch Module page displays a list of products that you can create updates for.

Click Configure View to customize the list and limit the types of products shown in the list as per your requirements.

A product will be displayed in blue if the vendor provides unattended/silent installation parameters for its patches. Any product listed in blue is available to have an update created in a simple 3 step process.

Some products are presented in gray because the vendor of the product does not provide setup files to deploy, Packages cannot be automatically created by Software Vulnerability Manager for these products.

With Vendor Patch Module you can update a package. Right-click a product you can see the following options:

- [Create an Update Package](#)
- [View Installations](#)
- [Patch Information](#)

To Update packages a default execution flow script is provided in the ([Step 2 of 4: Package Contents](#)), which will fulfill most of the common needs.



**Important** • The following color codes are used in the Vendor Patch Module products list:

- **Blue color patches** - Out of the box patches are ready to deploy with no missing details, so no extra details needed to deploy these patches.
- **Black color patches** - Patches that are missing some information, but are available to download. To create a patch, any missing details must be provided.
- **Gray color patches** - Patches that are missing some information including the vendor setup files. To create a patch, the vendor setup must be provided along with any missing details.
- **Green color patches** - Patches for which publishable packages have already been created.

## Create an Update Package

A Product will be displayed in blue if the vendor provides unattended/silent installation parameters for its patches. Any Product listed in blue is available to have an update created in a 3 step process. Right-click one of these Products and select Create Update Package to start the Package Creation Wizard.

To **Create Update Package** using 3 step process, see [Package Creation Wizard in Vendor Patch Module](#)



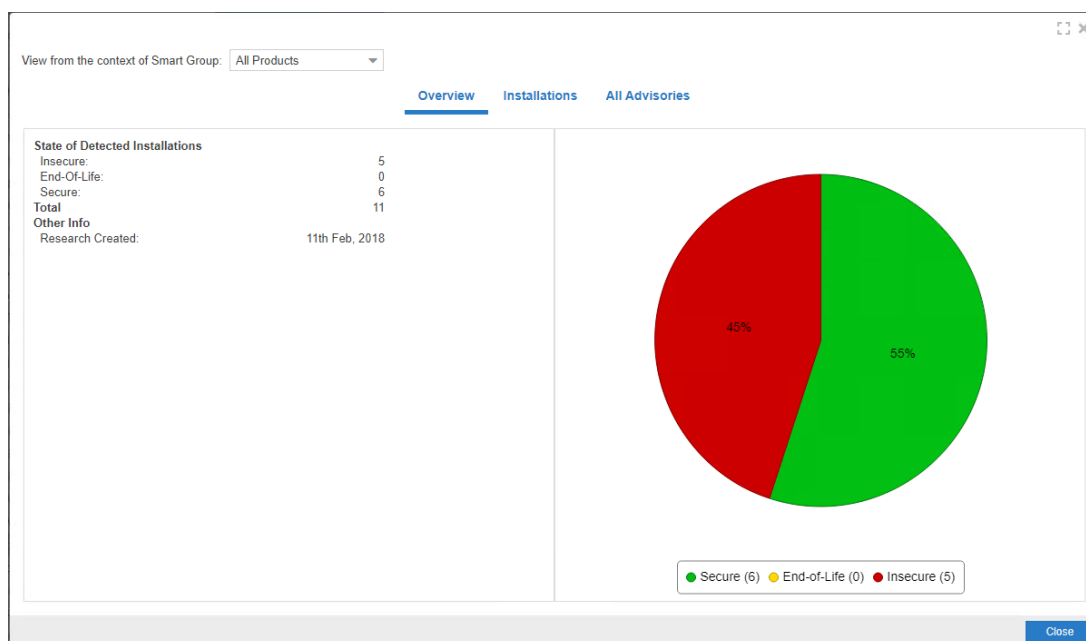
**Note** • You can not **Create Update Package** for MAC OS patches.

## View Installations

To see the installation details of a product in the Vendor Patch Module, Right-click on a product and select **View Installations** to open the wizard.

The **View Installations** wizard provides the following details:

- **Overview** - Provides the details of **State of Detected Installations** with a pie chart representation.
- **Installations** - Provides the list of Host machines where product is installed.
- **All Advisories** - Provides the list of Secunia Advisory ID and its criticality details.



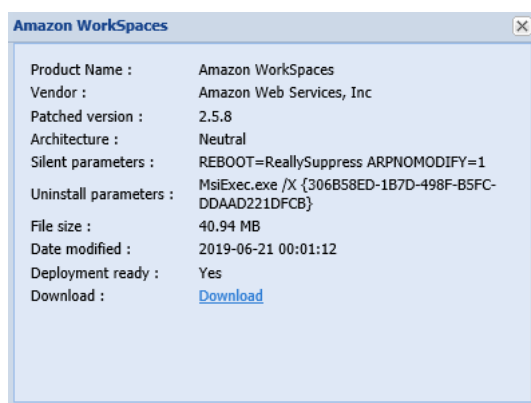
**Figure 9-3:** View Installations Wizard

## Patch Information

To know the details about any patch in the Vendor Patch Module, Right-click and select Patch Information.

Patch Information provides the following details of a selected patch:

- Product Name
- Vendor
- Patched Version
- Architecture
- Uninstall Parameters (If required)
- File Size in MB
- Date Modified
- Deployment ready status
- Download link



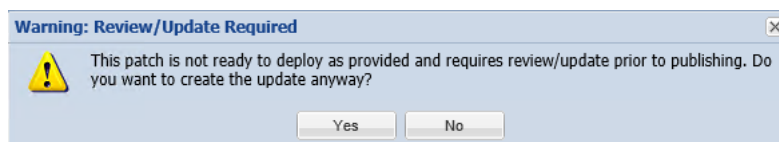
## Package Creation Wizard in Vendor Patch Module

The following steps explain how to create update Package:

- [Step 1 of 4: Package Configuration](#)
- [Step 2 of 4: Package Contents](#)
- [Step 3 of 4: Applicability Criteria - Paths](#)
- [Step 4 of 4: Applicability Criteria - Rules](#)

### Step 1 of 4: Package Configuration

In Step 1, if the selected product was in **Black** and **Gray** you will get a Warning message. click **Yes** to initiate the **Package Configuration** wizard.



In the Package Configuration wizard, click **Next**.

Step 1 of 4: Package Configuration

Use this form to set the name and description of the VPM package, or edit the properties of an existing one. In the following steps you will configure the package contents and parameters before creating and publishing the package.

Package Name

The package will be created with the following name. Choose a new name if desired.

Name:

Description (Optional)

Here you can give a description of the package. For example, what it does, the contents, usage, etc.

Description:

Reference Id (Optional)

Here you can assign an Id to this package if desired.

Reference Id:

Vendor & Product Naming

Choose this option to overcome limitations in the number of categories that can be published in the SCCM. This will set the vendor attribute of the package to *Flexera* and strip the product version from the product name.

☐ Use Flexera Custom Naming

Capture screenshot.

Previous

Next

Publish

Cancel

## Step 2 of 4: Package Contents

Step 2 provides the following package details:

- Silent Parameter
- Files to Include
  - Add Local File
  - Add Download Link



**Step 2 of 4: Package Contents**

Here you configure the package contents, including the silent parameters, and the files included.

**Silent Parameters**

Here you can provide silent parameters for the package

Silent Parameters:

**Files To Include**

Configure the files to include in this package. The grid below shows the files that are currently scheduled to be included, and if they will be downloaded dynamically (i.e., in the case of URLs) or if they are local files. You can add additional files via the 'Add File' button, as well as choose from additional language packages available via the 'Show Localised Files' button. To remove a files, right-click and select 'Remove'.

File(s) to include in the package	Status
Amazon+WorkSpaces.msi	To Be Dynamically Downloaded

Previous | Next | Publish | Cancel

You are also able to change the files that are included in the update package, which can either be local files or links to be dynamically downloaded upon publishing of the package.

Click **Next** to open the **Applicability Criteria - Paths** wizard.



**Note** • Note the following:

- If the selected product was **Blue** and **Black** in color, you can see the file(s) to include in the package.
- If the selected product was **Gray** in color, you need to add the file(s) or download link manually.

## Step 3 of 4: Applicability Criteria - Paths

In Step 3 you should select the paths/locations to which this package should be applied. These are usually populated by Software Vulnerability Manager based on the scans previously conducted.

Please be advised to only choose paths that are valid to avoid any update loops. You can also use paths with CSIDL and KNOWNFOLDERID if you select the Show Advanced Options check box. These variables should be used with their decimal value.

**Step 3 of 4: Applicability Criteria - Paths**

Here you can define the path-based applicability rules for this package. Below you will find any relevant paths already found or configured for the package. You can deselect paths in the grid or add paths as needed via the "Add Path" button. Check the "Advanced Options" box to enable additional options in the "Add Path" dialog and to show advanced options in the grid.

☒ Show Advanced Options

Add Path

**Always Install Option**

The purpose of this option is to allow installations of new software. For custom packages which are not updates to existing installations, you can bypass the "isInstallable" WSUS rule which will ignore all system paths when deciding if this package can be applied. Note - this will not bypass the rules for checking if something is already installed, or is superseded by a more recent version.

☐ Mark Package as "Always Installable"

**Minimum Version Option**

The purpose of this option is to allow for updating of older products. Normally one updates a product to its secure version within the same major version. You can alter this behaviour by specifying a custom minimum version. Note: the version you enter must also be supported by the installer itself - you cannot enter arbitrary values here.

Minimum Version:

<input type="checkbox"/> Path	Information	Advanced Options
<input checked="" type="checkbox"/> \\Amazon Web Services, Inc\\Amazon WorkSpaces\\workspaces.exe	Default Install Path	%ProgramFiles(x86)%

Capture screenshot [Previous](#) | [Next](#) | [Publish](#) | [Cancel](#)

For packages (except .msi and .msp) that do not have any paths for applicability, select the Mark Package as "Always Installable" check box to ignore all paths. Paths for App-V and Mac OS X are filtered out since they are not supported for patching.

Use the Minimum Version Option to update older products. Normally, a product is updated to its secure version within the same major version. You can alter this behavior by specifying a custom minimum version.

Click **Next** to open the **Applicability Criteria - Rules** wizard.



**Note** • The minimum version you enter must also be supported by the installer itself - you cannot enter arbitrary values here.

## Step 4 of 4: Applicability Criteria - Rules

In Step 4 you should specify if you want to limit the package to 32-bit or 64-bit systems or computers with specific operating system languages. The patch file to be deployed will be automatically downloaded in the background by the Software Vulnerability Manager console. Once this is completed the Software Vulnerability Manager console will publish the update package into the WSUS/System Center.

To export the package select Cabinet File (Export) and click **Publish**.

**Step 4 of 4: Applicability Criteria - Rules**

Here you configure the applicability rules for the package.

**System Applicability**  
Configure the system type(s) the package will be applied to.

Apply Package To: ☐ 32-bit Systems Only  
☒ 64-bit Systems Only  
☐ Both 32-bit and 64-bit Systems

**Language Settings**  
Configure package applicability rules based on language:

☐ Only make package applicable to computers with one of the selected languages.

Select Languages: Language

- Arabic
- Chinese (Hong Kong SAR)
- Chinese - (Simplified)
- Chinese - (Traditional)
- Czech
- Danish

**Publish Options**  
Select option for publishing Flexera package

Publish package using: ☒ WSUS  
☐ Schedule package to Patch Publisher  
☐ Altiris  
☐ Cabinet File (Export)

Previous | Next | Publish | Cancel

To publish a package to the Patch Publisher, select the **Publish Options** to **Schedule a package to Patch Publisher**, and then select the required connection from the **Patch Publisher Connections (Required)** drop down.



**Note** • Patch Publisher Connections are available only when you install the Patch Publisher for the account.

**Publish Options**  
Select option for publishing Flexera package

Publish package using: ☐ WSUS  
☒ Schedule package to Patch Publisher  
☐ Altiris

**Patch Publisher Connections (Required)**

Select connection: Intune Connection 1 ( Intune )

To configure your package to only applicable for certain languages of the operating system, select Only make package applicable to computers with one of the selected languages and select the relevant language.

After deployment, you can see the patches for which packages have been successfully created are highlighted in **Green** color in the **Vendor Patch Module** products list. See [Product Display Criteria for Vendor Patch Module](#).

Software Vulnerability Manager

Vendor Patch Module

Search Type: Product Search text: Search View from the context of Smart Group: Not Selected Configure View

Product	Vendor	Patched Version	Deployment Rea...	SAID	Criticality	Threat Score	Advisory Publs	Architecture	Insecure	End-Of-Life	Secure	Total	Hosts	Updated On	Export
DVDShrink (v86)	Alex Thring	3.1.0.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	12th Jul, 2019 1...	Download
Algodoo	Algoxyx	2.1.0.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	2nd May, 2019 0...	Download
Altaro Hyper-V Backup	Altaro	4.1.43.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	7th May, 2019 2...	Download
Kindle	Amazon	1.26.0.55076	Yes	SA74634	-	-	-	Windows 32-bit	0	0	0	0	0	12th May, 2019...	Download
Amazon WorkSpaces	Amazon Web Services, I...	2.5.8.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	20th Jun, 2019 1...	Download
Anaconda 3 (x64)	Anaconda Inc.	5.1.0.0	No	-	-	-	-	Windows 64-bit	0	0	0	0	0	2nd May, 2019 0...	Download
Anaconda 3 (x86)	Anaconda Inc.	5.1.0.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	11th Jul, 2019 1...	Download
PDFsam Basic	Andrea Vacobio	4.0.3.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	30th May, 2019...	Download
Android Studio	Android	3.4.2.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	10th Jul, 2019 1...	Download
Android Studio for Mac	Android	3.4.2.0	No	-	-	-	-	Mac Intel 64-bit	0	0	0	0	0	10th Jul, 2019 1...	Download
HeadSQL	Ansgar Becker	9.3.0.4964	No	-	-	-	-	Windows 32-bit	0	0	1	1	1	2nd May, 2019 0...	Download
AnyCAD Viewer 2011	AnyCAD Solution	2.0.1.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	2nd May, 2019 0...	Download
AnyDesk	AnyDesk Software GmbH	5.2.2.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	13th Jul, 2019 1...	Download
AnyDesk for Mac	AnyDesk Software GmbH	4.3.0.0	No	-	-	-	-	Mac Intel 32-bit	0	0	0	0	0	15th Jul, 2019 1...	Download
Any DWG to PDF Converter	AnyDWG Software Inc.	2015.0.0.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	2nd May, 2019 0...	Download
NetBeans IDE (x64)	Apache	11.0.0.0	No	-	-	-	-	Windows 64-bit	0	0	0	0	0	2nd May, 2019 0...	Download
NetBeans IDE (x86)	Apache	11.0.0.0	No	-	-	-	-	Windows 32-bit	0	0	0	0	0	2nd May, 2019 0...	Download
OpenOffice (English UK)	Apache	4.1.6.0	Yes	SA87068	-	-	2	15th Jan, 2019...	0	1	1	2	2	25th Jun, 2019 1...	Download
OpenOffice (English US)	Apache	4.1.6.0	Yes	SA87068	-	-	2	15th Jan, 2019...	0	1	1	2	2	25th Jun, 2019 1...	Download
OpenOffice (English US)	Apache	3.4.1.0	Yes	SA87068	-	-	2	15th Jan, 2019...	0	1	1	2	2	2nd Jul, 2019 17...	Download
Tomcat	Apache	9.0.22.0	No	SA33326	-	-	-	3rd Jun, 2009...	0	0	0	0	0	19th Jul, 2019 1...	Download
Tomcat	Apache	7.0.94.0	No	SA33326	-	-	-	3rd Jun, 2009...	0	0	0	0	0	2nd May, 2019 0...	Download
Tomcat	Apache	8.5.43.0	No	SA33326	-	-	-	3rd Jun, 2009...	0	0	0	0	0	10th Jul, 2019 1...	Download
ARServer Universal (x64)	App Dynamic	5.5.7.0	Yes	-	-	-	-	Windows 64-bit	0	0	0	0	0	4th Jul, 2019 17:...	Download
ARServer Universal (x86)	App Dynamic	5.5.7.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	4th Jul, 2019 17:...	Download
Free AppDeploy Respackager	AppDeploy	1.2.5.0	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	2nd May, 2019 0...	Download
Application Support (x64)	Apple	7.6.0.0	Yes	SA53216	-	-	-	25th Apr, 2013...	0	0	0	0	0	24th Jul, 2019 1...	Download
Application Support (x86)	Apple	7.6.0.0	Yes	SA53216	-	-	-	25th Apr, 2013...	0	0	0	0	0	24th Jul, 2019 1...	Download
iCloud (x64)	Apple	7.13.0.14	No	-	-	-	-	Windows 64-bit	0	0	0	0	0	24th Jul, 2019 1...	Download
iCloud (x86)	Apple	7.13.0.14	Yes	-	-	-	-	Windows 32-bit	0	0	0	0	0	24th Jul, 2019 1...	Download

## Automating Patch Deployment

In Vendor Patch Module, new option [Subscribe to Package](#) has been added to right click menu which helps user to automate deployment of patches.

Subscribed packages will be deployed automatically to configured WSUS using a new tool called **Software Vulnerability Manager Client Toolkit**, see [Download and Install the Software Vulnerability Manager Client Toolkit](#).

To use this option, navigate to **Patching >> Vendor Patch Module** or **Patching >> Patch Template**. List of patches appears.

You can know a patch whether it is already subscribed and its status in the **Subscribed** and **Subscription Status** column.

Right click on a patch, select the below option:

- [Subscribe to Package](#)
- [Edit Subscription](#)



**Note** • Install **Software Vulnerability Manager Client Toolkit** to utilize the Vendor Patch Module - Automation.

The screenshot shows the 'Vendor Patch Module' interface. On the left is a dark sidebar with navigation options: Dashboard, Scanning, Results, Reporting, Patching (selected), Flexera Package System, Patch Template, Vendor Patch Module, Patch Deployment Status, Administration, and Configuration. The main area displays a table of patches with columns: Product, Ven..., Pat..., Dep..., SAID, Criti..., Threat Score, Advisory Published, Arc..., In..., E..., S..., T..., H..., Upd..., Do..., Fl..., Sub..., and Sub... The table lists various patches with their respective details. A context menu is open over the first row, with options: Create Update Package, View Installations, Patch Information, **Subscribe to Patch** (highlighted with a red box), and Publish with QuickPatch.

## Subscribe to Package

Subscribe to package option provides interface to define the threshold for automation. It helps you to set the below preferences, based on your requirements.

Either one of the below preferences can be defined:

- **Always publish a new patch when a new version is available** - Publishes when new version of the patch is available.
- **Only publish a new patch when any of the following are true:** Publishes when any one of the defined preferences are met. To know more about the below preferences, see [Appendix B - About Secunia Advisories](#).
  - **SAID CVSS3 score is greater than**
  - **Criticality is greater than**
    - Extremely Critical
    - Highly Critical
    - Moderately Critical
    - Less Critical
    - Not Critical
  - **Threat score is greater than**
  - **Patched version greater than** - By default current version of a patch will be displayed

Either one of these option must be selected to define the deployment schedule based on the above preferences:

- **Trigger subscription rule above now for the current version** - Publishes the package right away
- **Trigger subscription rule above next time a new version is available** - Start publishes the package when newer version is available
- **Silent Parameters** - Saves custom silent parameters for VPM subscription

**Task**

**To automate a patch deployment do the below following:**

1. Right click a product or multiple products, select **Subscribe to Patch** option. **Configure Subscription** wizard appears.

2. Choose your preferences and select your deployment schedule. Click **Save**.



**Note** • To unsubscribe the subscription, see [Edit Subscription](#)

If you have installed Patch Publisher, then you can select the **Patch Publisher Connections** while subscription.



**Note** • The Patch Publisher Connections are available only when you install the Patch Publisher.

## Edit Subscription

If the package is already subscribed as explained in [Subscribe to Package](#), you can right click and select **Edit Subscription** to edit the configured preferences. To unsubscribe the subscription, click **Unsubscribe** button.

**Configure Subscription - 7-Zip (x64)**

Subscription started on 9th Dec, 2019 16:50

☐ Always publish a new patch when a new version is available  
☒ Only publish a new patch when any of the following are true:

SAID CVSS3 score is greater than

Criticality is greater than

Threat score is greater than

Patched version greater than

☒ Trigger subscription rule above now for the current version  
☐ Trigger subscription rule above next time a new version is available

Package configuration

☐ Use Flexera custom naming  
☒ Silent Parameters

## External Package Signing for Software Vulnerability Manager Client Toolkit

Using Manual Signatures (also known as External Signatures) allows separating the privilege of Windows Server Update Services (WSUS) administration from the privilege to mark a package as trusted for deployment. With automatic signatures (typically, but not always, using a self-signed certificate), the WSUS administrator has full access to a digital certificate and private key that is trusted by all the machines within the organization. With Manual signatures, WSUS, and thus the WSUS administrator, does not require access to the private key.

### Prerequisites

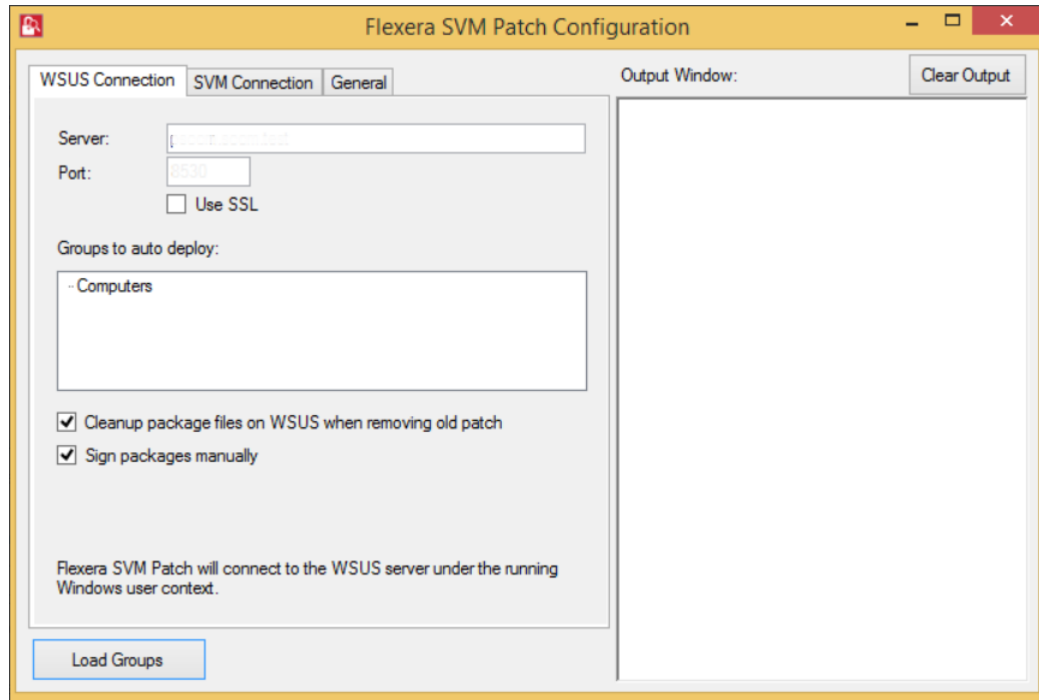
The below prerequisites are required:

- pfx certificate needs to be installed in WSUS m/c in Trusted publisher and Trusted CA.
- pfx certificate needs to be installed in Trusted publisher and Trusted CA in the m/c where patch daemon is installed.

**Task**

To External Package Signing, perform the following steps:

1. In Patch daemon, select **Sign package manually** option.



2. Restart the patch daemon.
3. Subscribe VPM packages and wait for patch daemon to fetch the tasks.
4. Patch daemon creates unsigned .cab files and places in the unsigned folder location.
5. The Unsigned folder location is available in the subscription status page as an unsigned path.

Subscription Status									
Search Type:	Package	Search text:		Search					Export
Packa...	Vendor	Type	Version	Unsigned Path	Signed Path	Status	Published to	De	
Updat...	Google	VPM	83.0.4103.116	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\bfbffe46-8ac0-4947-9836-8bea1e62f335\googlechromesta...		Waiting for sign...			
Updat...	VideoLAN	VPM	3.0.11.0	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\8bee5266-d911-4edf-b68d-909bf0fa7474\vlc-3.0.11-win32...		Waiting for sign...			
Updat...	FileZilla	VPM	3.49.1	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\fa214f314-9e22-4360-9eea-b0129cc0afee\FileZilla_3.49.1_w...		Waiting for sign...			
Updat...	Google	VPM	84.0.4147.89	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\95b408bc-d99a-47b7-a768-2d40846222b6\googlechromest...		Waiting for sign...			
Updat...	Google	VPM	84.0.4147.89	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\ef8c91529-beea-4856-9edd-4b78415cc780\googlechromesta...		Waiting for sign...			
Updat...	FileZilla	VPM	3.49.1	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\efac1813-78ed-4057-8d29-b8a4efdea3df\FileZilla_3.49.1_w...		Waiting for sign...			
Updat...	Martin Prikl	VPM	5.17.7	C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Unsigned\4d75cd07-baf1-4073-ba50-ef78a12728e6\WinSCP-5.17.7-S...		Waiting for sign...			

6. Sign the cab file using the format below and place the signed .cab file in the signed folder.

For example:

C:\ProgramData\Flexera Software\SVM Patch\SVMPatch IO\Signed\package\_id\



**Note** • Private Keys are typically stored in .pvk files, and public keys are stored in .cer or .pfx files.

7. During the next check-in, the daemon picks and publishes the signed cab files.



# Agent Deployment

If you choose to scan the target host by using the Software Vulnerability Manager Agent in Single Host mode (recommended), you can easily distribute and install the Agent by deploying it through WSUS/System Center.

Click Create CSI Agent Package under Agent Deployment to start the Software Vulnerability Manager Agent Package wizard.

**Agent Deployment**

**Agent Summary**  
Below is a summary of the Software Vulnerability Manager Agents currently installed in the network.  
NOTE: The statistics are based on scan results thus may be out of synchronisation with your WSUS/System Center server if a scan has not been recently performed.

**Overall Agent Statistics**

Total Number of Hosts:	65
Number of Hosts with an Agent Installed:	36
Number of Hosts without an Agent Installed:	29

**Version Statistics for Installed Agents**

Hosts with the Newest Agent Installed ( $\geq 7.6.0.2$ ) :	2
Hosts with an Older Agent Installed ( $\geq 7.0.0.0$ and $< 7.6.0.2$ ) :	34
Hosts with an Outdated Agent Installed ( $< 7.0.0.0$ ) :	0

**Deploy the Software Vulnerability Manager Agent through your Microsoft WSUS/System Center Server**  
Click "Create Software Vulnerability Manager Agent Package" to start the Software Vulnerability Manager Agent Package wizard.

Create Software Vulnerability Manager Agent Package

The Software Vulnerability Manager Agent Package can be created and managed just like any other SPS package.

## SVM Agent Deployment Package Configurations

The Agent Deployment package allows the configuration of a variety of agent installation options that can be used to customize the agent prior to deploying the package.

The command-line options of the agent can be set in the script that is provided at step 2 of the SPS Agent Deployment package configuration wizard.

**Execution Script**

View/Edit the execution flow and script type for this SPS package.

Script Type: JScript (Javascript)

Execution Flow:

```
// var silentParams = "";

// The following variables can be optionally modified and will be
// used accordingly
var proxyUsername = "";
var proxyPassword = "";
var proxyHost = "";
var proxyPort = "";
var runAsUsername = ""; // If a domain is used please use: user@domain
var runAsPassword = "";
var siteName = "";
```

Configure **runAsUsername** when you intend to install and run the agent under service account different than **LocalSystem**. You are required to configure the **runAsPassword** together with that.

Configure **runAsUsername** and **runAsPassword** when the network proxy will block **LocalSystem** to perform online connections. Then you will be required to use a service account to run the agent as an authenticated user to have it easily bypass network blocking.

Configure **ProxyUsername** and **ProxyPassword** variables when the username and password for the network proxy are not shared with active directory and are verified only against the proxy server.

Configure **proxy host** and **proxyPort** variables when you want to specify which proxy should be used by the local agent to successfully connect to its target online servers at Flexera.

Configure the **SiteName** variable when you want to define a custom site grouping in the management interface. This method should never be combined with the use of Active Directory feature in Software Vulnerability Manager. You must decide which you will use and stick to it.

**SiteName** is also used when extra options like debugging parameters or scan interval randomization commands must be included in the installation command of the agent.

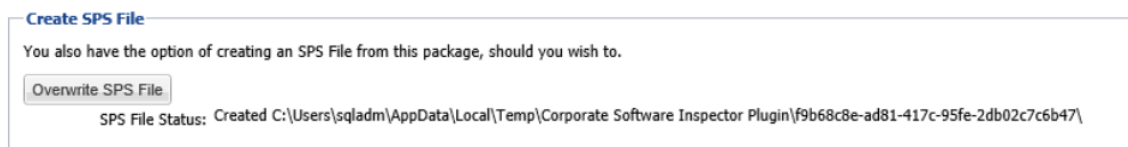
The next command will install the agent with custom site Hi, scan interval 30 minutes, and will create a log file of the installation of the agent that will run until you uninstall the agent.

```
siteName = "Hi -si 30 -d c:\agent-log.txt -v";
```

### Preliminary Package Testing

After your settings are configured in the script SPS gives you the option to export the file on the local file system and execute it. The exported file is always called sps.exe. This executable is ready to install, and it includes the settings you have set in the execution flow script.

For each script change, you can export different package and test until you get a working package. This is your final goal, an agent deployment package that installs an agent that successfully communicates with its server without errors.



### Agent Package Applicability

The agent deployment package enables you to publish the installer as a software update to WSUS. Its applicability rules are set to always install. It will execute on any endpoint where it has not been installed, or where a previous agent version exists without having to pass SCCM package applicability evaluation which is traditional for every other 'update' type of package published through SVM.

## Add Proxy Settings

You can add proxy settings to the installation script in the SPS wizard when creating the agent deployment package. In Step 2 of 4: Package Contents, modify the variables in the Execution Flow field.

**Step 2 of 4: Package Contents**

Here you configure the package contents, including the execution script included, and the files included.

**Execution Script**  
View/Edit the execution flow and script type for this SPS package.  
Script Type: JScript (Javascript)  
Execution Flow:

```
// The following variables can be optionally modified and will be
// used accordingly
var proxyUsername = ""; // NOTE: If proxyUsername is entered you must enter
runAsUsername and runAsPassword as well
var proxyPassword = ""; // NOTE: If proxyPassword is entered you must enter
runAsUsername and runAsPassword as well
var proxyHost = "";
var proxyPort = "";
var runAsUsername = ""; // If a domain is used please use: user@domain
var runAsPassword = "";
var siteName = "";

function main() {
    if ( !GUID ) {
        server.logMessage( "No GUID supplied for package " + Title );
    }
}
```

**Files To Include**  
Configure the files to include in this package. The grid below shows the files that are currently scheduled to be included, and if they will be downloaded dynamically (i.e., in the case of URLs) or if they are local files. You can add additional files via the 'Add File' button, as well as choose from additional language packages available via the 'Show Localisation Files' button. To remove a files, right-click and select 'Remove'.

File(s) to include in the package	Status
http://dl.secunia.com/SPS/GoogleChrome_66.0.3359.139_64-bit_SPS.exe	To Be Dynamically Downloaded

Add Local File

Add Download Link

Add Localisation (Language) File

**Create SPS File**  
You also have the option of creating an SPS File from this package, should you wish to.  

Create SPS File

Previous | Next | Publish | Cancel

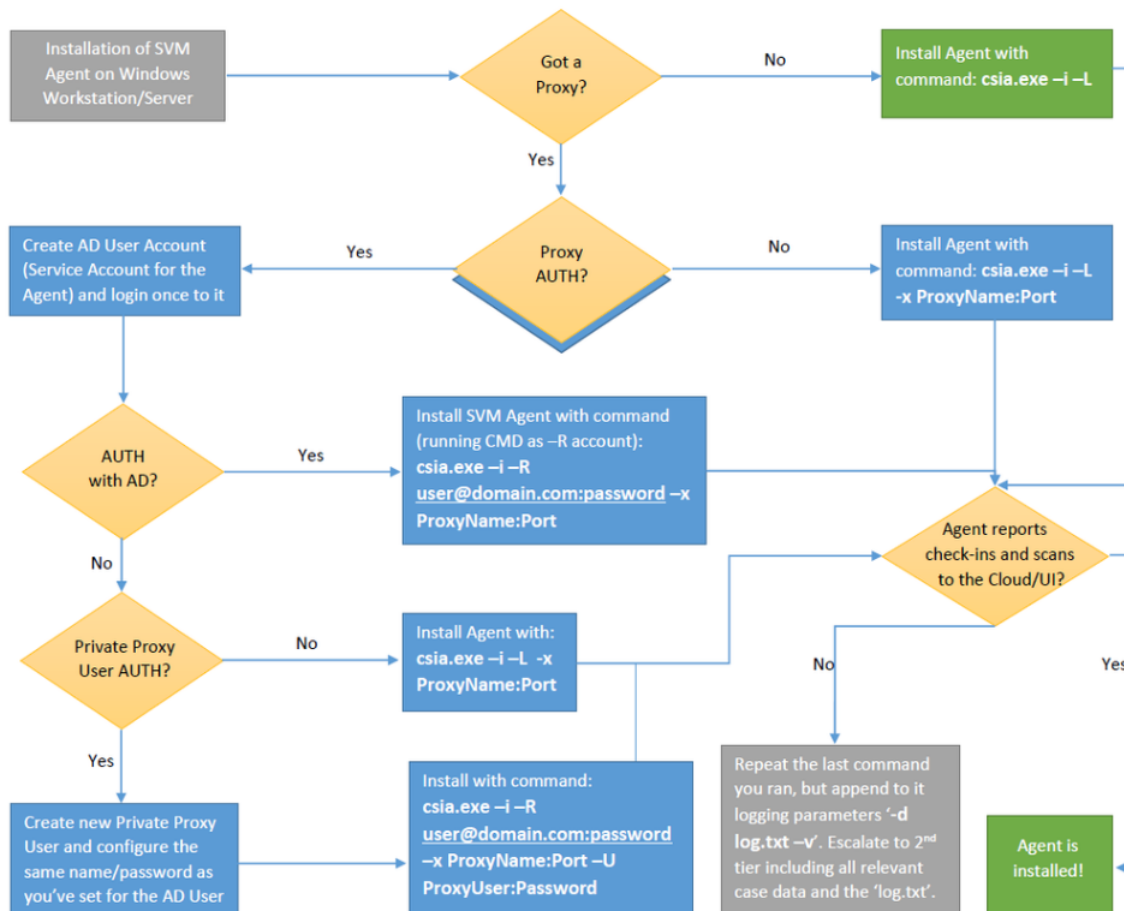
## SVM Agent Deployment Logic to Avoid Proxy Blocking

When there is a proxy on the network, in many cases you might be best suited to install agents under managed domain service account which can authenticate through the proxy successfully, especially when the LocalSystem account is disallowed to connect online by Proxy or local domain policies.

When there is no proxy or the existing proxy does not require client/user authentication to allow online access, installing the Single Host Agent under LocalSystem account and setting up the netsh winhttp forwarding to the correct proxy server is sufficient to have the Agent bypass the network successfully.

You should use this logic flow to match the correct way to set up your Agent based on the networking requirements of your estate. -L symbolizes installation under "LocalSystem" while -R symbolizes "RunAs" installation under a managed domain service account.

This type of planning can save you from having to revert to a different configuration because of network proxy blocking and permission problems that prevent SVM 2019 Agents to report back scan results.



You can use automated deployment and configure the correct parameters in the Agent configuration. For more information see, [SVM Agent Deployment Package Configurations](#).

## WSUS/System Center

The following sections describe the WSUS/System Center:

- [Available](#)
- [Deployment](#)

## Available

Right-click a package for more options such as Approve, Decline or Delete or double-click a package to display additional status details.

Available Packages											
critical	Search	Approval State: Any	Installation State: All								
Name	Vendor	Approved	Approved Groups	State	Instal...	Pendi...	Failed	Not N...	Unkn...	Creation Date	
Update LibreOffice 5.x, version 5.4.6, Moderately Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	26th Apr, 2018 02:40
Update LibreOffice 5.x, version 5.4.5, Moderately Critical_VA	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	22nd Mar, 2018 22:28
Update Google Chrome, version 66.x, Highly Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	2nd May, 2018 05:06
Update Google Chrome, version 66.x, Highly Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	23rd Apr, 2018 22:30
Update Google Chrome, version 65.x, Highly Critical_39_user1	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 04:26
Update Google Chrome, version 65.x, Highly Critical - Group Staging	Google	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 03:53
Update Google Chrome, version 65.0.3325.181, Moderately Critical	Google	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 17:34
Update Google Chrome, version 64.x, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 06:26
Update Google Chrome, version 64.x, Highly Critical	Google	Not Approved	Not Approved	Ready	0	0	0	0	0	23	7th Mar, 2018 01:11
Update Google Chrome, version 63.x, Highly Critical 64 bit	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	16th Mar, 2018 06:33
Update Google Chrome 65.x, version 66.x, Highly Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	27th Apr, 2018 02:02
Update Google Chrome 63.x, version 64.x, Moderately Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 02:43
Update Google Chrome 63.x, version 64.x, Highly Critical 64bit	Google	Not Approved	Not Approved	Ready	0	0	0	0	0	23	19th Mar, 2018 11:02
Update Google Chrome 63.x, version 64.x, Highly Critical 32bit	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	26th Mar, 2018 06:09
Update Google Chrome 63.x, version 64.x, Highly Critical 32bit	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 00:11
Update Google Chrome 63.x, version 64.x, Highly Critical	Google	Not Approved	Not Approved	Ready	0	0	0	0	0	23	7th Mar, 2018 01:08
Update Google Chrome 61.x, version 65.x, Highly Critical_19Mar	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	19th Mar, 2018 22:38
Update Google Chrome 61.x, version 62.x, Highly Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	2nd May, 2018 05:15
Update Google Chrome 61.x, version 62.x, Highly Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	1st Mar, 2018 18:54
Update Google Chrome 60.x, version 62.x, Highly Critical 64 bit	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 23:15
Update Google Chrome 58.x, version 64.x, Moderately Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 09:28
Update Google Chrome 58.x, version 64.x, Moderately Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 02:35
Update Firefox 3.x, version 3.21.0, Moderately Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 01:10
Update eHive Plus 1.x, version 1.2.5.0, Less Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 00:08
Update eHive Plus 1.x, version 1.2.5.0, Less Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	26th Apr, 2018 02:49
Update CallBre 2.x, version 3.x, Moderately Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 05:49
Update Apple iTunes 12.x, version 12.7.3, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 03:19
Update Apple iTunes 12.x, version 12.7.3, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	22nd Mar, 2018 04:28
Update Apple iTunes 12.x, version 12.7.1 (32-bit), Highly Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 01:02
Update Apple iTunes 12.x, version 12.6.2 (32-bit), Highly Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	18th Mar, 2018 21:40
Update Adobe Shockwave Player, version 12.3.1.201, Highly Critical	Adobe Systems	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 03:43
Update Adobe Shockwave Player 10.x, version 12.x, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	19th Mar, 2018 15:16
Update Adobe Shockwave Player 10.x, version 12.x, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	19th Mar, 2018 15:35
Update Adobe Reader XI 11.x, version 18.x (Continuous), Highly Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 01:03
Update Adobe Reader XI 11.x, version 11.0.23, Highly Critical	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	26th Apr, 2018 02:03
Update Adobe Flash Player, version 29.x (NPAPI), Highly Critical_justina-user1	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	21st Mar, 2018 05:12
Update Adobe Flash Player, version 29.x (NPAPI), Highly Critical_20thMar	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	28th Mar, 2018 04:40
Update Adobe Flash Player, version 27.x (NPAPI), Highly Critical 32/64	Adobe Systems	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 00:08
Update Adobe Flash Player 27.x, version 28.x (NPAPI), Moderately Critical	Secunia	Approved	Approved	Ready	0	0	0	0	0	23	2nd May, 2018 05:13
Update Adobe Flash Player 27.x, version 28.x (NPAPI), Moderately Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	16th Mar, 2018 02:40
Update Adobe Acrobat Reader, version 11.x, Highly Critical	Secunia	Declined	Not Approved	Not Needed	0	0	0	0	0	0	20th Mar, 2018 06:36
Update 7-zip 9.x, version 16.x, Highly Critical_user1_rnd7	Secunia	Not Approved	Not Approved	Ready	0	0	0	0	0	23	27th Mar, 2018 04:30



**Important** • Once the updates have been published into the WSUS, the same rules previously configured for the Microsoft updates will apply to the updates created by Software Vulnerability Manager. If the updates automatically appear with the Approved status, this means that this setting is being inherited from the WSUS.

## Deployment

Use this page to view a host's information collected from the WSUS Server. Use the Installation State drop-down list to filter the hosts being displayed.

Right-click a host and select Information to view additional details such as: Scan Result, Patch Information, Patches Available and Overview.

You can also right-click a host listed in this view and select Verify and Install Certificate to install the required certificate created or imported in [Step 2 - Certificate Status](#).

Usually the certificate is installed through a GPO as described in [Step 3 – Group Policy Status](#).

In order for Software Vulnerability Manager to connect to WSUS and to create packages successfully, Internet Explorer must be run As Administrator in most cases (right-click and select Run as administrator). Also note that the Remote Registry must be enabled on hosts for which you intend to install the certificate using the Software Vulnerability Manager GUI. The remote registry is not needed if distributing the certificate through GPO.

The WSUS Self-Signed Certificate can also be installed through a manually created Group Policy.

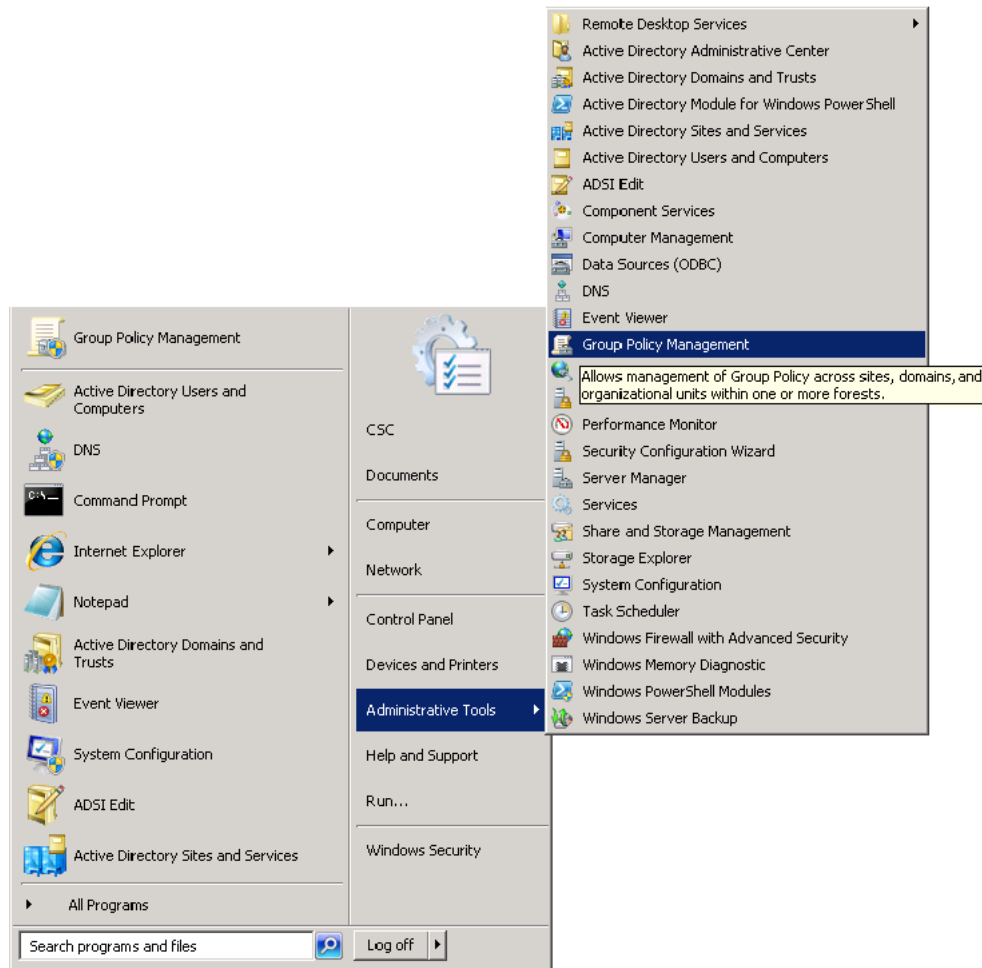
# Creating the WSUS-CSI GPO Manually



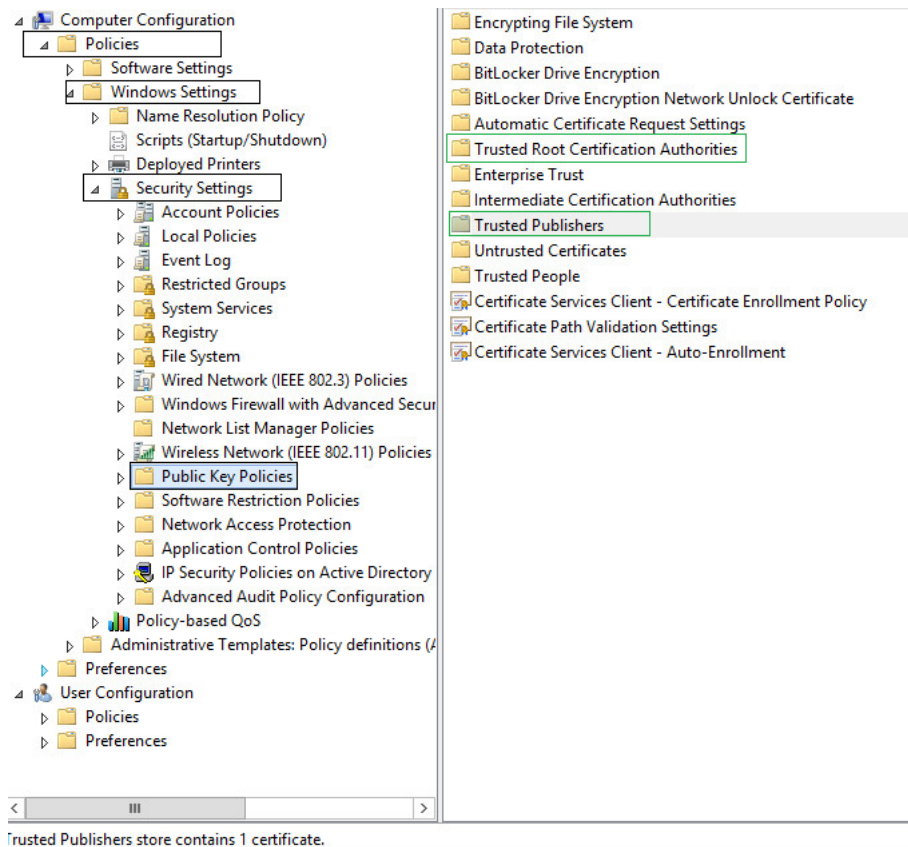
## Task

**To create the WSUS-CSI GPO manually:**

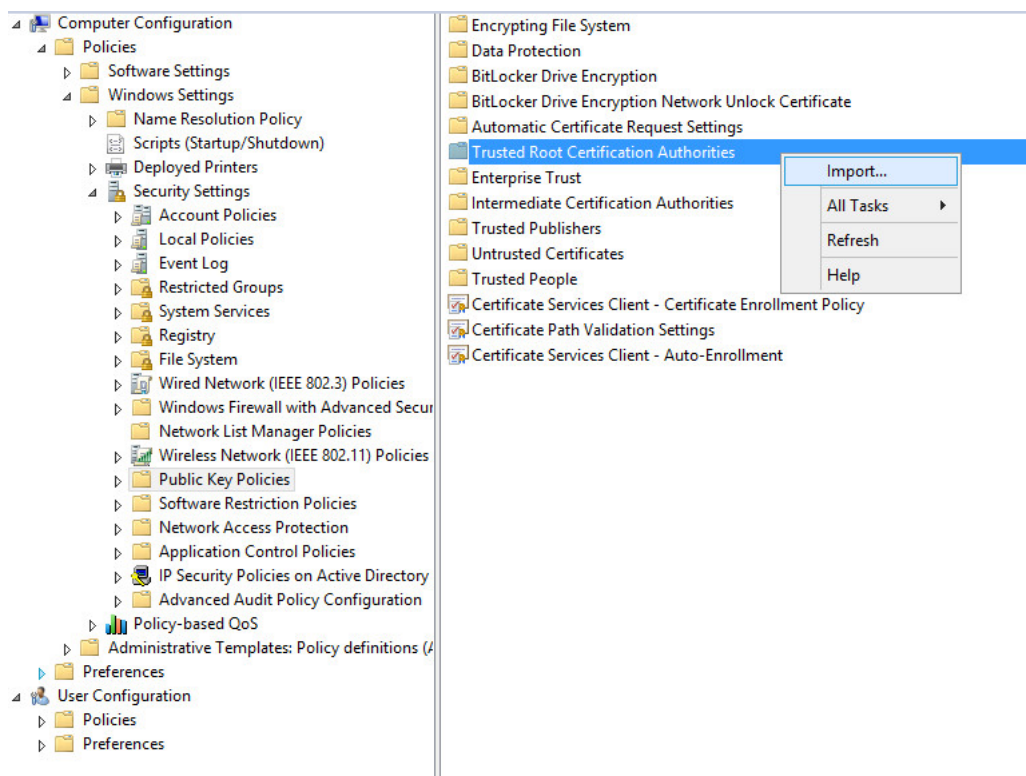
1. Export the WSUS Self-Signed Certificate.
2. On the Domain Controller, click Start > Administrative Tools > Group Policy Management. Right-click your Domain name and select Create a GPO in this domain, and Link it here. Alternatively you can edit an existing GPO.



3. Right-click the GPO that you created/edited in the previous steps and select Edit.
4. Navigate to Computer Configuration > Policies > Windows Settings > Security Settings > Public Key Policies.

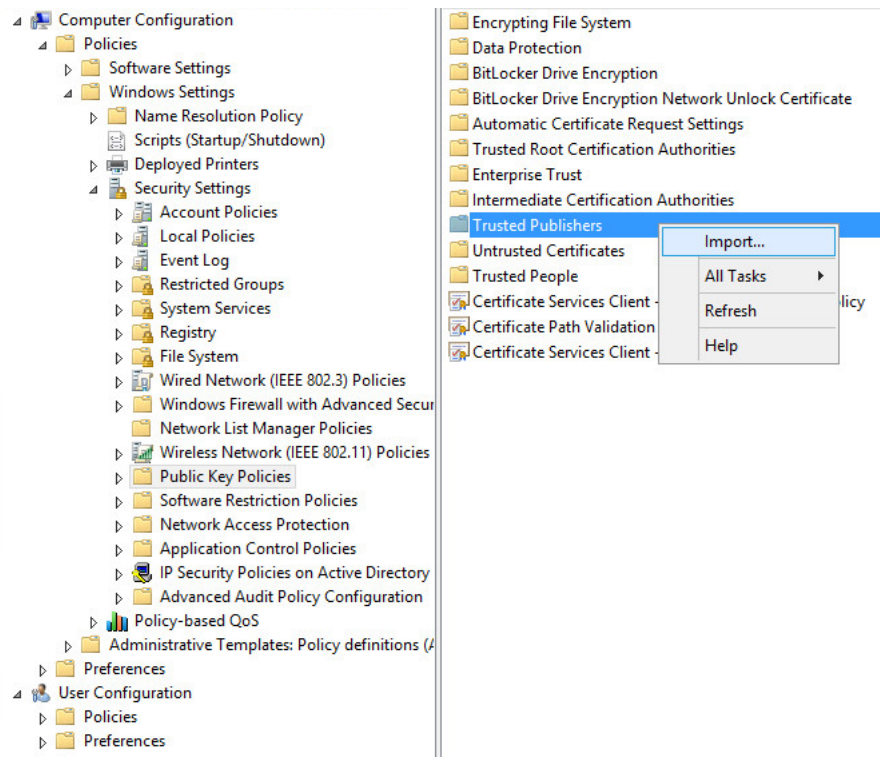


5. Right-click 'Trusted Root Certification Authority' and select 'Import'. Import the certificate that you exported in Step 1.

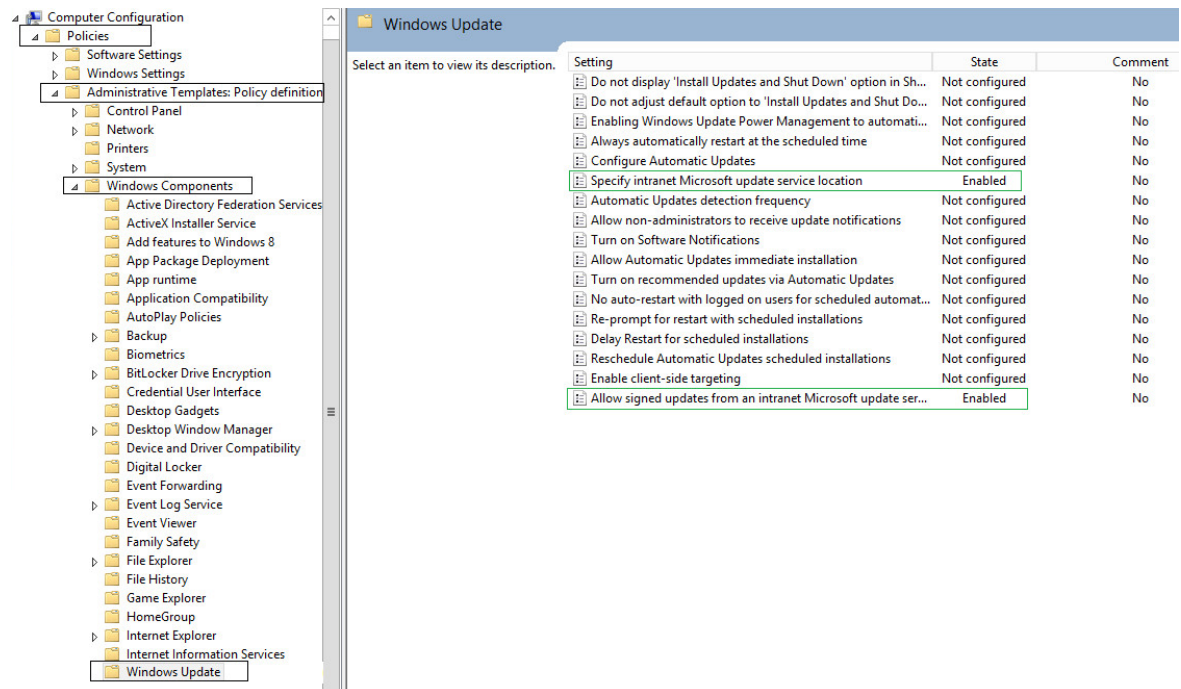




6. Repeat Step 4 and import the certificate for Trusted Publishers.

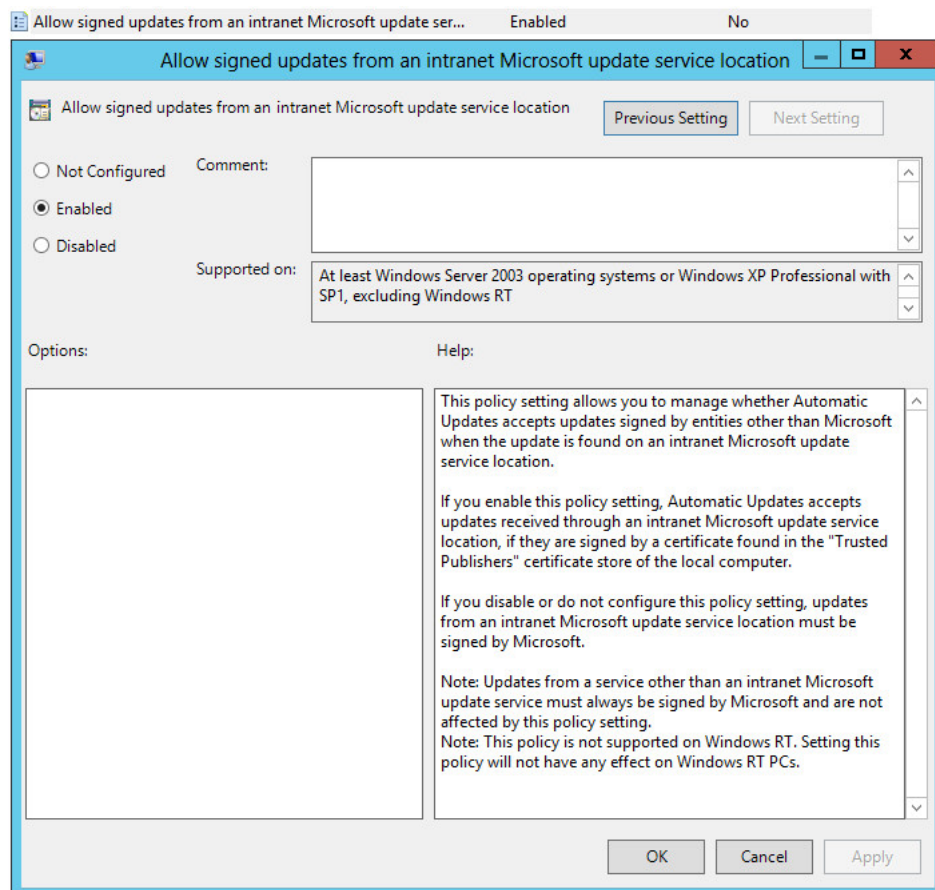


7. Navigate to Computer Configuration > Administrative templates > Windows Component > Windows Update.

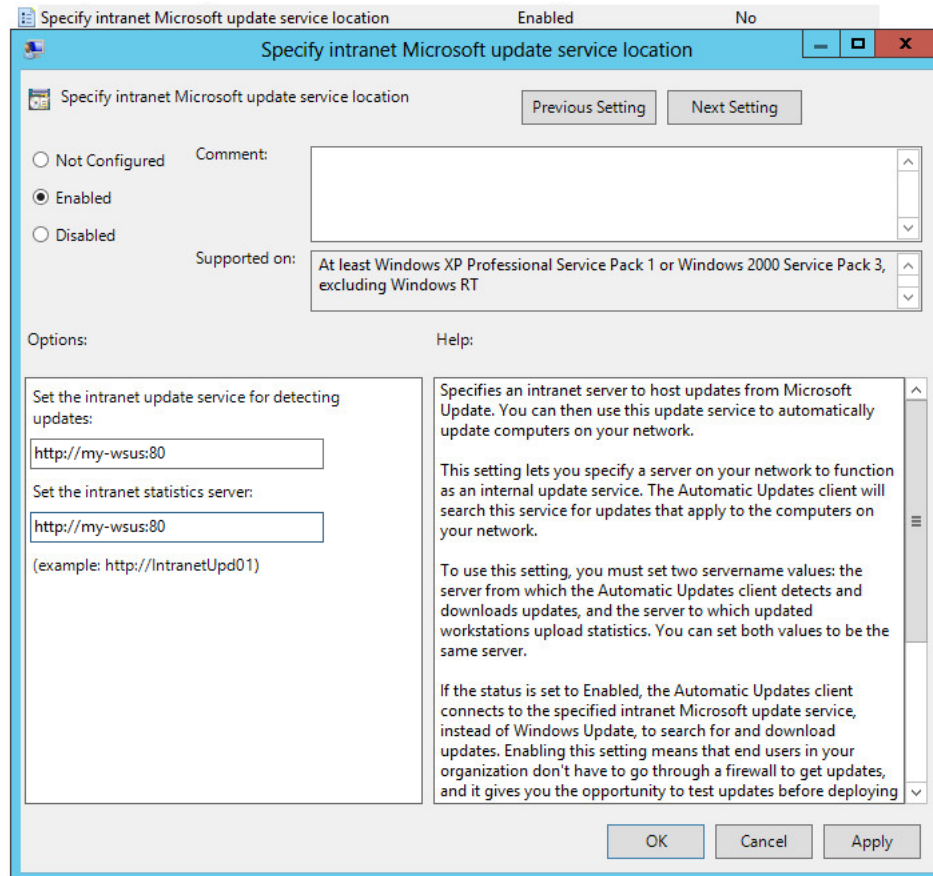


8. On the right side menu, double-click **Allow signed updates from an intranet Microsoft update service location**. Select **Enabled** and click **OK**.

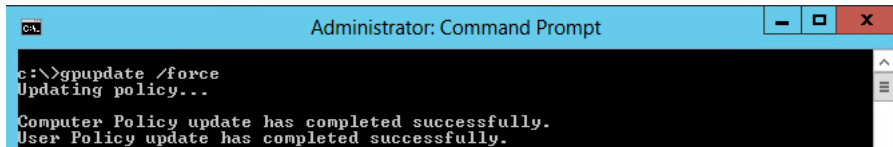




- On the right side menu, double-click Specify intranet Microsoft update service location. Enable this setting and modify the existing empty fields with the intranet address of your WSUS Server. This step is only valid for WSUS integration and is not required for System Center Configuration Manager integration.



10. Link the created GPO to an Active Directory container appropriate for your environment.



The clients affected by the created GPO will install the certificate being distributed (either the WSUS Self-Signed Certificate or your own CA certificate) and acknowledge the Windows Update settings that you have specified in the GPO.

By default, Group Policy refreshes in the background every 90 minutes, with a random offset of 0 to 30 minutes. If you want to refresh Group Policy sooner, you can go to a command prompt on the client computer and type:

```
gpupdate /force
```

Refer to <http://technet.microsoft.com/en-us/library/cc720539> for further information on how to configure Automatic Updates by Using Group Policy.

## Deploying the Update Package Using WSUS

To deploy the update package using WSUS, the update package must be approved. After publishing the package into the WSUS, and assuming that the update is visible under Available, right-click the package name and select Approve.

You will be prompted to select the computer target groups for which you would like to approve the update. These target groups are configured in the WSUS.

The same approach should be used if you wish to decline a previously approved update.

## Deploying the Update Package Using System Center

The actions Approve and Decline are only applicable if the package is to be deployed through WSUS. If you are using the Microsoft System Center, the package created with Software Vulnerability Manager will be available in your System Center.

## Integrate SVM with WSUS/SCCM and Deploy a Patch

Users often require additional help for the logical process workflow when it comes to integrating the Software Vulnerability Manager 2019 software to their internal WSUS or SCCM servers for patching.

In most, users need additional elaboration on what is the right sequence of steps to integrate SVM and what actions will be needed to troubleshoot expected errors that come in their way as part of the deployment process.

Flexera has made a logic flow map that provides essential knowledge of the steps involved to integrate the SVM to your internal server infrastructure and the steps to troubleshoot basic errors or exceptions that might come in your way while you're performing this process. We also provided an extensive amount of additional information that can help you investigate package errors in the different phases of the deployment process of a package made with SVM and handled for deployment in WSUS/SCCM/CCM.

Customers are highly encouraged to follow this diagram at their best effort, before reporting support cases to Flexera Support, as they would also receive a greater knowledge in learning each step of the integration while following the diagram.

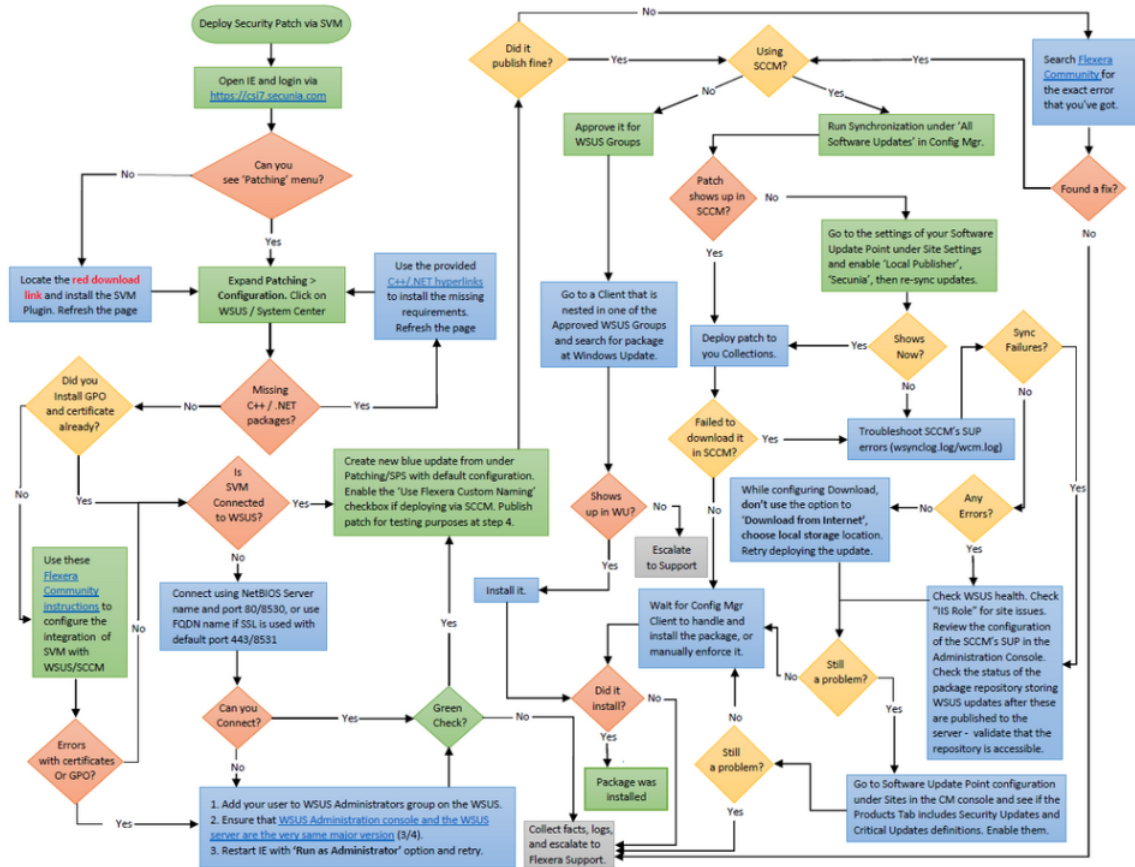


Figure 9-4: Logic Flow Map

You can download the attached PDF document under this KB for a better resolution of the logic map.

Customers are highly advised to include the relevant log files that enable visibility when they send their cases to the Flexera Support team. Depending on where the problem occurred (in which phase), the following log files can be relevant:

## Patch Creation phase

If there was a technical problem not covered by the logic flow map, the first course of action should always be to search the error you see inside this Flexera Community site, as Flexera Support issues KBs for each new error that is detected with customers. The chance of finding a solution here is very high.

If that did not help you solve the issue or move further in the mapping process, find the "%userprofile%\My Documents\csi\_pluginlog.txt" file on the system where you tried creating a patch and submit that to our Support team adding as much as information about your case as possible.

## Patch Deployment phase

The patch was published successfully, but there is an issue with your WSUS server not sending the update to the recipients you approved it for. This may be expected if the recipients did not have the same software already installed (hence, the patch is not applicable, that's why it is not showing up). This is where you have to check the patch applicability rule configured in the SPS wizard -> steps 3 and 4 and verify all enabled requirements of the patch against the clients not receiving it.

If the patch was published to SCCM, you should first and foremost ensure that your SCCM/WSUS (SUP) configuration is intact. If it is and you're successfully publishing Microsoft patches that way, then you can troubleshoot the `wsynclog.log` file for errors that might shed more light on what is causing a problem with the synchronization of the patch between the WSUS DB and the SCCM's own database.

## Patch Download/Installation phase

If the patch has shown up and you've deployed it to hosts, but the hosts failed to install it, you can look into the respective client logs for the CCM Client service, Windows Update, or the Secunia Logs as well:

- Check `C:\Windows\SecuniaPackage.log` for any traces of installation - did package ran to install?

If it ran - patch applicability rules are fine - there's an execution error, however.

If it did not run at all and there are no traces of that - there are most likely patch applicability issues or management point download issues. Such problems can be diagnosed in the log files (to name a few):

`C:\Windows\CCM\Logs\UpdatesDeployment.log`

`C:\Windows\CCM\Logs\UpdatesHandler.log`

- If the patch ran and there's an obvious error in the `SecuniaPackage.log` file - check the "`C:\Windows\WindowsUpdate.log`" file next. You can also find more information on the CCM->WUA patch passing in the `C:\Windows\CCM\Logs\WUAHandler.log` file.

Windows Update is the last service to touch the patch upon execution and the first one to handle the incoming errors - disregarding if you use SCCM or WSUS - that's the case for both scenarios. This log file will contain many lines of error description that you can check against MS Technet first.

- If you deploy patch via SCCM and your WUA service, CCM service, and `SecuniaPackage.log` all indicate that the package was installed correctly (hence, exit code = 0), but your SCCM is showing wrong compliance of the patch, then you are likely to be looking at a known bug in the CCM "state message" handling of the CCM service that transmits the wrong execution status to its server (for which you can only talk to Microsoft about as Flexera cannot be helpful to solve known CCM-related bugs).

### This issue can be identified using some of the following logs:

`C:\Windows\CCM\Logs\StateMessage.log`

`C:\Windows\CCM\Logs\SCNotify_<domain>@>WindowsUsername>`

`C:\Windows\CCM\Logs\SCClient_<domain>@>WindowsUsername>`

as well as the following local WMI classes where CCM stores the incorrectly handled package execution status, and the incorrect state messages being sent to the SCCM server database (to name a few):

```
root\ccm\SoftwareUpdates\UpdatesStore -Class CCM_UpdateStatus
```

```
root\ccm\SoftwareUpdates\DeploymentAgent -Class CCM_TargetedUpdateEx1
```

```
root\ccm\SoftwareUpdates\DeploymentAgent -Class CCM_AssignmentCompliance
```

```
root\ccm\ClientSDK -Class CCM_SoftwareUpdate
```

```
root\ccm\SoftwareUpdates\WUAHandler.
```

# Patch Configuration

The following patch configurations are available in Software Vulnerability Manager:

- [External Package Signing](#)
- [WSUS/System Center](#)
- [Setting Up Clients to Access WSUS](#)
- [Third-Party Integration](#)
- [Create and Publish the Package](#)

## External Package Signing

Software Vulnerability Manager allows you to export packages as Cabinet files (.cab) which can be used to publish signed cab files using the Software Vulnerability Manager Daemon. To enable this feature, you must run `daemon.exe -S --publish-dir <PATH>` after the Daemon has been installed. This will initiate a monitoring feature in the Daemon which will look for Cabinet files in the directory `<PATH>/Flexera Software IO/`.



**Note** • `<PATH>` must be an existing directory that is accessible by the user the Daemon is running as and the subdirectory `Flexera Software IO` is added by the Daemon for security reasons.

**External Package Signing Configuration**

**External Package Signing Settings**

Configure whether to use external signing when publishing packages to WSUS server.

☒ Enable External Package Signing

Save External Package Signing Settings

Select Enable External Package Signing on the configuration page and provide a path to where the packages will be exported. Similar to the Software Vulnerability Manager Daemon, a subdirectory (`Flexera Software IO`) will be added for security reasons.

Specify the recipients who will receive an email notification when a package is published or if it failed to do so.

**External Package Signing Recipient Settings**

These settings define the external package signing email recipient used for notifications about published or failed packages. Select email addresses and click "Save" to update your recipients.

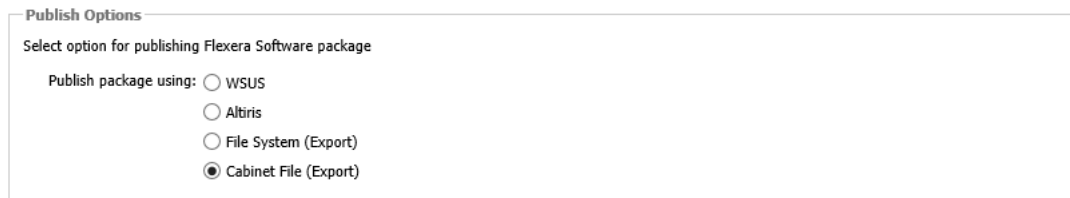
Search... Search

Available Email Recipients		Selected Email Recipients	
Name	Email	Name	Email
<input checked="" type="checkbox"/>	[Redacted]	<input checked="" type="checkbox"/>	[Redacted]
<input type="checkbox"/>	[Redacted]		
<input type="checkbox"/>	[Redacted]		
<input type="checkbox"/>	[Redacted]		

Page 1 of 3 | Displaying Available Recipients 1 - 4 of 11

Save Recipient Settings

If the External Package Signing option is enabled the SPS Package Wizard will by default select the Cabinet File (Export) option in Step 4.



An export will create a Cabinet file which includes the files required to patch applicable components.

To publish these packages you must sign them and place them in the Daemon monitoring directory. The WSUS server must be set up correctly with the certificate used to sign the packages. Once a Cabinet file has been exported it can be signed using your favorite signing method. Then, after placing it in the directory monitored by the Daemon, it will be picked up and published to the WSUS server. You must ensure that the WSUS server can verify the certificate used for signing.

A notification email will be sent to the account email of the user running the Daemon to inform the user know about success or failure for published packages.



**Note** • The export and monitoring directories should not be the same since it will try to publish unsigned Cabinet files which will not be allowed.

## WSUS/System Center

Use this option to configure the integration of Software Vulnerability Manager with your WSUS server(s). If you have a single WSUS server, which is connected to the Microsoft Updates site, running the Configure Upstream Server wizard will be sufficient for setting up Software Vulnerability Manager with WSUS.

After clicking Configure Upstream Server, a configuration wizard will be initiated.



Follow the wizard steps to successfully integrate Software Vulnerability Manager with your Microsoft WSUS.

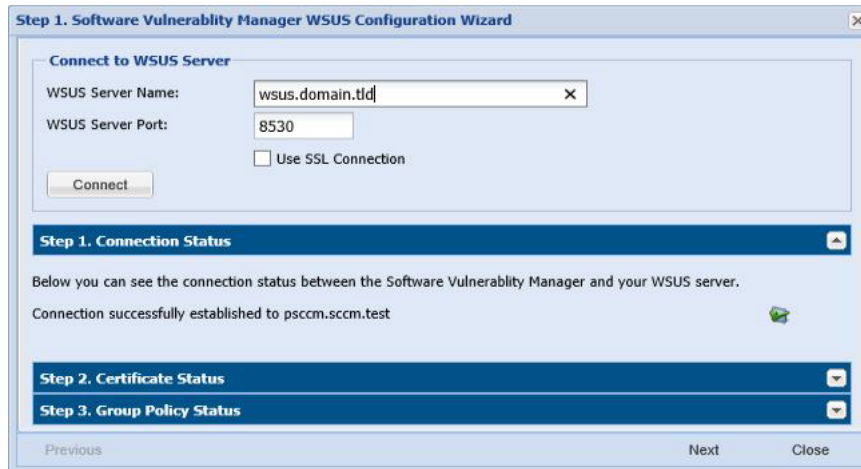
- [Step 1 – Connection Status](#)

- [Step 2 - Certificate Status](#)
- [Step 3 – Group Policy Status](#)

## Step 1 – Connection Status

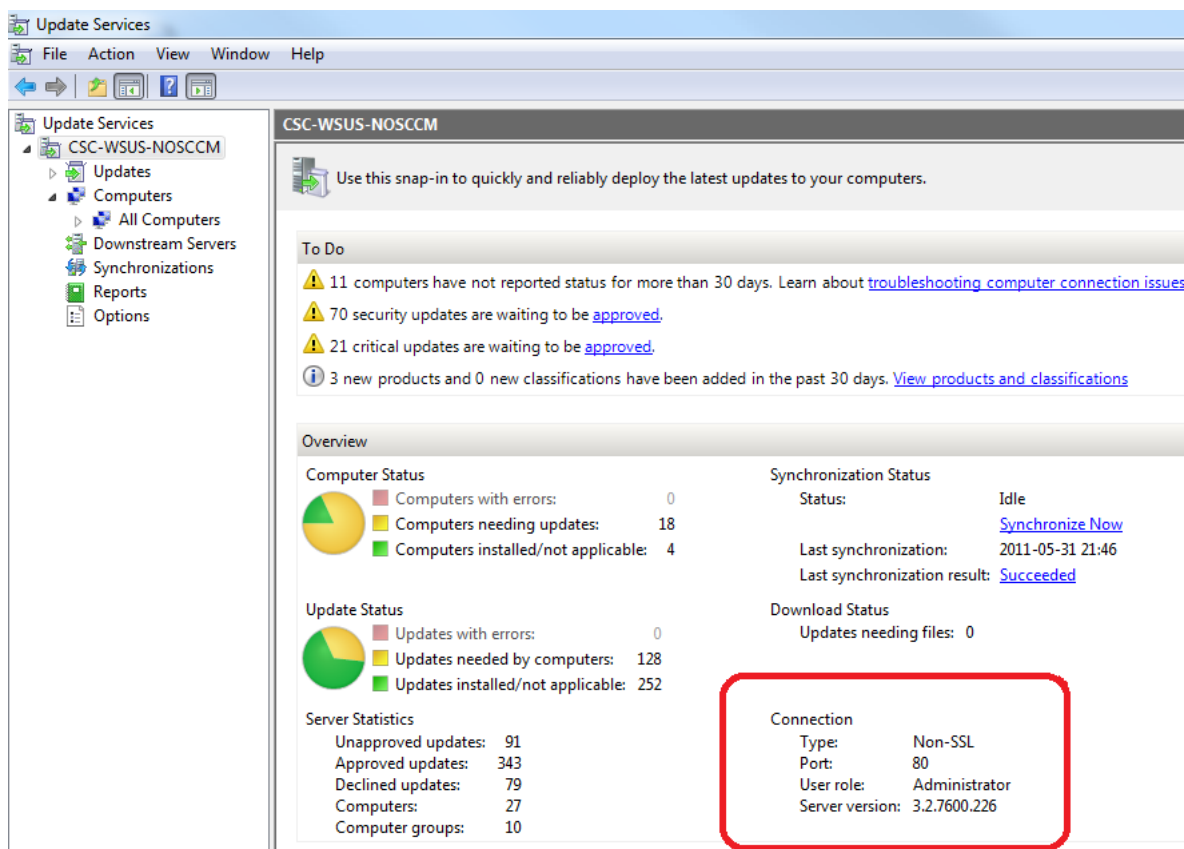
In Step 1 you should provide the relevant information (NetBIOS name and port number) for the main Upstream WSUS server. After inserting the required information, click Connect.

To check the status of the connection, expand Step 1. Connection Status.



If you are unsure of which port number to use, check your WSUS configuration as shown.





**Important** • If you have a WSUS server hierarchy with one or more Downstream Replica WSUS server(s) connected to an Upstream WSUS server, please run the Configure Downstream Servers after running the Configure Upstream Server wizard.



**Important** • The port number used to connect to your WSUS depends on your settings. Ports 80 or 8530 are commonly used when SSL is not configured. Only select the Use SSL Connection check box if your WSUS is configured to accept SSL connections.



**Important** • Refer to <http://technet.microsoft.com/en-us/library/bb633246.aspx> for further information on how to configure WSUS to use SSL.

## Step 2 - Certificate Status

A code-signing certificate is needed to publish third-party updates to WSUS/System Center so they can be deployed as patches. In this Step Software Vulnerability Manager can request the WSUS to create and install the WSUS Self-Signed Certificate.

To create and install a WSUS Self-Signed Certificate in all appropriate certificate stores, click Automatically create and install certificate.

The WSUS Self-Signing Certificate must be installed/provisioned in the following systems:

- WSUS Server

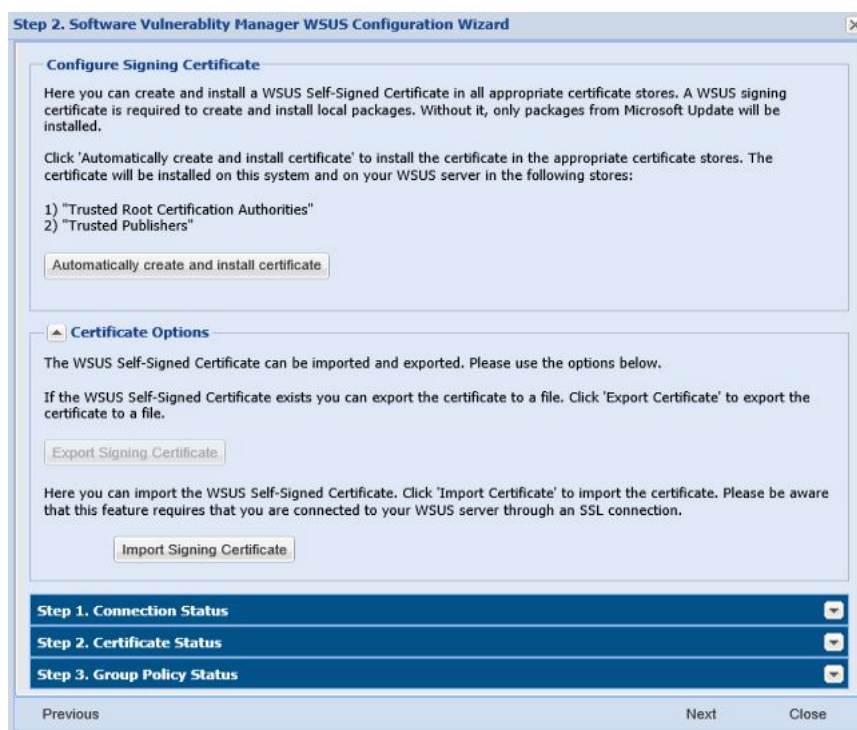
The system running Software Vulnerability Manager (note that the certificate must also be installed on the system running the Software Vulnerability Manager console)

- Clients receiving the Update

The created certificate is required and it will be used for all future publishing. Without it, only packages from Microsoft Update will be installed.

If you would like to use your own CA certificate instead of the Microsoft WSUS Self-Signing Certificate, click Import Signing Certificate.

At [Step 3 – Group Policy Status](#), the certificate created/imported in this step will be provisioned to all clients through a GPO.



**Important** • Be careful not to re-provision a signing certificate on a WSUS server that already has a signing certificate assigned. Doing so can cause issues with certificate validation at the WSUS server and target computers unless BOTH certificates (new and old) are left in the appropriate certificates stores (Trusted Publishers and Trusted Root Authorities). It can also cause issues with troubleshooting.

Once a certificate is either inserted or created it does not need to be re-created until it expires or needs to be replaced.

Click Automatically create and install certificate. The certificate will be installed on the WSUS server in the following stores:

- Trusted Root Certification Authorities
- Trusted Publishers
- WSUS – The certificate in this location must also contain the private key

Expand the Certificate Options to access the import and export certificate features.

## Step 3 – Group Policy Status

A Group Policy is required to distribute certificates and locally created packages. Software Vulnerability Manager can easily create this GPO so the WSUS Signing Certificate is distributed to all clients. Please choose to use WSUS or System Center. Once this is completed expand the Group Policy Options.

If you are creating the Software Vulnerability Manager WSUS Group Policy for the first time, proceed by selecting all the options and then click Create Group Policy.



**Important** • Besides distributing the certificate through the Software Vulnerability Manager WSUS GPO, it is also possible to provision certificate to the target computers by going to Patching > WSUS/System Center > Deployment, selecting the target hosts where the certificate is to be installed (CTRL+ mouse click for multiple selection) and then right-click and select Verify and Install Certificate.

Remote Registry service (disabled by default on Win7/Vista) should be enabled and started for the certificate to be successfully installed.

If you prefer to create your own Group Policy to distribute the WSUS Signing Certificate, please refer to [Creating the WSUS-CSI GPO Manually](#). If you prefer not to create the Software Vulnerability Manager WSUS Group Policy, the existing Windows Updates GPOs must be edited in accordance with [Setting Up Clients to Access WSUS](#).



**Important** • If you use Microsoft System Center Configuration Manager please make sure you do not select the first option Use the WSUS Server specified in Software Vulnerability Manager.



**Important** • If you already have the Windows Updates being configured through a Group Policy, we suggest you select the first 3 options in the Create a new Software Vulnerability Manager WSUS Group Policy page.



**Important** • The Software Vulnerability Manager WSUS Group Policy will be created but not linked to your domain. This way you can easily check the details of the newly created GPO and verify that the existing WSUS GPOs are correctly configured.

## Setting Up Clients to Access WSUS

If you choose not to create a new Group Policy using the Software Vulnerability Manager WSUS Group Policy wizard, please edit your existing WSUS Group Policy as follows:

1. In the Group Policy Management Console (GPMC), browse to the Group Policy Object (GPO) on which you want to configure WSUS and click Edit.
2. In the GPMC, expand Computer Configuration, expand Administrative Templates, expand Windows Components, and click Windows Update. Select:
  - Enable: Configure Automatic Updates (choose your settings)
  - Enable: Specify intranet Microsoft update service location (add the host name/IP of your WSUS server)
  - Enable: Allow signed updates from an intranet Microsoft update service location (Important – enables WSUS to distribute patches through Software Vulnerability Manager)
3. If Windows update not working, then check whether:
  - WUserver contains WSUS server, WSUSStatusServer contains WSUS server:portnumber, AcceptTrustedPublishedCerts:1 in location  
`[HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate]`  
`"WUserver"="psccm.sccm.test"`  
`"WUStatusServer"="psccm.sccm.test:8530"`  
`"ElevateNonAdmins"=dword:00000001`  
`"AcceptTrustedPublisherCerts"=dword:00000001`
  - In registry location, [HKEY\_LOCAL\_MACHINE\SOFTWARE\Policies\Microsoft\Windows\WindowsUpdate\AU], check "UseWUserver"=1



**Important** • For installing the WSUS server in your environment we recommend reading the Step by Step Installation Guide provided by Microsoft:

<http://technet.microsoft.com/en-us/wsus/default.aspx>

## Third-Party Integration

Software Vulnerability Manager provides you with the capability of publishing packages using third-party patch deployment solutions, for example Altiris. To support this feature, Flexera has enhanced the package export feature. The exported xml file contains additional information that can be helpful in creating packages in other tools, including:

- The version numbers
- The executable itself
- The vulnerability/criticality

Flexera has retained the simplicity of the xml file by giving you the options to exclude large binary files and applicability paths from the file, in the form of check boxes in the package creation wizard. To perform a complete export, clear the Do not include package files check box during Step 4 of the SPS Package Creation Wizard.

In order for Software Vulnerability Manager to integrate with other patch deployment solutions, you need to create a configuration file, a script file and an applicability check script file:

- Configuration file. The configuration file is actually a representative of the tool and a visual integration between Software Vulnerability Manager and that tool. The file is an xml file that should contain the tool name, script name and the input/setting fields required to configure the settings for the tool (text fields, radio buttons and check boxes are supported). When Software Vulnerability Manager is launched it checks for the presence of any configuration file and, if there is a valid configuration file in the Extensions folder in the Software Vulnerability Manager path, it dynamically loads a GUI under the Patching menu of Software Vulnerability Manager. The configuration file also acts as an input file for the script.
- Script file. This script file corresponds to the SDK that the user has created to create and dispatch the package in the respective tool. The script file can be an executable, Java, VB, Python, or Perl script. Click Publish to execute the script file.
- Applicability Check script file. This script file runs the sps.exe on the computer if the applicability checks are cleared. This file is published together with the package to establish if the package is applicable to the system or not.



**Important** • Running the script is a very strong feature. Use caution and ensure the sanity of the script file before publishing.

## Create and Publish the Package



### Task

#### To create and publish the package:

1. Place the configuration and script files in the Extensions folder. The Extensions folder should be created in the same folder as the csi.exe.
2. Launch Software Vulnerability Manager. If the configuration file format is valid, a configuration option will be visible under the Patching menu (for example, Altiris Configuration).
3. Click the configuration option to open a page where input and settings can be provided and saved.
4. Go to the SPS creation wizard. Complete all the package wizard fields or import a package. In [Step 4 of 4: Applicability Criteria - Rules](#), there will be radio buttons allowing you to select the tool that you want to publish the package with. There will be as many selection options as there are valid configuration files.

5. Clicking Publish for any tool other than WSUS will run the script placed in the Extensions folder and named in the xml file.
6. Software Vulnerability Manager waits for the script to finish and, depending upon the execution of the script being successful or not, displays a message.
7. After successful publishing, the package can be seen in the respective tool.

## Patch Template

The Software Vulnerability Manager Patching tab includes a Patch Template feature so that users can save a template of their patches for a product. With the Patch Template feature, the user can prepopulate Flexera's Software Package System (SPS) four-step deployment process and publish directly to WSUS using previously selected options.

Template Name	Product Name	Vendor	Patched Ver...	Minimum	Architecture	Updated On	Subscribed	Subscription
7-zip, version 18.x	7-zip	Unknown Ve...	18.x	9.0.0.0	Windows64-bit	15th Apr, 20...	Yes	15th Apr, 20...
VLC Media Player 2.x	VLC Media ...	VideoLAN	3.0.13	2.0.0.0	Windows32-bit	26th Mar, 20...	No	-
firefox	Mozilla Firof...	Mozilla Foun...	92.x / 91.x E...	45.0.0.0	Windows32-bit	1st Dec, 201...	No	-
iTunes1	Apple iTunes...	Apple	12.9.4	12.2.0.0	Windows32-bit	1st Dec, 201...	No	-

### Creating a Patch Template

To create a patch template, perform the following steps.



#### Task

#### To create a Patch Template:

1. From the **Patching > Flexera Patching System (SPS)** tab, select an insecure product from the grid. Right click and choose an option from the context menu. For example, select **Create Update Package**.
2. In Step 1 of 4 of the SPS wizard (**Package Configuration**), select the appropriate SPS Installer Parameters and choose whether you want to edit the package contents. Click **Next** when done.

**Step 1 of 4: Package Configuration**

Use this form to set the name and description of the SPS package, or edit the properties of an existing one. In the following steps you will configure the package contents and parameters before creating and publishing the package, or exporting it as an XML formatted file.

**Reference Id (Optional)**

Here you can assign an Id to this package if desired.

Reference Id:

**SPS Installer Parameters (Optional)**

Here you can configure optional parameters you want to pass to the installer. This set of options is unique to this product. Some parameters have warning message associated that should be read and understood before moving forward

Configure Package: ☒ Default (?)

Behavior:

☐ Disable checking for running Chrome processes (?)

☐ Kill any running Chrome processes (?)

Select Installer: ☒ Install Enterprise version

☐ Install Stable version

**Edit Package Content (Optional)**

If you choose to edit the package contents, in the next Step of the wizard you will have the option to view/edit the package contents. If not, you will be directed immediately to Step 3.

☐ Edit Package Content

**Vendor & Product Naming**

Choose this option to overcome limitations in the number of categories that can be published in the SCCM. This will set the vendor attribute of the package to *Flexera* and strip the product version from the product name.

☐ Use Flexera Custom Naming

Previous | **Next** | Publish | Cancel

- Step 2 of 4 of the SPS wizard (**Package Contents**) lists the latest files to include in the package. Click **Next**.

**Step 2 of 4: Package Contents**

Here you configure the package contents, including the execution script included, and the files included.

**Files To Include**

Configure the files to include in this package. The grid below shows the files that are currently scheduled to be included, and if they will be downloaded dynamically (i.e., in the case of URLs) or if they are local files. You can add additional files via the 'Add File' button, as well as choose from additional language packages available via the 'Show Localised Files' button. To remove a file, right-click and select 'Remove'.

File(s) to include in the package	Status
http://dl.secunia.com/SPS/GoogleChrome_66.0.3359.139_64-bit_SPS.exe	To Be Dynamically Downloaded

- In Step 3 of 4 of the SPS wizard (**Applicability Criteria - Paths**), select the appropriate paths to save the package. Click **Next**.



**Note** • The Patch Template will always shows paths based on the latest assessment.

**Step 3 of 4: Applicability Criteria - Paths**

Here you can define the path-based applicability rules for this package. Below you will find any relevant paths already found or configured for the package. You can deselect paths in the grid or add paths as needed via the "Add Path" button. Check the "Advanced Options" box to enable additional options in the "Add Path" dialog and to show advanced options in the grid.

☐ Show Advanced Options

**Always Install Option**

The purpose of this option is to allow installations of new software. For custom packages which are not updates to existing installations, you can bypass the "isInstallable" WSUS rule which will ignore all system paths when deciding if this package can be applied. Note - this will not bypass the rules for checking if something is already installed, or is superseded by a more recent version.

☐ Mark Package as "Always Installable"

**Minimum Version Option**

The purpose of this option is to allow for updating of older products. Normally one updates a product to its secure version within the same major version. You can alter this behaviour by specifying a custom minimum version. Note: the version you enter must also be supported by the installer itself - you cannot enter arbitrary values here.

Minimum Version:

Path	Information
<input checked="" type="checkbox"/> C:\Program Files (x86)\Google\Chrome\Application\chrome.exe	1

5. In Step 4 of 4 of the SPS wizard (**Applicability Criteria - Rules**), select the appropriate **System Applicability**, **Special Rules**, and **Language Settings**.

**Step 4 of 4: Applicability Criteria - Rules**

Here you configure the applicability rules for the package.

**System Applicability**

Configure the system type(s) the package will be applied to.

Apply Package To: ☐ 32-bit Systems Only  
☒ 64-bit Systems Only  
☐ Both 32-bit and 64-bit Systems

**Special Rule**

The following special rule is available to configure:

☐ Reboot is required after package has been installed.

**Language Settings**

Configure package applicability rules based on language:

☐ Only make package applicable to computers with one of the selected languages.

Select Languages: 

Language
Arabic
Chinese (Hong Kong SAR)
Chinese - (Simplified)
Chinese - (Traditional)
Czech
Danish

6. In the **Patch Template (Optional)** field, enter the Template Name and select **Save Template**. Click **Publish** to create the new template, which is saved under the **Patch Template** tab.





**Note** • Providing a template name while publishing a package to WSUS will publish and create a template at the same time. If the template name is empty, it will only publish the package as a regular workflow.

A patch template only needs to be created once for the life of the product, provided that there are no changes to the product's architecture (32-bit versus 64-bit) or to the SPS Installer Parameters from **Step 1 of 4: Package Configuration**. Over time, the product's Patched Version listed under the Flexera Package System (SPS) menu will increase. Patch Templates automatically update up to within three patched versions as listed under the Flexera Package System (SPS) menu. After three patched versions, you can edit the Patch Template to deploy the latest patched version to your system.

Template Name	Product Name	Vendor	Patched Ver...	Minimum	Architecture	Updated On	Subscribed	Subscription
7-zip, version 18.x	7-zip	Unknown Ve...	18.x	9.0.0.0	Windows64-bit	15th Apr, 20...	Yes	15th Apr, 20...
VLC Media Player 2.x	VLC Media ...	VideoLAN	3.0.13	2.0.0.0	Windows32-bit	26th Mar, 20...	No	-
firefox	Mozilla Firof...	Mozilla Foun...	92.x / 91.x E...	45.0.0.0	Windows32-bit	1st Dec, 201...	No	-
iTunes1	Apple iTune...	Apple	12.9.4	12.2.0.0	Windows32-bit	1st Dec, 201...	No	-

## Editing a Patch Template or Publishing From a Patch Template

To edit a patch template or publish from a patch template, perform the following steps.



**Task** To edit a Patch Template or to publish from a Patch Template:

1. From the **Patching > Patch Template** tab, select a template and select **Publish/Edit Template** from the context menu.

Template Name	Product Name	Vendor	Patched Ver...	Minimum	Architecture	Updated On	Subscribed	Subscription
7-zip	7-zip	Unknown Ve...	18.x	9.0.0.0	Windows64-bit	15th Apr, 20...	Yes	15th Apr, 20...
VLC	VLC Media ...	VideoLAN	3.0.13	2.0.0.0	Windows32-bit	26th Mar, 20...	No	-
firefox	Mozilla Firof...	Mozilla Foun...	92.x / 91.x E...	45.0.0.0	Windows32-bit	1st Dec, 201...	No	-
iTunes	Apple iTune...	Apple	12.9.4	12.2.0.0	Windows32-bit	1st Dec, 201...	No	-

2. Step 1 of 4 of the Flexera SPS wizard will open with the SPS parameters prefilled. From the same SPS wizard, you can either publish the package to various channels or you can save only the template.
3. To update the Patch Template to the latest patched version:
  - a. Select **Edit Package Content** in the Edit Package Content field and click **Next**.

**Step 1 of 4: Package Configuration**

Use this form to set the name and description of the SPS package, or edit the properties of an existing one. In the following steps you will configure the package contents and parameters before creating and publishing the package, or exporting it as an XML formatted file.

**SPS Installer Parameters (Optional)**

Here you can configure optional parameters you want to pass to the installer. This set of options is unique to this product. Some parameters have warning message associated that should be read and understood before moving forward

Configure Package: ☒ Default (?)

Behavior:

☐ Disable checking for running Chrome processes (?)

☐ Kill any running Chrome processes (?)

Select Installer: ☒ Install Enterprise version

☐ Install Stable version

**Edit Package Content (Optional)**

If you choose to edit the package contents, in the next Step of the wizard you will have the option to view/edit the package contents. If not, you will be directed immediately to Step 3.

☒ Edit Package Content



**Important** • If you need to publish the package from the template without updating the template, update the **Package Name** in Step 1 of 4 of the SPS wizard to identify the package version that you deploy to your system. The package will be published with the updated settings.

- b. Confirm the updated patched version file appears under **Files to Include** in Step 2 of 4 of the Flexera SPS wizard and click **Next**.

**Step 2 of 4: Package Contents**

Here you configure the package contents, including the execution script included, and the files included.

**Files To Include**

Configure the files to include in this package. The grid below shows the files that are currently scheduled to be included, and if they will be downloaded dynamically (i.e., in the case of URLs) or if they are local files. You can add additional files via the 'Add File' button, as well as choose from additional language packages available via the 'Show Localised Files' button. To remove a files, right-click and select 'Remove'.

File(s) to include in the package	Status
http://dl.secunia.com/SPS/GoogleChrome_66.0.3359.139_64-bit_SPS.exe	To Be Dynamically Downloaded

- c. When Step 3 of 4 of the Flexera SPS wizard appears, click **Next**.
- d. When Step 4 of 4 of the Flexera SPS wizard appears, click **Publish**.

## Deleting a Patch Template

To delete a Patch Template, perform the following steps.



### Task

#### To delete a Patch Template:

1. From the **Patching > Patch Template** tab, select a template and select **Delete Template** from the context menu.
2. Select **Yes** or **No** to confirm whether or not to delete the Patch Template.

## Publishing a Patch Template to WSUS

To publish a Patch Template to WSUS, perform the following steps.



### Task

#### To publish a Patch Template to WSUS:

1. From the **Patching > Patch Template** tab, select the template to be published to WSUS. Right click and select **Publish/Edit Template** from the context menu.
2. When Step 1 of 4 of the SPS wizard (**Package Configuration**) appears, update the **Package Name** to indicate this package is for WSUS publishing and click **Next**.

#### Step 1 of 4: Package Configuration

Use this form to set the name and description of the SPS package, or edit the properties of an existing one. In the following steps you will configure the package contents and parameters before creating and publishing the package, or exporting it as an XML formatted file.

##### Package Name

The package will be created with the following name. Choose a new name if desired.

Name: Update Google Chrome, version 66.x, Moderately Critical

3. When Step 3 of 4 of the SPS wizard (**Applicability Criteria - Paths**) appears, click **Next**.
4. In Step 4 of 4 of the SPS wizard (**Applicability Criteria - Rules**), select **WSUS** for the publishing option and click **Publish**.

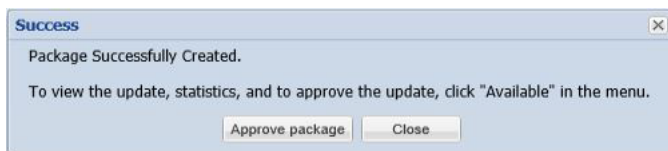
#### Step 4 of 4: Applicability Criteria - Rules

##### Publish Options

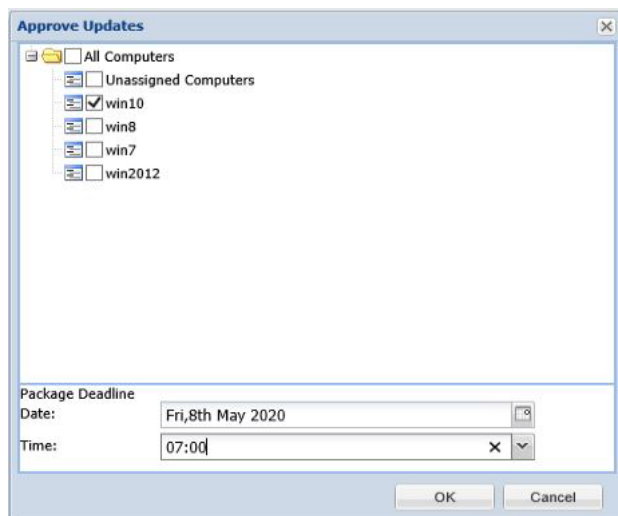
Select option for publishing Flexera package

- Publish package using:
- ☐ WSUS (via ActiveX)
  - ☒ Schedule package to Patch Daemon
  - ☐ Altiris
  - ☐ Export Patch Script
  - ☐ Save Template

5. The **Attempting to Publish Package - Please Wait** status appears. After the WSUS package is successfully created, a **Success** pop-up window appears. Click **Approve package**.



6. When the **Approve Updates** pop-up window appears, select the appropriate computers to deploy the WSUS package to, select the appropriate date and time to deploy the WSUS package, and click **OK**.



7. When the **Success - Package successfully approved** pop-up window appears, click **OK**.

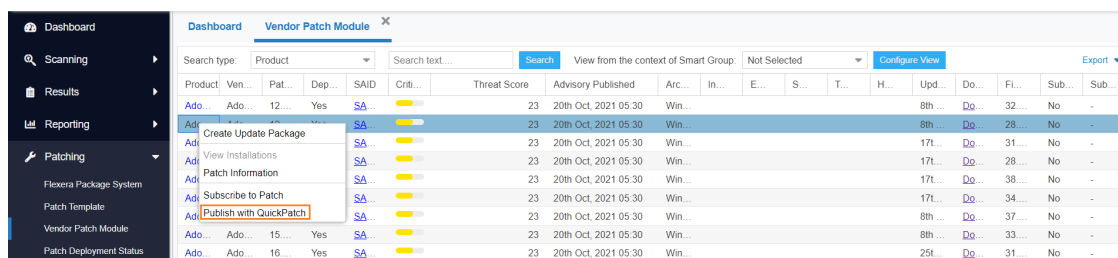


8. You can confirm the WSUS package listing under **Patching > WSUS / System Center > Available Packages**.

## QuickPatch

This is a new and quick way for non-IE browsers to publish patches from SVM to an end-point management system with no dependency on ActiveX. QuickPatch publishes patches to end-point management system via Patch Daemon using defaults (no customizations).

To do so, right click on any SPS template or VPM patch and select **Publish with QuickPatch** from the context menu.



**Figure 9-5:** Select Publish with QuickPatch from the Context Menu

In the **Publish with QuickPatch** dialog box, select Silent Parameters (if required), and then click **Publish**.

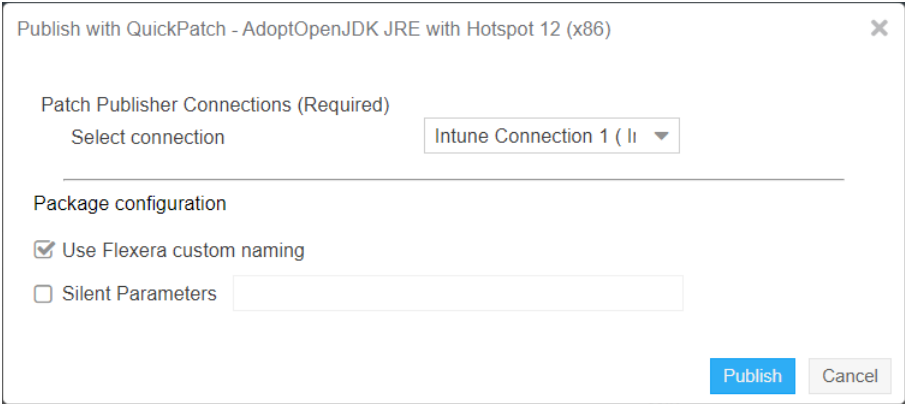


Figure 9-6: Click Publish



**Note** • If you have installed the Patch Publisher, then you can select the **Patch Publisher Connections** for the Quick Patch publish.

Click **Ok** and agree the confirmation dialog which appears.

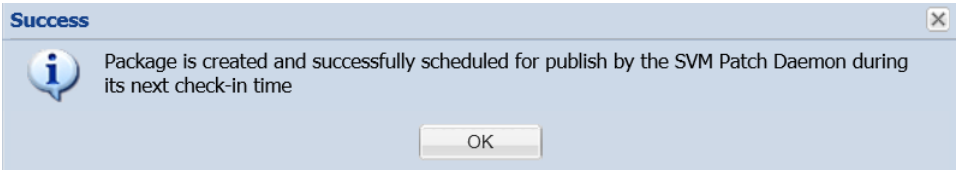


Figure 9-7: Click Ok

The selected patch will be published to Patch Daemon.

Once the patch published, status in the **Patch Deployment status** will appear as **Success**.

If the same version of patch is published, then an error popup will be shown that **Already sent to Patch Daemon**.



**Note** • Patches are published based on the versions.

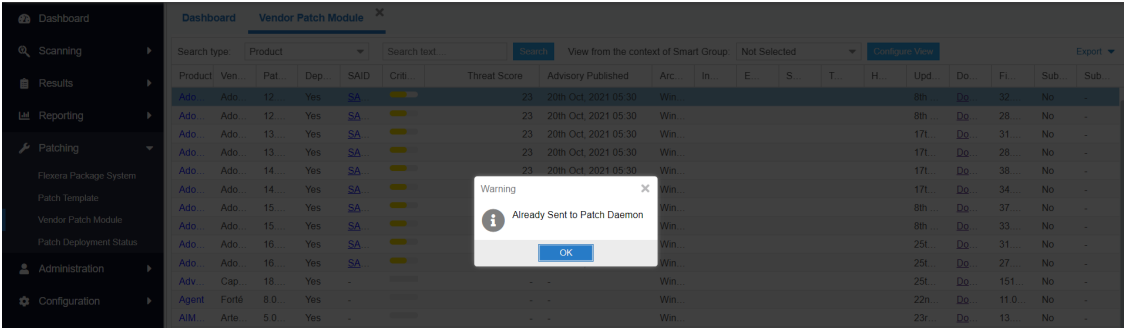
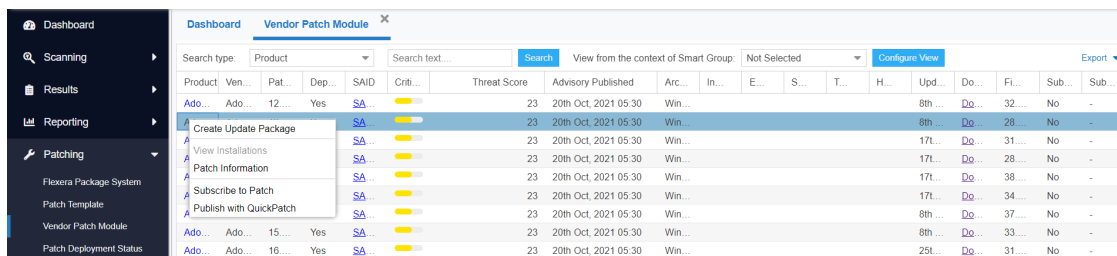


Figure 9-8: Error popup appears

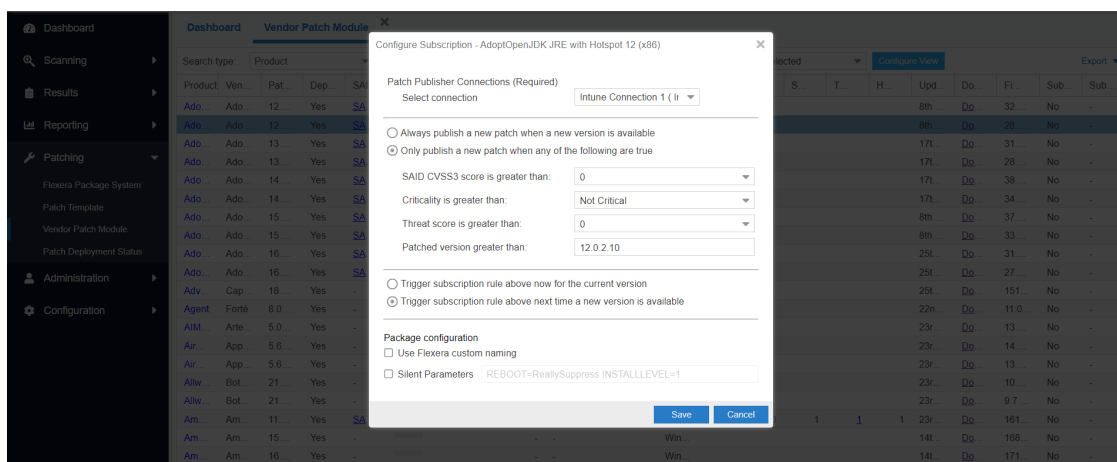
# Patch Automation

With Software Vulnerability Manager, you can automate publishing of patches. To do so, right click on any SPS template or VPM patch and select **Subscribe to Patch** from the context menu.



**Figure 9-9:** Selecting Subscribe to Patch from the Context Menu

On the **Configure Subscription** dialog box, you can choose to always publish a new patch when a new version becomes available, or you can choose to only automate publishing a new patch when certain criteria are met (recommended).



**Figure 9-10:** Configure Subscription Dialog Box

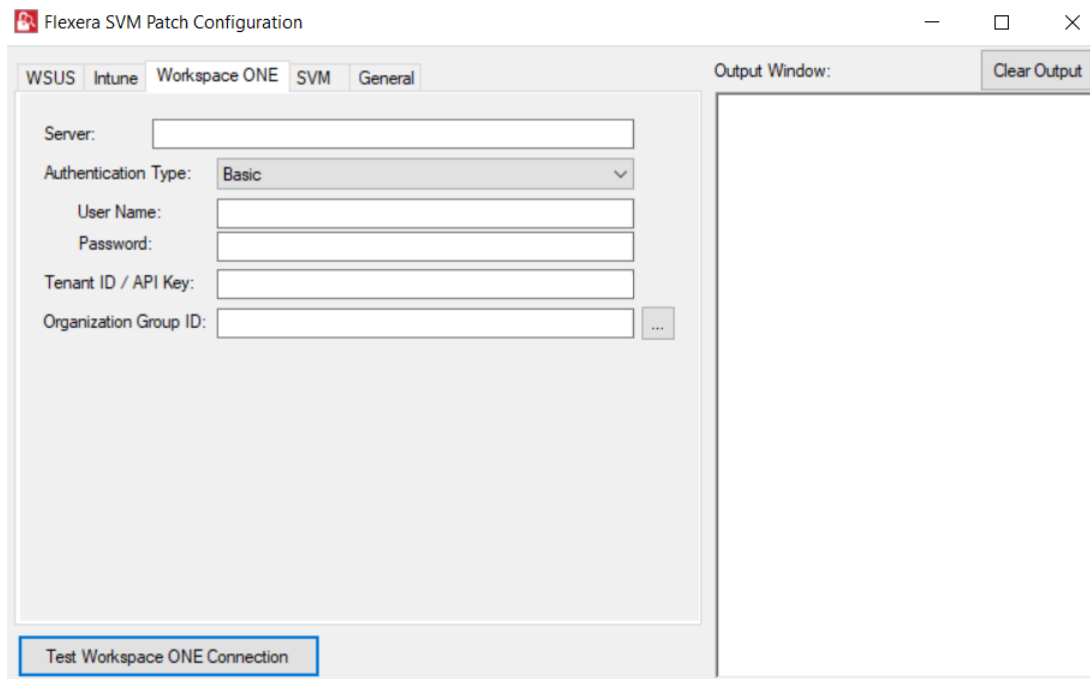
Patch automation is delivered via a new version of the Flexera SVM Patch Configuration (Version 2.x) tool, which is part of the Software Vulnerability Manager Client Toolkit. For more information on the toolkit, visit the [SVM Toolkit](#) blog in the Flexera Community.

The SVM Toolkit installer contains updates to the Flexera SVM Patch Configuration tool as well as some optional tools documented in our online community. The SVM Toolkit installer can be downloaded at:

<https://resources.flexera.com/tools/SVM/SVMClientToolkitInstall.msi>



**Note** • If you are already have the SVM Toolkit installed, the installer will upgrade you to the latest version.



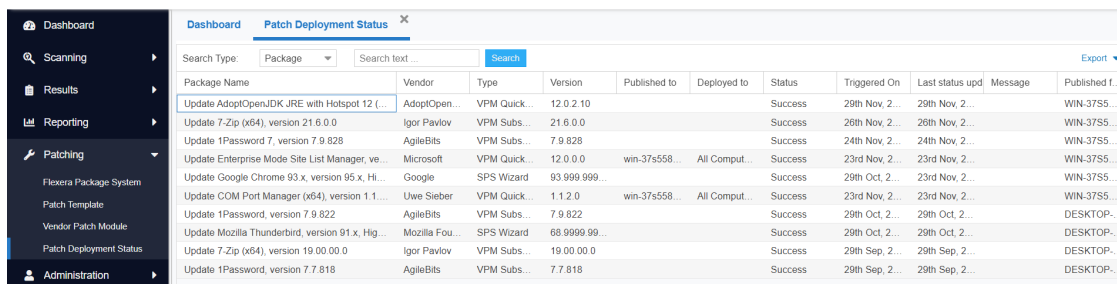
The dialog box is titled "Flexera SVM Patch Configuration". It has tabs for "WSUS", "Intune", "Workspace ONE", "SVM", and "General". The "SVM" tab is selected. The form contains the following fields:

- Server: [Text Field]
- Authentication Type: Basic (Dropdown)
- User Name: [Text Field]
- Password: [Text Field]
- Tenant ID / API Key: [Text Field]
- Organization Group ID: [Text Field] with a dropdown arrow

At the bottom left is a button labeled "Test Workspace ONE Connection". On the right is an "Output Window" with a "Clear Output" button.

**Figure 9-11:** Flexera SVM Patch Configuration Dialog Box

You can see the status and details of patches published automatically on a new page named **Patch Deployment Status**, which is opened by selecting **Patch Deployment Status** on the **Patching** menu.



The screenshot shows the "Patch Deployment Status" page. It has a sidebar menu with options: Dashboard, Scanning, Results, Reporting, Patching (selected), Flexera Package System, Patch Template, Vendor Patch Module, Patch Deployment Status, and Administration. The main area has a search bar and a table of patch deployment records.

Package Name	Vendor	Type	Version	Published to	Deployed to	Status	Triggered On	Last status upd	Message	Published f...
Update AdoptOpenJDK JRE with Hotspot 12 (...)	AdoptOpen...	VPM Quick...	12.0.2.10			Success	29th Nov, 2...	29th Nov, 2...		WIN-3755...
Update 7-Zip (x64), version 21.6.0.0	Igor Pavlov	VPM Subs...	21.6.0.0			Success	26th Nov, 2...	26th Nov, 2...		WIN-3755...
Update 1Password 7, version 7.9.828	AgileBits	VPM Subs...	7.9.828			Success	24th Nov, 2...	24th Nov, 2...		WIN-3755...
Update Enterprise Mode Site List Manager, ve...	Microsoft	VPM Quick...	12.0.0.0	win-375558...	All Comput...	Success	23rd Nov, 2...	23rd Nov, 2...		WIN-3755...
Update Google Chrome 93.x, version 95.x, Hi...	Google	SPS Wizard	93.999.999...			Success	29th Oct, 2...	23rd Nov, 2...		WIN-3755...
Update COM Port Manager (x64), version 1.1...	Uwe Sieber	VPM Quick...	1.1.2.0	win-375558...	All Comput...	Success	23rd Nov, 2...	23rd Nov, 2...		WIN-3755...
Update 1Password, version 7.9.822	AgileBits	VPM Subs...	7.9.822			Success	29th Oct, 2...	29th Oct, 2...		DESKTOP...
Update Mozilla Thunderbird, version 91.x, Hig...	Mozilla Fou...	SPS Wizard	68.9999.99...			Success	29th Oct, 2...	29th Oct, 2...		DESKTOP...
Update 7-Zip (x64), version 19.00.00.0	Igor Pavlov	VPM Subs...	19.00.00.0			Success	29th Sep, 2...	29th Sep, 2...		DESKTOP...
Update 1Password, version 7.7.818	AgileBits	VPM Subs...	7.7.818			Success	29th Sep, 2...	29th Sep, 2...		DESKTOP...

**Figure 9-12:** Patch Deployment Status Page

All the patch level activities are also recorded in the Activity Log, which is opened by selecting **Activity Log** on the **Configuration** menu.

Activity Name	Activity Status	User	Time	Activity Information	Host	Priority
Package Creation	Successful	P4_sushma	16:46 29th Nov, 20...	Update AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0.2.10...	223.31.69.70	Medium
VPM QuickPatch	Successful	P4_sushma	16:41 29th Nov, 20...	QuickPatch: AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0...	223.31.69.69	Medium
User Login	Successful	P4_sushma	16:04 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	P4_sushma	13:23 29th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	P4_sushma	13:23 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	P4_sushma	17:24 28th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	P4_sushma	17:24 28th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Delete Host	Successful	P4_sushma	20:04 27th Nov, 20...	2 Hosts Deleted	223.31.69.69	Low
User Login	Successful	P4_sushma	19:38 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	P4_sushma	17:55 27th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	P4_sushma	17:55 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Package Creation	Successful	P4_sushma	22:46 26th Nov, 20...	Update 7-Zip (x64), version 21.6.0.0 (SVM Patch Daemon)	223.31.69.70	Medium
User Logout	Successful	P4_sushma	17:48 26th Nov, 20...	Logout (Software Vulnerability Manager)	14.143.29.100	Low
User Account Crea...	Successful	P4_sushma	17:46 26th Nov, 20...	Created user gauri_p2	14.143.29.100	High
User Login	Successful	P4_sushma	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	P4_sushma	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	P4_sushma	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	P4_sushma	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	P4_sushma	17:26 26th Nov, 20...	Login (Software Vulnerability Manager)	157.45.20.90	Medium
User Login	Successful	P4_sushma	17:26 26th Nov, 20...	Authentication by cached UID	157.45.20.90	High

Figure 9-13: Activity Log Page

## Unsubscribe Automatic publishing of the Patches

To unsubscribe automatic publishing of the patches, right click on any subscribed VPM Patch, and then select **Edit Subscription** from the context menu.

Product	Ven...	Pat...	Dep...	SAID	Criti...	Threat Score	Advisory Published	Arc...	In...	E...	S...	T...	H...	Upd...	Do...	Fl...	Sub...	Sub...
Ado...	Ado...	12...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	8th...	Do...	176...	No	-	-	-	-	-	-	-
Ado...	Ado...	12...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	8th...	Do...	176...	No	-	-	-	-	-	-	-
Ado...	Ado...	13...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	17t...	Do...	178...	No	-	-	-	-	-	-	-
Ado...	Ado...	13...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	17t...	Do...	160...	No	-	-	-	-	-	-	-
Ado...	Ado...	14...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	17t...	Do...	175...	No	-	-	-	-	-	-	-
Ado...	Ado...	14...	Yes	SA...	23	20th Oct, 2021 05:30	Win...	17t...	Do...	157...	No	-	-	-	-	-	-	-

Figure 9-14: Select Edit Subscription

On **Configure Subscription** dialog box, select **Unsubscribe**.



Configure Subscription - 7-zip

Subscription started on 15th Apr, 2021 15:10

☒ Always publish a new patch when a new version is available  
☐ Only publish a new patch when any of the following are true

SAID CVSS3 score is greater than:	0
Criticality is greater than:	Not Critical
Threat score is greater than:	0
Patched version greater than:	18.5.0.0

☒ Trigger subscription rule above now for the current version  
☐ Trigger subscription rule above next time a new version is available

Package configuration  
☒ Use Flexera custom naming

Unsubscribe Save Cancel

**Figure 9-15:** Select Unsubscribe

Click **Ok** and agree the confirmation dialog which appears.

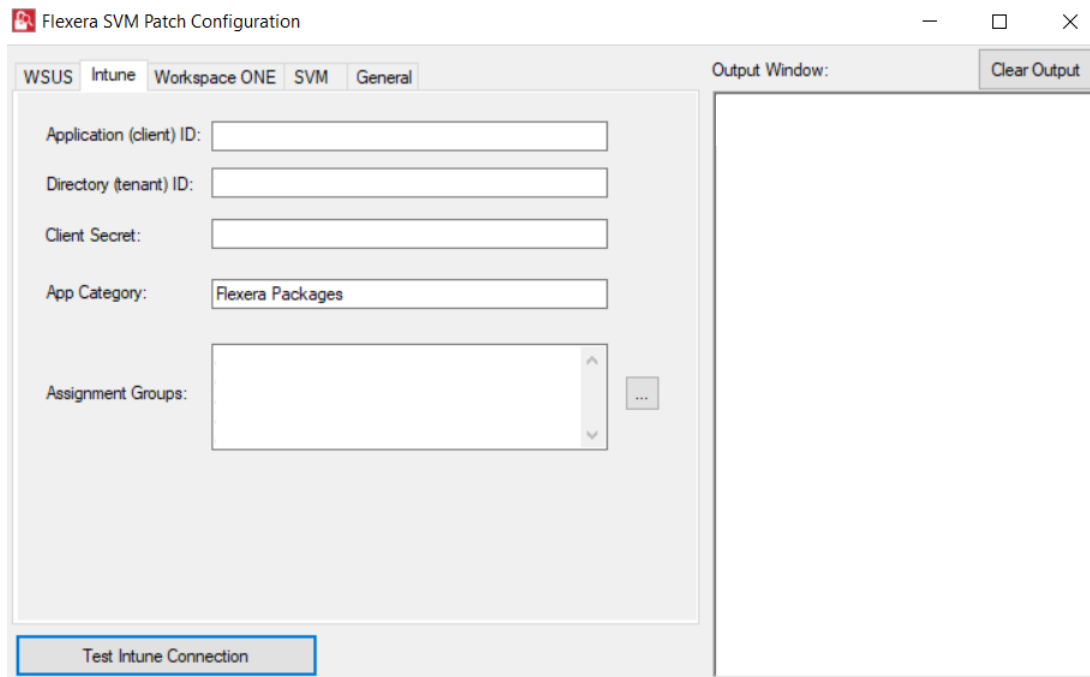
## Intune Publishing

Software Vulnerability Manager (Cloud Edition) can now publish SPS/VPM patches to Microsoft Intune.

This new capability requires a new version of patch daemon, released as a part of SVM Toolkit that can be downloaded at [SVMClientToolkitInstall.msi](#)

To publish patches to Intune, it will be necessary to configure patch daemon with valid Intune credentials and token. For more details, see [Set up a Distribution Connection in Flexera SVM Patch Configuration for Microsoft Intune](#).

For Intune publishing, you can now choose a group or multiple groups and make assignments for end point deployments in the SVM Patch Configuration. For more details, see [Assignment Groups](#).



**Figure 9-16:** Intune Tab

Once this is setup, you can use either [Patch Automation](#) to publish SPS/ VPM patches to Intune.



**Note** • Patch daemon convert the patch to intunewin format before publishing.



**Note** • The Patch Daemon may be installed on any workstation or server. There are two prerequisites:

- For Windows 10 RSAT must be installed which can be obtained here <https://www.microsoft.com/en-us/download/details.aspx?id=45520>
- For Windows 8.1 RSAT must be installed which can be obtained here <https://www.microsoft.com/en-us/download/details.aspx?id=39296&displaylang=en>
- Minimum version of .Net 4.7.2 must be installed.

## Set up a Distribution Connection in Flexera SVM Patch Configuration for Microsoft Intune

To obtain the required credentials to set up a distribution connection for Microsoft Intune, perform the following process.

- [App Registration](#)
- [Create Client Secret](#)
- [API Permissions](#)

## App Registration

To register an application perform the following steps.



### Task

#### To register an application:

1. Obtain login credentials for Intune services on Microsoft Azure.
2. Log in to Microsoft Azure using the obtained credentials.

<https://azure.microsoft.com/en-in/account/>

3. Once logged in, from the list of available Azure services, choose **Azure Active Directory**.

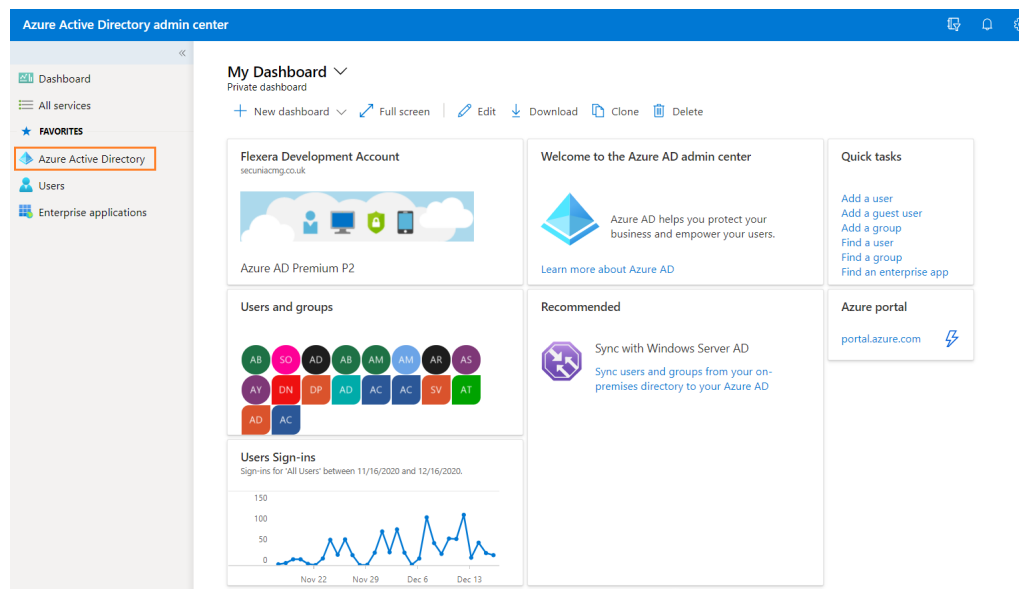
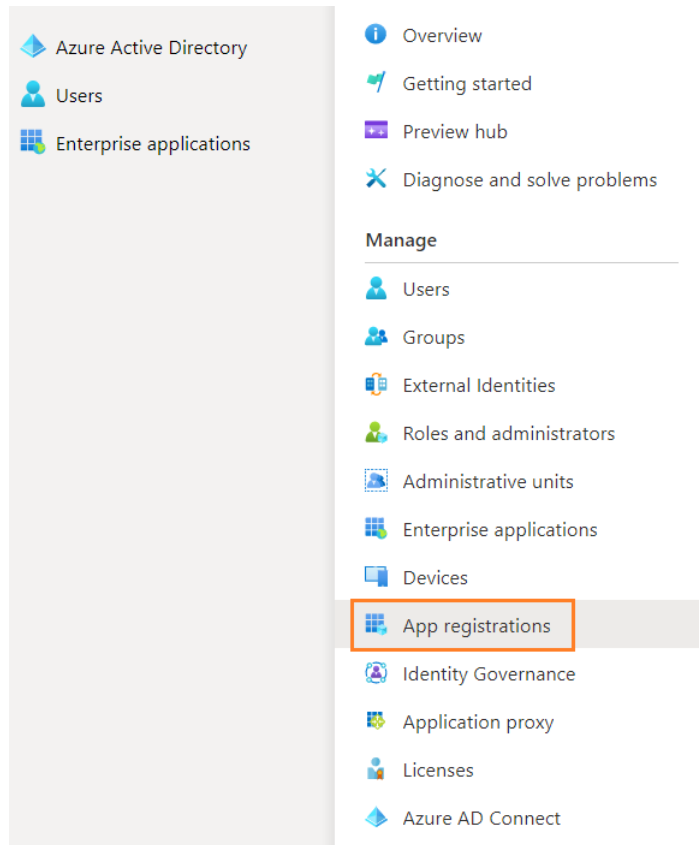


Figure 9-17: Choose Azure Active Directory

4. After selecting, it navigates to overview page of the **Dashboard**, select **App registrations** in the left panel.



**Figure 9-18:** Select App Registrations

5. Click on **New registration** and enter values to complete the registration.

Microsoft Azure

Search resources, services, and docs (G+/)

Home > Flexera, Inc. >

## Register an application

\* Name

The user-facing display name for this application (this can be changed later).

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory only (Flexera, Inc. only - Single tenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)

☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

By proceeding, you agree to the Microsoft Platform Policies

Register

Figure 9-19: New Registration page

- Click **Register**. The new registered application will be listed.
- Click on the registered account to get Intune connection details like **Application (client) ID** and the **Directory (tenant) ID**, which will be used later for authentication purposes.

Delete Endpoints Preview features

Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer). →

### Essentials

Display name	: [redacted]	Supported account types	: My organization only
Application (client) ID	: [redacted]	Redirect URIs	: 0 web, 0 spa, 2 public client
Directory (tenant) ID	: [redacted]	Application ID URI	: Add an Application ID URI
Object ID	: [redacted]	Managed application in I...	: Intune

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to provide technical support and security updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

### Call APIs

Build more powerful apps with rich user and business data from Microsoft services and your own company's data sources.

### Documentation

- Microsoft identity platform
- Authentication scenarios
- Authentication libraries
- Code samples
- Microsoft Graph
- Glossary
- Help and Support

Figure 9-20: Intune Connection details page

## Create Client Secret

To obtain client secrets for the registered account, perform the following steps.



### Task

#### To obtain client secrets:

1. On the application account details page, select **Certificates & secrets** from the left panel.
2. To get new client secret, click **New client secret**.
3. Provide a description to describe your client secret, choose the expiration date you wish to set, and then click **Add**. The Client secret will then be listed in the Client Secrets section.

Search (Ctrl+/) << Got feedback?

Overview  
Quickstart  
Integration assistant

Manage  
Branding  
Authentication  
Certificates & secrets  
Token configuration  
API permissions  
Expose an API  
App roles | Preview  
Owners  
Roles and administrators | Preview  
Manifest

**Add a client secret**

Description

Expires  
☒ In 1 year  
☐ In 2 years  
☐ Never

Add Cancel

**Client secrets**

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	ID
-------------	---------	-------	----

Figure 9-21: Click Add

4. The Client secret will then be listed in the Client Secrets section, copy the client secret Value, as it will only be visible and available to the user now.

Overview  
Quickstart  
Integration assistant

Manage  
Branding  
Authentication  
Certificates & secrets  
Token configuration  
API permissions  
Expose an API  
App roles | Preview  
Owners  
Roles and administrators | Preview  
Manifest

Support + Troubleshooting  
Troubleshooting  
New support request

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

**Certificates**

Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.

Upload certificate

Thumbprint	Start date	Expires	ID
No certificates have been added for this application.			

**Client secrets**

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

+ New client secret

Description	Expires	Value	ID
ApiKey2	1/21/2021	q4*****	2025eaf7-2a5d-4110-bb11-07f1-81721215

Figure 9-22: Client Secrets details

## API Permissions

To obtain API permissions for the registered application, perform the following steps:



### Task

#### To obtain API permissions:

1. Select the registered account.
2. Select **API permissions** from left navigation panel.
3. Click **Add a permission**. The **Request API permissions** panel appears, select **Microsoft Graph**.


### Request API permissions



Select an API

...

Commonly used Microsoft APIs


**Microsoft Graph**  
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.

**Figure 9-23:** Select Microsoft Graph

4. In the Microsoft Graph, select **Application Permissions**.
  - a. **Device Management Permission**—Under **DeviceManagementApps**, select **DeviceManagementApps.Read.All** and **DeviceManagementApps.ReadWrite.All**, and then click **Add permissions**.

# Request API permissions

[All APIs](#)



Microsoft Graph

<https://graph.microsoft.com/> [Docs](#)

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon without a signed-in user.

Select permissions [expand all](#)

device

Permission	Admin consent required
> Device	
▼ DeviceManagementApps (2)	
<input checked="" type="checkbox"/> DeviceManagementApps.Read.All ⓘ Read Microsoft Intune apps	Yes
<input checked="" type="checkbox"/> DeviceManagementApps.ReadWrite.All ⓘ Read and write Microsoft Intune apps	Yes
> DeviceManagementConfiguration	

Figure 9-24: Request API permissions page

b. **Group Permission**—Under **Group**, select **Group.Read.All**, and then click **Add permissions**.

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## Request API permissions

[All APIs](#)

Microsoft Graph  
<https://graph.microsoft.com/> [Docs](#)

What type of permissions does your application require?

**Delegated permissions**

Your application needs to access the API as the signed-in user.

**Application permissions**

Your application runs as a background service or daemon without a signed-in user.

Select permissions [expand all](#)

gro

Permission	Admin consent required
> Calls	
▼ Group (1)	
<input type="checkbox"/> Group.Create ⓘ Create groups	Yes
<input checked="" type="checkbox"/> Group.Read.All ⓘ Read all groups	Yes
<input type="checkbox"/> Group.ReadWrite.All ⓘ Read and write all groups	Yes

[Add permissions](#) [Discard](#)

Figure 9-25: Add Group Permissions

- Click on **Grant admin consent for Flexera Development Account** and consent to the permissions. The status will turn to **Granted**. Make sure the permissions are of type Delegated.

### Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

[+ Add a permission](#) [✓ Grant admin consent for Flexera Development Account](#)

API / Permissions name	Type	Description	Admin consent requ...	Status
▼ Microsoft Graph (3)				...
<a href="#">DeviceManagementApps.Read.A</a>	Application	Read Microsoft Intune apps	Yes	✓ Granted for Flexera Development Account ...
<a href="#">DeviceManagementApps.ReadW</a>	Application	Read and write Microsoft Intune apps	Yes	✓ Granted for Flexera Development Account ...
<a href="#">User.Read</a>	Delegated	Sign in and read user profile	No	✓ Granted for Flexera Development Account ...

### Other permissions granted for Flexera Development Account

These permissions have been granted for Flexera Development Account but aren't in the configured permissions list. If your application requires these permissions, you should consider adding them to the configured permissions list. [Learn more](#)

API / Permissions name	Type	Description	Admin consent requ...	Status
▼ Microsoft Graph (1)				...
<a href="#">Group.Read.All</a>	Application	Read all groups	Yes	✓ Granted for Flexera Development Account ...

Figure 9-26: Configured permissions page

# Assignment Groups

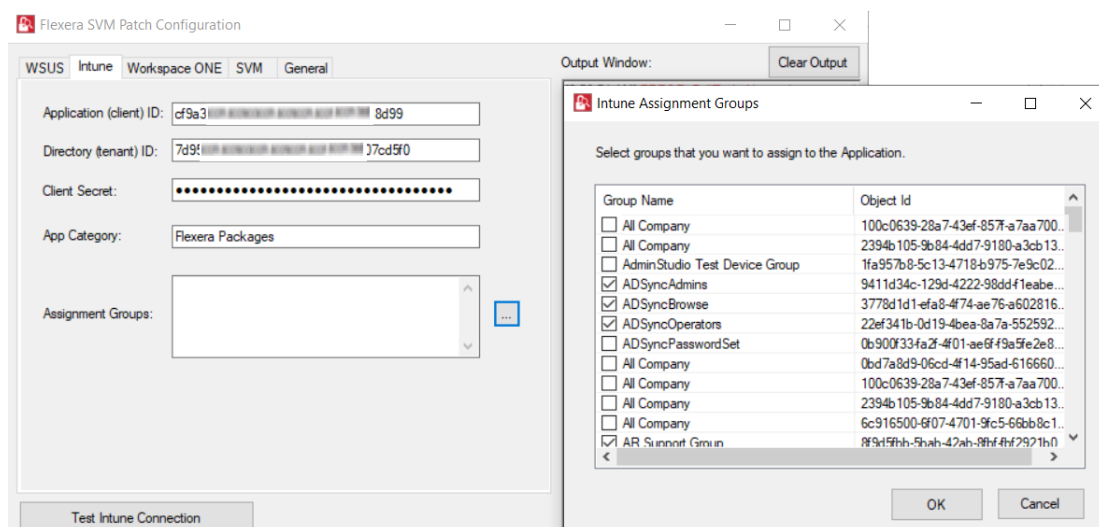
To make assignments for end point deployments in the SVM Patch Configuration for Intune publishing, perform the following steps.



## Task

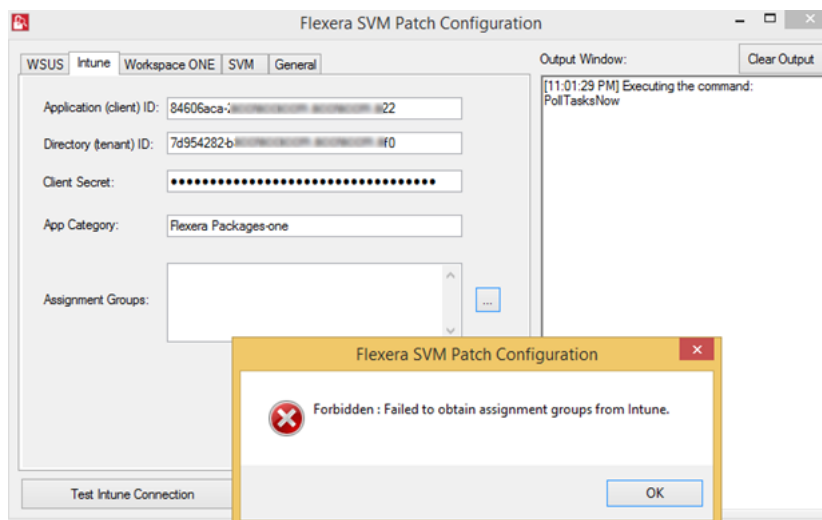
**To make assignments for end point deployments in the SVM Patch Configuration:**

1. In Assignment Groups (optional) field, click context menu icon. The **Intune Assignment Groups** window appears. Select the desired groups from the list and then click **Ok**.



**Figure 9-27:** Select desired Assignment Groups

2. Restart the SVM Patch Configuration so that the selected groups will be assigned for the end point deployments.
3. If Group.Read.All permissions are not added for registered account, then the following error popup will be displayed while assigning group in Patch Configuration.



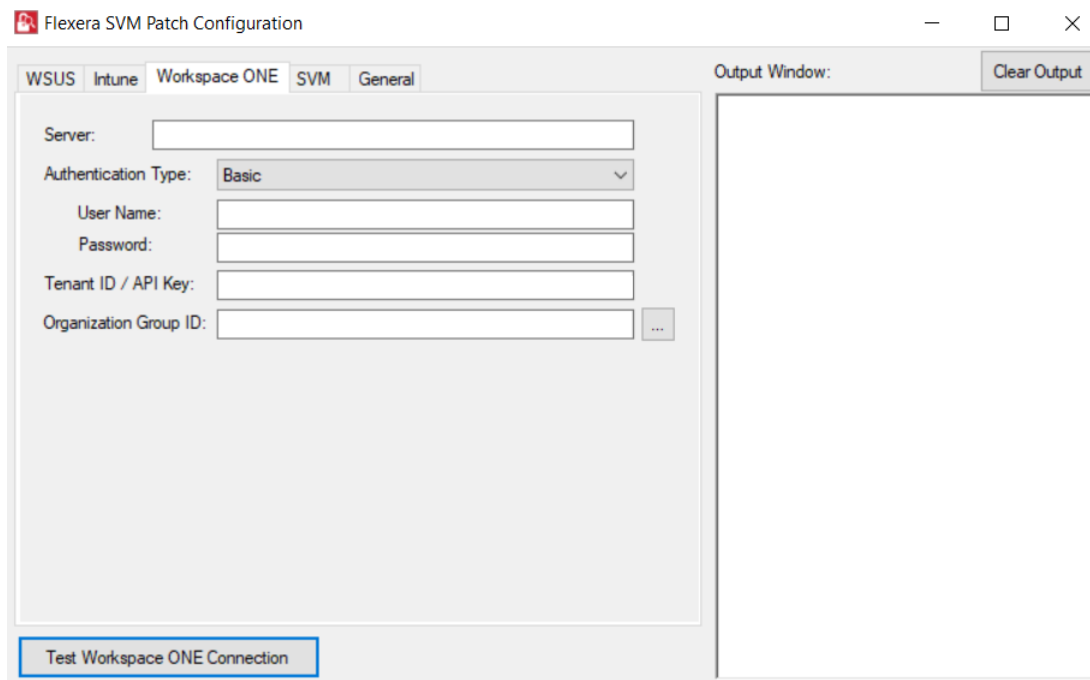
**Figure 9-28:** Error popup appears

# Workspace ONE Publishing

Software Vulnerability Manager can now publish SPS and VPM patches to VMware Workspace ONE.

This new capability requires a new version of patch daemon, released as a part of SVM Toolkit that can be downloaded at [SVMClientToolkitInstall.msi](#)

To publish patches to Workspace ONE, it will be necessary to configure patch daemon with valid Workspace ONE connection details. For more details, see [Set up a Distribution Connection in Flexera SVM Patch Configuration for Workspace ONE](#).



**Figure 9-29:** Workspace ONE Tab

Once the connection to Workspace ONE is configured, you can use either [Patch Automation](#) or Create Update Package wizard (ActiveX) to publish SPS and VPM patches to Workspace ONE.



**Note** • Workspace ONE permits publishing a single application only once to an Organization Group. Therefore, if you attempt to publish an application to an Workspace ONE Organization Group that already contains that application, the publication will fail.

## Set up a Distribution Connection in Flexera SVM Patch Configuration for Workspace ONE

To set up a distribution connection for Workspace ONE, perform the following process.

- [Basic or Certificate Authentication Type](#)
- [Create Tenant ID / API Key](#)

For more details on Test Connections, see [Flexera SVM Patch Configuration](#).

## Basic or Certificate Authentication Type

For Workspace ONE connection, you can select **Authentication Type** as either **Basic** or **Certificate**.

If you selected authentication type as a **Basic**, then enter your Workspace ONE **User Name** and **Password**.

If you selected authentication type as a **Certificate**, then provide certificate details as mentioned in the below steps:



### Task

#### To provide Certificate authentication:

1. Log in to Workspace ONE using the valid credentials.
2. Once logged in, choose **Accounts** in the left panel.
3. Under **Administrators**, choose **List View**.

The Admin users will then be listed in the **List View** page.

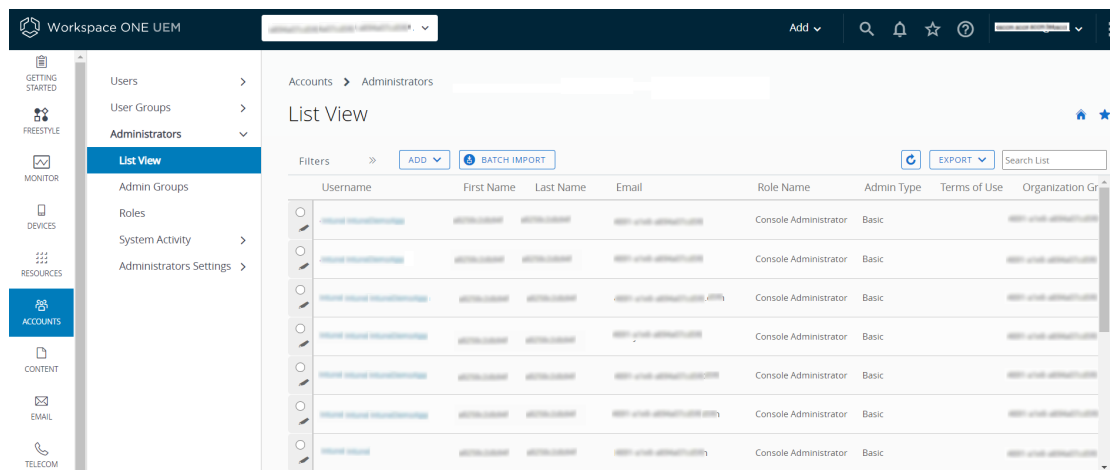


Figure 9-30: List View Page

4. Click the **Username**. The **Add/Edit Admin** panel appears. Choose **API** tab.
5. In the API tab, generate a certificate export password by entering the valid values in the **Certificate Password** test box, and then click the **Export Client Certificate** button.

Certificate has been exported to the local folder.



**Note** • This password will be used later for importing the certificate.



**Note** • By default **Certificates** authentication will be selected.


## Add/Edit Admin



Basic Details Roles **API** Notes

---

Authentication \* **USER CREDENTIALS** **CERTIFICATES** ⓘ

Issued by 

Valid From 10/19/2020 1:01 PM

Valid To 10/14/2040 1:01 PM

Thumbprint 0F8601CBF4689C98BA1208BAECFC459AAC8C3F97

**CLEAR CLIENT CERTIFICATE**


Certificate Password ..... Show

**EXPORT CLIENT CERTIFICATE**

**SAVE** CANCEL

**Figure 9-31:** Generate Certificate Password

6. Double click the exported certificate, the **Certificate Import Wizard** dialog box appears.  
Select the store location to **Local Machine**, where you can import the certificate. Click **Next**.

←  Certificate Import Wizard

×

### Welcome to the Certificate Import Wizard

This wizard helps you copy certificates, certificate trust lists, and certificate revocation lists from your disk to a certificate store.


A certificate, which is issued by a certification authority, is a confirmation of your identity and contains information used to protect data or to establish secure network connections. A certificate store is the system area where certificates are kept.

Store Location

☐ Current User

☒ Local Machine

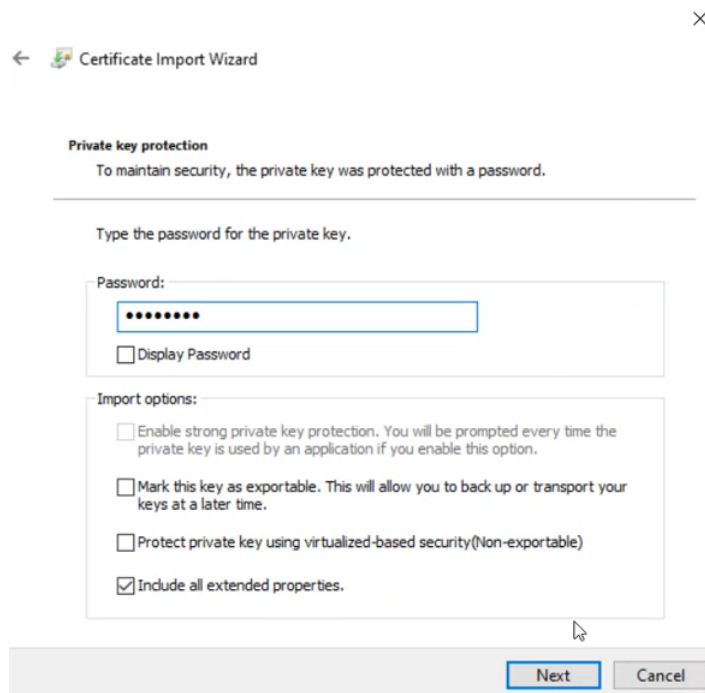
To continue, click Next.

 Cancel

**Figure 9-32:** Select Local Machine

7. In the **File to Import** page, optionally, specify the file you want to import. Click **Next**.

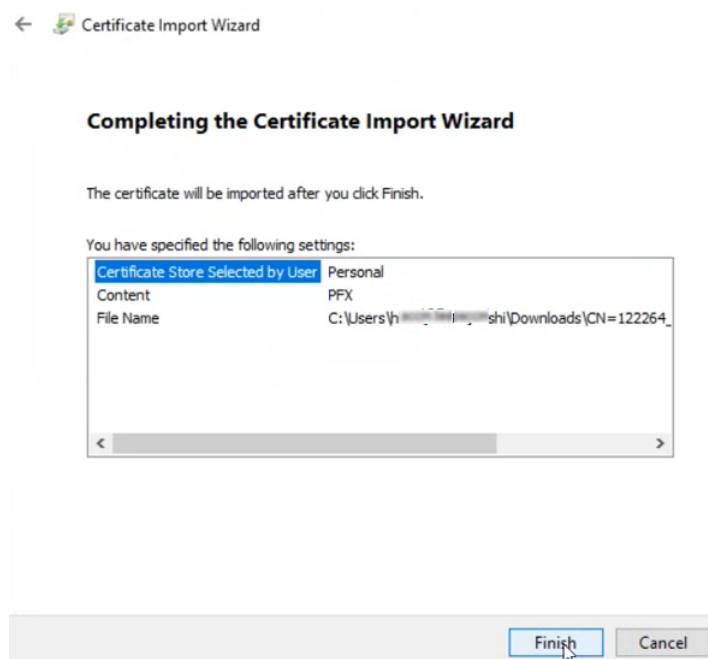
8. In the **Private key protection** page, enter the certificate password, and then click **Next**.



The screenshot shows the 'Private key protection' page of the Certificate Import Wizard. At the top, there is a title bar with a back arrow, a wizard icon, and the text 'Certificate Import Wizard', followed by a close button (X). Below the title bar, the page title 'Private key protection' is displayed, followed by the instruction 'To maintain security, the private key was protected with a password.' A horizontal line separates this header from the main content area. The main content area has the instruction 'Type the password for the private key.' Below this, there is a 'Password:' section with a text box containing eight dots and a checkbox labeled 'Display Password'. Below the password section is an 'Import options:' section with four checkboxes: 'Enable strong private key protection. You will be prompted every time the private key is used by an application if you enable this option.' (unchecked), 'Mark this key as exportable. This will allow you to back up or transport your keys at a later time.' (unchecked), 'Protect private key using virtualized-based security(Non-exportable)' (unchecked), and 'Include all extended properties.' (checked). At the bottom right of the main content area, there are 'Next' and 'Cancel' buttons.

**Figure 9-33:** Enter Certificate Password

9. In the **Certificate Store** page, select **Place all Certificate in the following store** radio button, and then browse to the **Personal** folder where you can install the certificate. Click **Next**.
10. Click **Finish** to import the certificate.



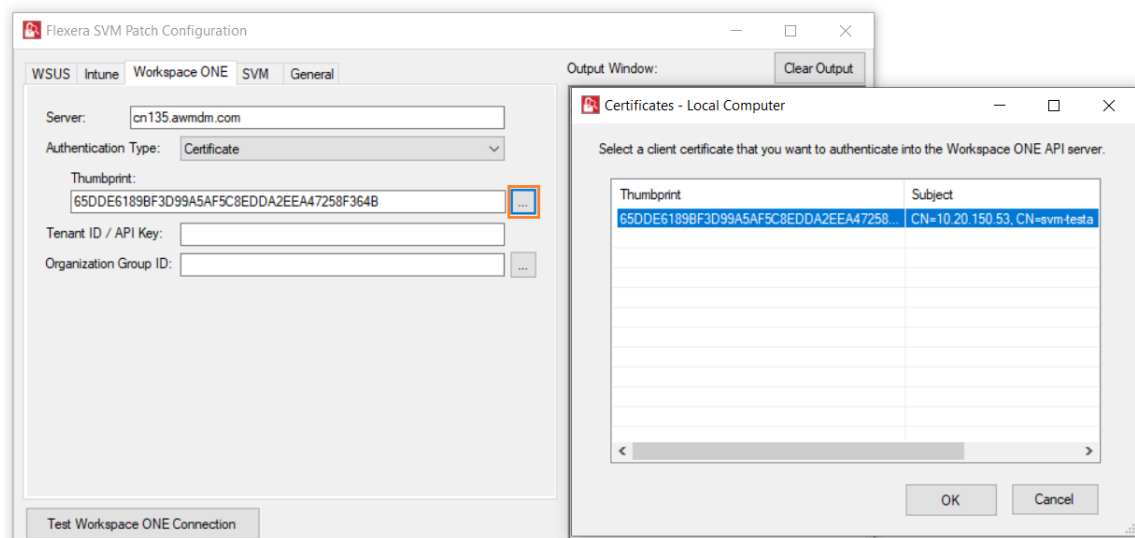
The screenshot shows the 'Completing the Certificate Import Wizard' page. At the top, there is a title bar with a back arrow, a wizard icon, and the text 'Certificate Import Wizard', followed by a close button (X). Below the title bar, the page title 'Completing the Certificate Import Wizard' is displayed, followed by the instruction 'The certificate will be imported after you click Finish.' Below this, there is a section titled 'You have specified the following settings:' which contains a table with the following information:

Certificate Store Selected by User	
Content	PFX
File Name	C:\Users\h...shi\Downloads\CN=122264_...

Below the table, there is a horizontal scrollbar. At the bottom right of the main content area, there are 'Finish' and 'Cancel' buttons.

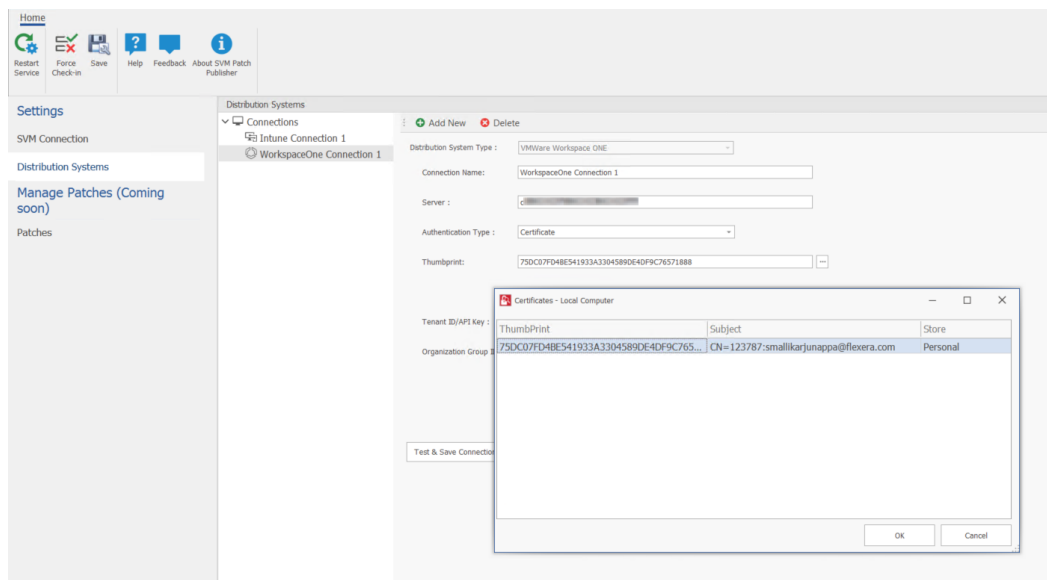
**Figure 9-34:** Click Finish

11. Click **Ok** and agree the confirmation dialog which appears.
12. In the Flexera SVM Patch Configuration, click **Thumbprint**, browse and select the **Certificate**.



**Figure 9-35:** Browse and select Certificate

13. In the SVM Patch Publisher, click **Thumbprint**, browse and select the **Certificate**.



## Create Tenant ID / API Key

To obtain Tenant ID / API Key for the registered account, perform the following steps.



## Task

### To obtain Tenant ID / API Key:

1. In the application page, select **GROUPS & SETTINGS** from the left panel.

The **Groups & Settings** page appears.

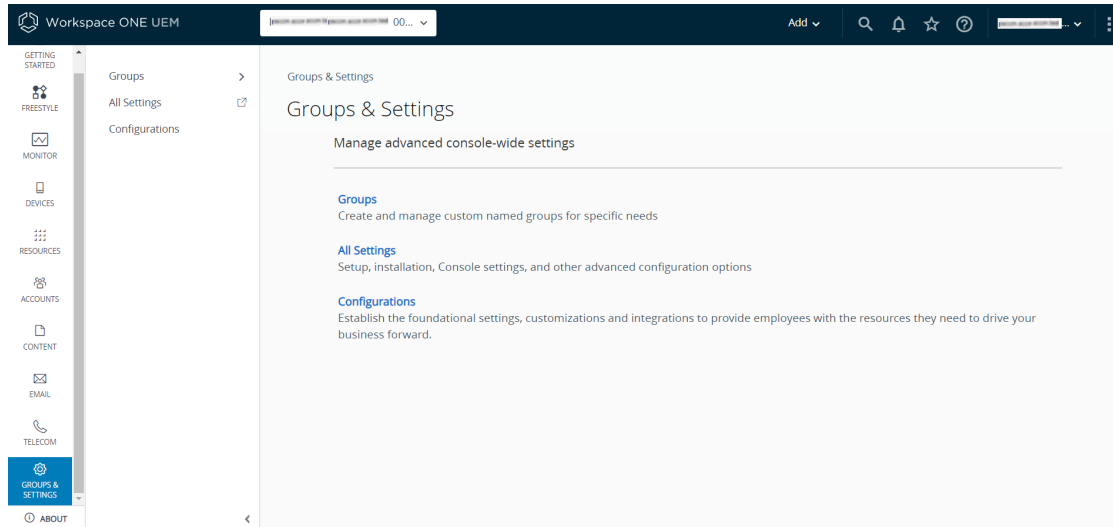


Figure 9-36: Groups & Settings page

2. On the **Group & Settings > All Settings > Systems > Advanced > API > REST API**.



**Note** • Make sure that the **Enable API Access** field should be **ENABLED**.

3. In the **REST API** page, The Tenant ID / API Key details will be listed in the **API Key** column.
4. To get new Tenant ID / API Key, click **Add**.
5. Provide a service name, description to describe your API, choose the account type you wish to set, and then click **Save**. The Tenant ID / API Key will then be listed in the **API Key** column.

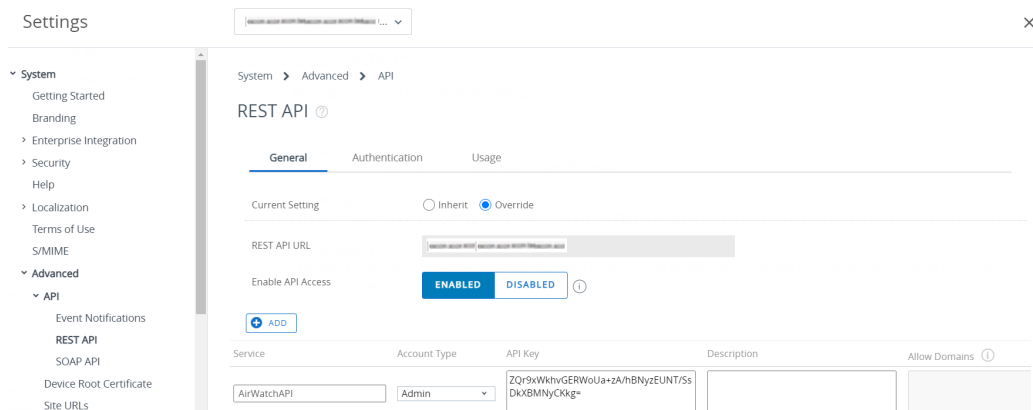


Figure 9-37: Click Add





# 10

## Administration

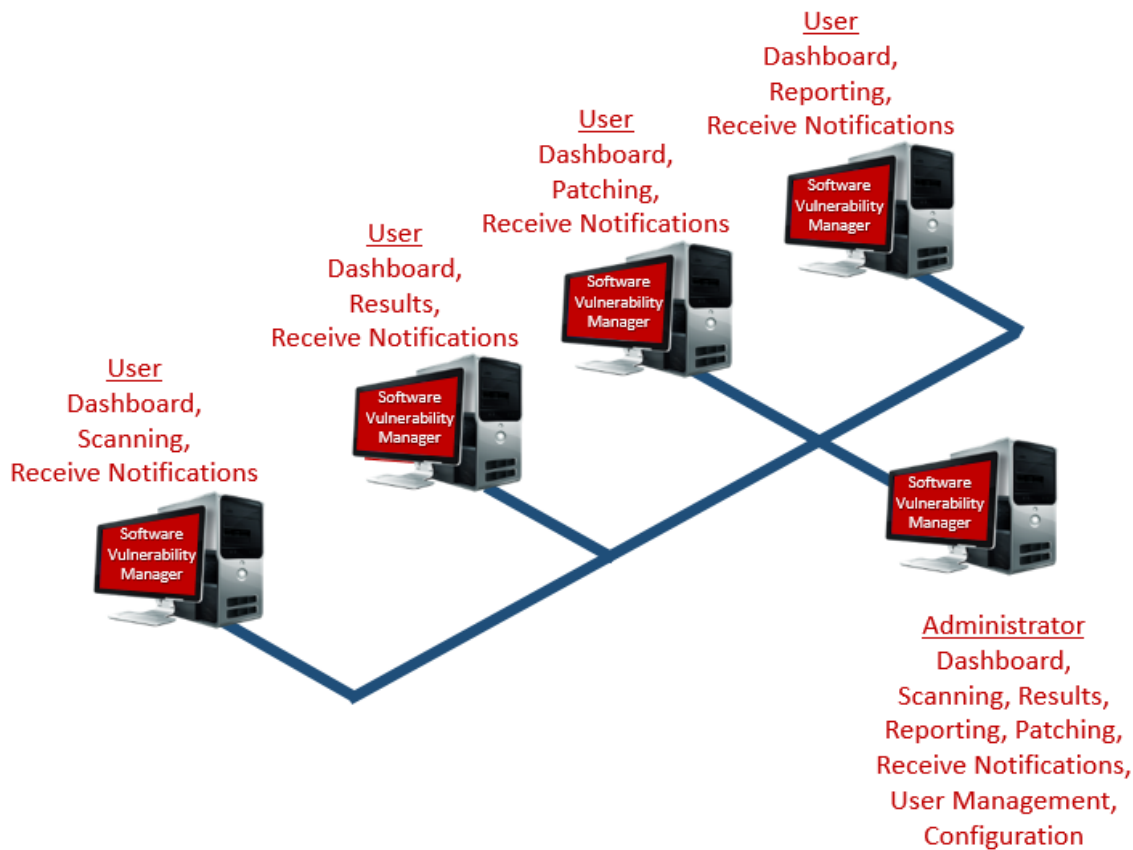
This chapter discusses the following Software Vulnerability Manager administrative features:

- [Roles](#)
- [User Management](#)
- [Active Directory \(Requires the Software Vulnerability Manager Plug-in\)](#)
- [IP Access Management \(Requires the Software Vulnerability Manager Plug-in\)](#)
- [Password Policy Configuration](#)

### Roles

Software Vulnerability Manager uses role-based account management. Each Software Vulnerability Manager user is created and assigned a set of roles and limitations as appropriate. These roles determine which parts of Software Vulnerability Manager the user has access to and limits what the user can view and scan.

Every user of Software Vulnerability Manager can receive notifications such as reports, email and SMS.



The roles are as follows:

- **Scanning**—Allows the user to scan hosts and view the Scanning menu of Software Vulnerability Manager.
  - **Filter Scan Results** – Allows the user to access and configure Allow list and Block list filtering and Custom Scan Results.
- **Patching**—Allows the user to access the Patching module.
- **Results**—Allows the user to view scan results via, for example, [Smart Groups](#).
- **Reporting**—Allows the user to access various reporting options and the Database Console and Database Cleanup menus.
  - **Database Access**—Allows the user to access the Database Console and schedule exports. There are no options to restrict the user's network access if this option is selected.
- **Read Only**—Prohibits the user from making any changes that write data to the Flexera Software Cloud. Read Only users do not have Scanning or Patching capabilities.
- **Restricted**—Users are read only users with limited functionality. A Restricted user is unable to view the default set of Smart Groups and are restricted to:
  - Viewing only the Custom Smart Groups that have been created for them,
  - Viewing the Reports that have been created for them.
  - Changing their password.

Only the Root Administrator can access the [Active Directory \(Requires the Software Vulnerability Manager Plug-in\)](#) and [Password Policy Configuration](#). Administrative users have additional capabilities that allow:

- Configuring Software Vulnerability Manager
- Creating users and assigning their roles and restrictions
- Assigning License limits

None of the access limitations apply to an administrative user and they can view all Hosts and Results.

## User Management

Use this page to administer your Software Vulnerability Manager users.

- [Create a New Administrator](#)
- [Create a New User](#)

### Create a New Administrator

Click Create New Administrator and fill in the form, providing all the necessary details about the administrative user and include the limits to assign to the user.

An email will be sent to the user containing a welcome message and their Software Vulnerability Manager login credentials.

Right-click an existing account to view, edit or delete the account.

### Create a New User

To create a new user account, click Create New User and fill in the form, providing all the necessary details about the user. Select the User Roles & Permissions to assign the roles to the user.

**Create New User**

**Account Details**

Name:

Username:

Email:

☐ Use SSO for authentication

☐ Allow User to see the Completed Scans and Single Host Agents from all other Users

Host License Limit: ☒ No Limit  (99006 Host Licenses Available)

**Recipient Details**

Enter an email address and (optionally) a mobile number to be used for emails, notifications and alerts the Flexera Software Vulnerability Manager can be configured to send.

Email:

Mobile Number: (  )

**User Roles & Permissions**

Configure the specific roles and permissions for this user. Note that Read-Only and Restricted users have restrictions on what roles they may be granted, and even within certain roles, there are actions and views they will not have access to. Restricted users are limited to logging in, changing their password and only viewing their Smart Groups and Reports.

Write Permissions: ☒ Read / Write ☐ Read Only ☐ Restricted

**Roles & Sub-Roles**

☐ Scanning ☐ Reporting

☐ Filter Scan Results ☐ Database Access

☐ Patching

☐ Results

A confirmation email with activation instructions will be sent to the email address provided.

Select the check boxes under Restrict User's Network Access to specify which network endpoints you would like to allow the user to have access to. You can use existing configured Host name or IP Based Restrictions. Please note that Host names must be entered with the langroup(domain) in the format hostname.langroup. Using only the Host name will not work as you could have the same Host name in different domains which will allow users to see hosts they might not be permitted to see.



**Note** • Restrict User's Network Access options are not available when a Database Access Role is granted.

## Create a New User for Single Sign-On (SSO)

To create a new user account, click **Create New User** and fill in the form, providing all the necessary details about the user. Select **Use SSO for authentication** and then select the **User Roles & Permissions** to assign the roles to the user.

**Create New User**

**Account Details**

Name: test123

Username: test123@example.com

Email: test123@example.com

☒ Use SSO for authentication

☒ Allow User to see the Complete Scans and Single Host Agents from all other Users

Host License Limit: ☒ No Limit 0 (402 Host Licenses Available)

**Recipient Details**

Enter an email address and (optionally) a mobile number to be used for emails, notifications and alerts the Flexera Software Vulnerability Manager can be configured to send.

Email: test123@example.com

Mobile Number: ( 91 ) 1234567890

**User Roles & Permissions**

Configure the specific roles and permissions for this user. Note that Read-Only and Restricted users have restrictions on what roles they may be granted, and even within certain roles, there are actions and views they will not have access to. Restricted users are limited to logging in, changing their password and only viewing their Smart Groups and Reports.

Write Permissions: ☒ Read / Write ☐ Read Only ☐ Restricted

**Roles & Sub-Roles**

☒ Scanning ☒ Reporting

☒ Filter Scan Results ☐ Database Access

☒ Patching

☒ Results

**Restrict User's Network Access**

You can limit this user's access and view of the network by restricting their scope using the following filters:

## Active Directory (Requires the Software Vulnerability Manager Plug-in)

As a Root Administrator, you can select Enable Active Directory integration to allow your group policies to be automatically updated in Software Vulnerability Manager when changes are made to the Active Directory.



**Important** • Switching to Active Directory will hide your current Sites structure and the Results > Sites menu. For these to be displayed you must disable the Active Directory integration, logout, and then login to Software Vulnerability Manager. It is NOT recommended to toggle Active Directory on and off unnecessarily.

Requirements to integrate Software Vulnerability Manager with the Active Directory Domain:

- Active Directory Domain environment

- Domain User privileges
- Port 3268 (msft-gc protocol) open between Domain Controller and Software Vulnerability Manager Host

Enabling Active Directory imports all discovered computer objects in the Active Directory Schema. Disabling Active Directory does not delete the computer objects in Software Vulnerability Manager. Deleting sensitive computer information in Software Vulnerability Manager must be done manually by the user.

Use the options below to control which Active Directory paths will be scanned. The Active Directory scanner will attempt to fetch the widest structure possible starting from the provided root location. The scanner only analyses Domain Controllers and Organizational Units.

All accessible branches - By looking at the Active Directory Partitions, the scanner determines the accessible Domain Controllers that can be scanned.

Specific Domain Controller - You can specify a certain Domain Controller to be scanned. It must be accessible from the host running Software Vulnerability Manager. Select Set nETBIOSName manually to enter the nETBIOSName of the Domain Controller.

The view options help you control how the elements of the Active Directory are displayed. You can select the Show Distinguished Names for sites instead of single Organizational Units check box to display multiple Organizational Units with the same name. Note that this does not affect the Site name for server-side exports or generated reports.

You can use the schedule options to set Active Directory scans at regular intervals or perform a manual scan.

## IP Access Management (Requires the Software Vulnerability Manager Plug-in)

As a Root Administrator, you can use this page to configure the IP addresses the Software Vulnerability Manager console can be accessed from.



**Important** • The first IP Access Rule you set up must always be a Allow list rule and must include the external (public) IP address of the console you are creating the rule from. If, for example, you check ipconfig you will find the internal IP address, which will not work. You can find your external IP address by using an Internet search engine and typing “find my ip address”.



## Task

### To create a new rule:

1. Click New IP Rule. Enter a name for the rule, the IP address or IP range, select to add the rule to a allow list or block list, and the users to apply the rule to. The rule can contain a Single IP or an IP range, but you need to start with a allow list rule. If you allow list one IP address (the one you are using), then all other IP addresses are block-listed by default.

**New IP Access Rule**

Name:

Type: ☒ Single IP ☐ IP range

IP:

Added to: ☒ Allow list ☐ Block list ?

Users: ☒ All ☐ Custom

2. Once you have created a allow list rule with an IP range, you can then block list a Single IP or an IP range within the allow list IP range.
3. All IPs that have been added to a allow list are able to use Software Vulnerability Manager and IPs added to a block list are not able to connect.
4. To test if an IP has access to Software Vulnerability Manager based on the current rules, click Check IP.

# Password Policy Configuration

Use this page to configure the password policy for users. This policy should be set on a "global" level, that is, the password policy cannot be configured differently for different users. The Administrator defines the policy based on the options displayed in the Policy Rules dialog.

**Policy Rules**

Configure the Software Vulnerability Manager password policy for your users.

☒ Password must be at least  characters long.

☒ Users must be prevented from reusing the password for at least  changes.

☒ Password must contain at least  digits.

☒ Password must contain at least one lower case, one upper case and at least one special character.

☒ Password must be changed at least every  days.





# 11

## Configuration

This chapter describes the following features that can be configured in Software Vulnerability Manager:

- [Settings](#)
- [Log Messages](#)
- [Activity Log](#)
- [Suggest Software](#)
- [Security](#)

### Settings

Use this page to configure various settings within Software Vulnerability Manager.

- [Scan Threads](#)
- [Live Updates](#)
- [Collect Network Information](#)
- [Zombie File Settings](#)
- [Check for Missing Microsoft Security Update Settings](#)
- [Flexera Software Package System \(SPS\) Timestamp](#)
- [Mask paths that show user names](#)
- [Configure Agent's status polling](#)
- [Java Assessment Settings](#)
- [Default Recipient Settings](#)
- [Windows Update Settings](#)
- [Single Sign-On \(SSO\) Settings](#)

- [Configure Single Sign-On \(SSO\)](#)
- [Configure Single Sign-On \(SSO\) with Azure](#)

## Scan Threads

Define the number of simultaneous scans to be executed. You can set the Scan threads value from 1 to 99 (the default is 5).

Please note that the number of simultaneous scan threads will not affect the scans being performed by the CSIA (Agent), since these scans are made locally by the agents.

**Scan Settings**

This setting defines the number of simultaneous scans to be executed. The recommended value is between 5 and 10, depending on the power of the computer and the network capacity available. The value can be set from 1 to 99. [?](#)

Scan threads:

## Live Updates

Select the Activate Live Update check box to update your scan results as new Vulnerability Intelligence pertaining to your existing scan results emerges. By doing this you agree that you understand and accept that this is not a replacement for regular scheduled scanning, and could lead to your shown scan results not being the most accurate representation of the current state of your network. Live Update changes will only modify scan data received after enabling this feature. Older scan results will not be affected by this feature. Please note that Live Update does not update Red Hat Agent scan results.

**Live Update**

I want my scan results to be updated in real time as new Vulnerability Intelligence pertaining to my existing scan results emerges. I understand and accept that this is not a replacement for regular scheduled scanning, and could lead to my shown scan results not being the most accurate representation of the current state of my network. [?](#)

☐ Activate Live Update

## Collect Network Information

Select the Allow Collection of Network Information check box to allow collection and storage of network hardware information, such as assigned IP and Mac addresses, when scanning devices to be able to restrict users based on IP addresses or IP Networks.



**Note** • The collected information is not visible to users except from the Database Console. This option is only available to the Root Administrator.

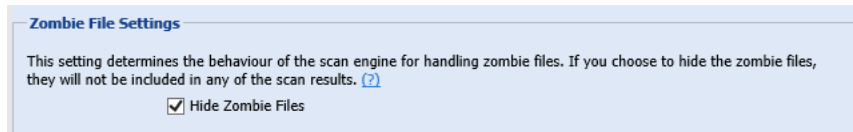
**Collect Network Information**

I want to allow the collection and storage of network information, such as assigned IPs and MAC addresses, when I scan devices. [?](#)

☐ Allow Collection of Network Information

## Zombie File Settings

Zombie files are files that were left behind after removing or applying a product/patch. Software Vulnerability Manager will pick up these files since these are listed in Software Vulnerability Manager file signature as being related to an Insecure or End-Of-Life product. Select the Hide Zombie Files check box to ensure that zombie files will not be included in any of the scan results. With the Hide Zombie Files setting enabled, only the highest version of the discovered product will be displayed in the scan results. To activate the Hide Zombie Files setting, a new scan is needed to change the scan results.

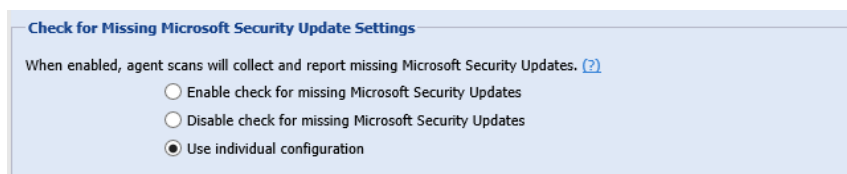


The Hide Zombie Files setting is a global setting for a partition that applies to all users of that partition. This option is visible to all users, but only Partition Administrators are able to change it. Refer to [Appendix A - Partition Management](#) for more information.

## Check for Missing Microsoft Security Update Settings

The Check for Missing Microsoft Security Update Settings determines whether or not agents perform the Windows Update check to collect and report missing Microsoft Security Updates:

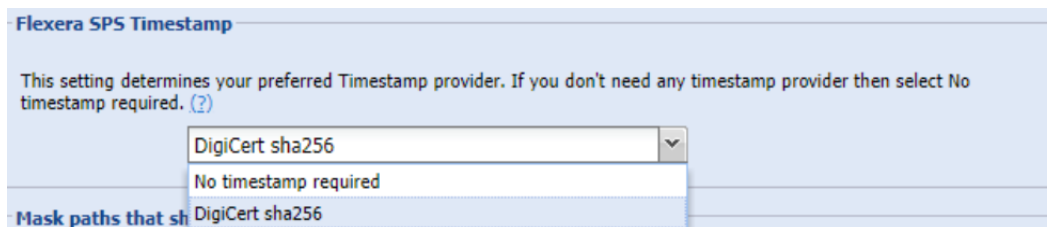
- Enable check for missing Microsoft Security Updates – All agents will check for missing Microsoft updates, using the [Windows Update Settings](#).
- Disable check for missing Microsoft Security Updates – No agents will check for missing Microsoft updates.
- Use individual configuration – Agents will use their site settings or their individual settings for determining whether to check for missing Microsoft updates. If their individual or site setting says that the agent should check for missing Microsoft updates, then that agent will do the check, using the Windows Update Settings.



This option is visible to all users, but only Partition Administrators are able to change it. Refer to [Appendix A - Partition Management](#) for more information.

## Flexera Software Package System (SPS) Timestamp

The Flexera SPS Timestamp setting allows users to track when a patch was deployed to its system when [Creating a Patch with the Flexera Software Package System \(SPS\)](#).



Under the **Flexera SPS Timestamp** drop-down menu, you can select the default “No timestamp required” option or the appropriate timestamp provider.

## URL Allowlist for new Timestamp server

### New DigiCert timestamping service IP address:

If necessary, allow this service so that you can access it on your network. It recommended to allow by domain name (timestamp.digicert.com), but if you are required to allow by IP, the new IP address will be: 216.168.244.9

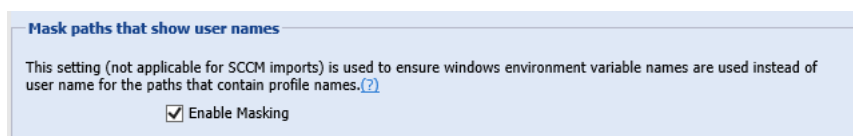
## Mask paths that show user names

To comply with the European Union’s General Data Protection Regulation (GDPR), folder names that contain user information (Example: C:\Documents and Settings\Username) can be concealed using environment variables instead of hard-coded paths (Example: %HOMEPATH%).

Select **Enable Masking** to turn on the GDPR functionality of concealing user name information.

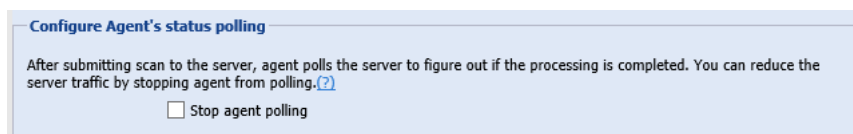


**Note** • This setting is only available beginning with the Software Vulnerability Manager May 2018 release.



## Configure Agent’s status polling

To address a server’s high CPU usage during high volume of scan data, agent polling has been switched off by default as agent polling is intended for debugging purposes only and is not needed for core functionality. You have the ability to turn agent polling ON or OFF.



## Java Assessment Settings

The **Java Assessment Settings** allows you to specify if you want to detect Java instances in the standard installation directories alone or in all the directories.

### Java Assessment Settings

I want to detect all instances of Java, including those included with other applications which cannot be remediated by a Java patch. By default, only standard installation directories are considered as only they can be directly patched. To patch vulnerable versions of Java embedded in other applications, such applications need to be patched versus trying to update Java directly. If enabling detection anywhere Java is found, look to the detected paths to determine which can or cannot be patched directly.(?)

☒ Detect Java only in standard installation directories where it can be patched  
☐ Detect Java in any directories where it is found, including those that cannot be directly patched

## Default Recipient Settings

Specify the default email and SMS recipient lists used throughout the Software Vulnerability Manager User Interface in various ways, including generating reports and configuring Smart Group notifications.

### Default Recipient Settings

These settings define the default email/SMS recipient lists used throughout the Software Vulnerability Manager User Interface in various ways, including generating reports and configuring Smart Group notifications. Select email addresses/SMS numbers and click "Save" to update your default setting.

Note: When configuring a report or a notification, if desired, a user can provide a select recipient list to use other than the default ones defined here.

Available Email Recipients		Selected Email Recipients	
Name	Email	Name	Email
<input type="checkbox"/> user1			

Page 1 of 1
Displaying Available Recipients 1 - 1 of 1

## Windows Update Settings

The **Windows Update Settings** control the behavior of the Windows Update Agent (WUA) used by Software Vulnerability Manager and the Software Vulnerability Manager Agent (csia.exe) to retrieve update information on Windows and other Microsoft products. Each update setting is further explained below.

### Windows Update Settings

Configure the behaviour of the Windows Update Agent (WUA). (?)

☐ Use a managed Windows Update server  
☒ Use the official Windows Update server  
☐ Use the official Microsoft Update server  
☐ Use offline method: path to .CAB file

☒ Enable WMI Check

## Use a managed Windows Update server

The csia.exe agent will request a check for updates through an enterprise managed WSUS instance. On machines not configured through WSUS, this check for updates will result in the error: 0x80244011 "WUService policy value is missing in the registry".

## Use the official Windows Update server

The csia.exe agent will request a check for updates through the public Windows Update server. This check will only return updates related to Windows.

## Use the office Microsoft Update server

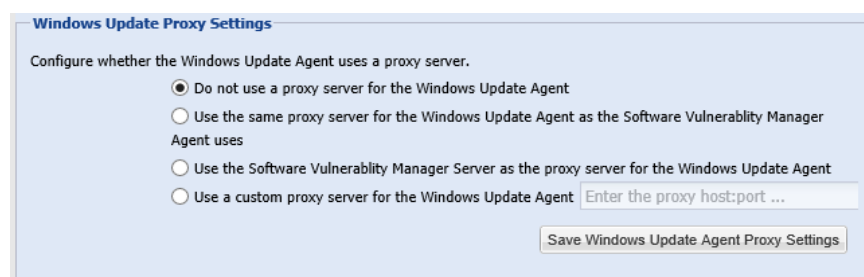
The csia.exe agent will request a check for updates through the public Windows Update server. This check will return a superset of the "Windows Update server" results that include Windows updates and updates for Microsoft products such as Office (non App-V, non App-X installs only) and MSVC redistributables.

## Use offline method: path to .CAB file

You should implement the .cab file scanning of windows update for clients that are not connected to the Internet and cannot access WSUS or MU/WU. In such situations Microsoft provides a .cab file that can be used to scan the system. There are limitations to this feature:

- You are responsible for placing the file in a location accessible by Windows Update Services. The file must be on the local file system; placing the file on a shared drive is not supported by Windows Update Services.
- The alternate scan data source (.cab file) only includes high priority updates (security bulletins, critical updates, update rollups) and some service packs. It does not include optional updates (such as updates, feature packs, and tools) and some service packs. If a machine uses this source for scanning, then it is likely that fewer patches will be detected.
- Software Vulnerability Manager should be run as administrator.

For the **Windows Update Proxy Settings**, select "Do not use a proxy server for the Windows Update Agent".



## Enable WMI Check

Agents can be configured to include security updates from SCCM in the scan data. This feature can be used along with an existing missing security update collection or as the only source for missing knowledge base information.


# Single Sign-On (SSO) Settings

On the **Configuration > Settings** tab, you can specify SSO Settings.

## IdP Configuration Instructions

Under SSO Settings on the **Configuration > Settings** tab, you can specify the following IdP Configuration Instructions settings.


**Table 11-1 • SSO SETTINGS / IDP CONFIGURATION INSTRUCTIONS**

Settings	Description
<b>Single Sign On URL</b>	This field lists the application's single sign-on URL. You will need to enter this URL into the settings for your chosen Identity Provider.
<b>Account Key</b>	Set this field in your Identity Provider (IdP) as a SAML attribute named accountKey.
<b>Generate and Show Key</b>	Click to generate and display the Account Key.  <b>Note •</b> This key is not stored on the Software Vulnerability Manager server. Make sure that you keep it in a safe place. If you lose it, you may regenerate the key, but doing so will invalidate the old key.
<b>Service Provider Metadata URL</b>	Lists the Service Provider Metadata URL.

## Service Provider Configuration

Under SSO Settings on the **Configuration > Settings** tab, you can specify the following Service Provider Configuration settings.

**Table 11-2 • SSO SETTINGS / SERVICE PROVIDER CONFIGURATION**

Settings	Description
<b>SSO Enabled</b>	Select this option to enable Single Sign-On.
<b>Disable standard login</b>	If you are using Single Sign-On at your organization, select this option to disable standard login options for all of your users (except root).  <b>Important •</b> Before selecting this option, make sure that SSO is working correctly, to prevent user lockout.
<b>Upload IdP Metadata XML file</b>	Select this option if you want to upload the IdP metadata XML file.
<b>Provide IdP Metadata URL</b>	Select this option if you want to enter the identity provider metadata URL into the <b>IdP Metadata URL</b> field.
<b>Automatically create new users</b>	Select this option to automatically create new users.
<b>Default groups for new users</b>	Specify the default group for new users.





**Note** • For more information on Single Sign-On, see [Configure Single Sign-On \(SSO\)](#).

## Configure Single Sign-On (SSO)



**Note** • The following information is unique to the single sign-on vendor Okta (SAML 2.0). Single sign-on procedures from other vendors may vary.

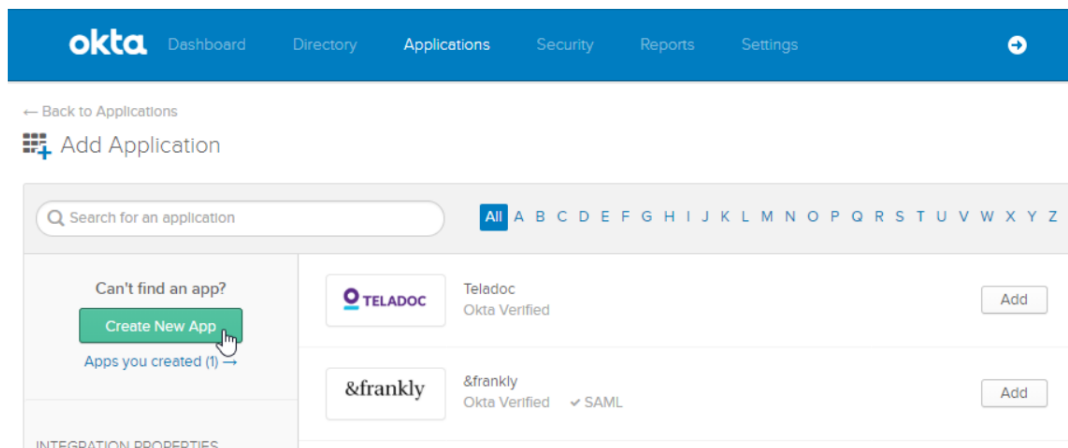
Perform the following steps to configure Single Sign-On (SSO).



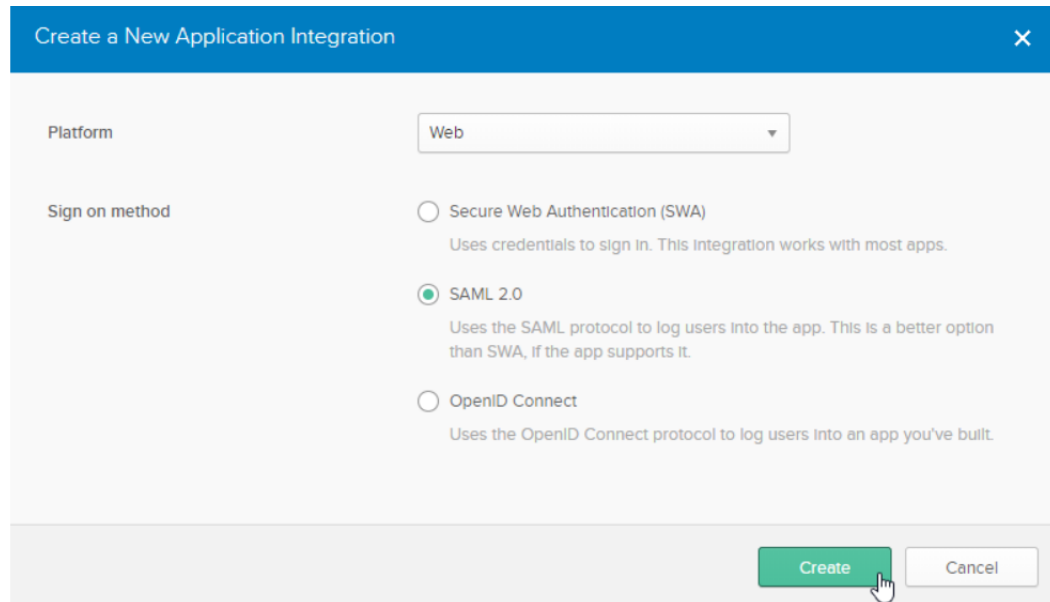
### Task

**To set up Okta (SAML 2.0) to use as a single sign-on (SSO) with Software Vulnerability Manager:**

1. Sign in to Okta.
2. Create an admin account.
3. Click **Create New App** to create a new Okta SSO app.



4. Choose **Web** for the Platform and **SAML 2.0** for the Sign on method. Then click **Create**.



**Create a New Application Integration**

Platform: Web

Sign on method:

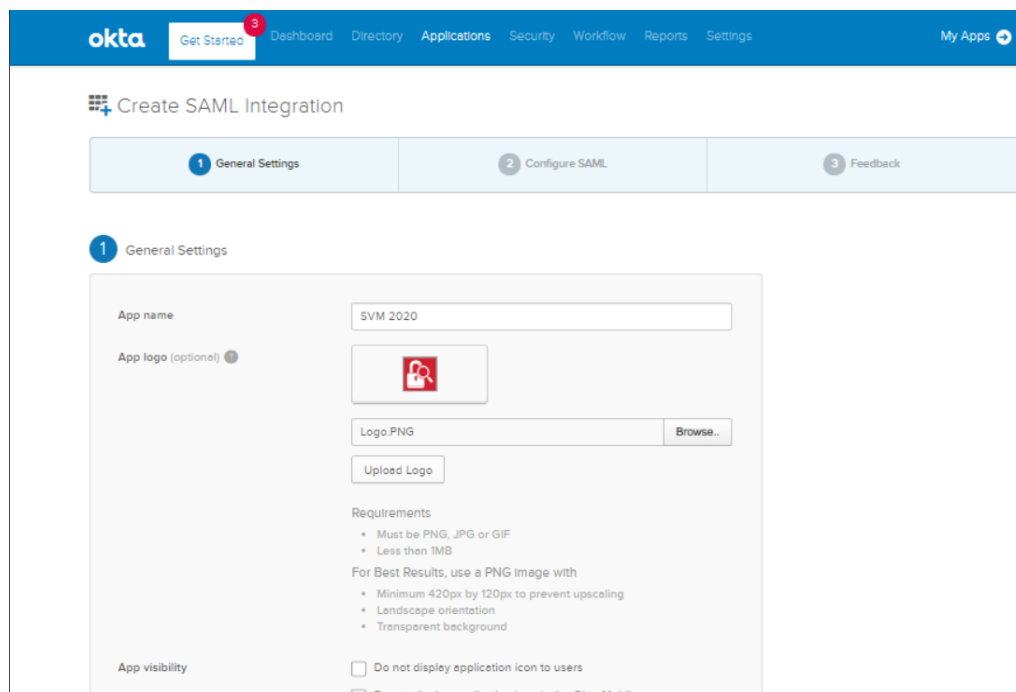
- ☐ Secure Web Authentication (SWA)  
Uses credentials to sign in. This integration works with most apps.
- ☒ SAML 2.0  
Uses the SAML protocol to log users into the app. This is a better option than SWA, if the app supports it.
- ☐ OpenID Connect  
Uses the OpenID Connect protocol to log users into an app you've built.

Create Cancel

5. Enter an **App name** (Example: SVM) and **App logo**. Then click **Next**.



**Note** • Username needs to be in email format.



**Okta** Get Started Dashboard Directory Applications Security Workflow Reports Settings My Apps

**Create SAML Integration**

1 General Settings 2 Configure SAML 3 Feedback

1 General Settings

App name: SVM 2020

App logo (optional): [Logo]

Logo.PNG Browse...

Upload Logo

Requirements

- Must be PNG, JPG or GIF
- Less than 1MB

For Best Results, use a PNG Image with

- Minimum 420px by 120px to prevent upscaling
- Landscape orientation
- Transparent background

App visibility

- ☐ Do not display application icon to users
- ☐ Do not display application icon in the Okta Mobile app


6. Copy the following from the Software Vulnerability Manager **Configuration > Settings** fields and paste in the **Okta SAML Settings >** fields:
  - Single Sign On URL (Same with Recipient URL and Destination URL) to Single sign on URL and Audience URL (SP Entity ID)

- Select EmailAddress for Name ID format
- Account Key to accountKey Value

Complete the remaining **Okta SAML Settings > Attribute Statements (Optional)** name and value fields using the field's drop-down list:


- firstName
- lastName
- email
- username


**GENERAL**

Single sign on URL 


☒ Use this for Recipient URL and Destination URL


☐ Allow this app to request other SSO URLs

Audience URI (SP Entity ID) 

Default RelayState 

If no value is set, a blank RelayState is sent

Name ID format 

Application username 

Update application username on

[Show Advanced Settings](#)

---

**ATTRIBUTE STATEMENTS (OPTIONAL)** [LEARN MORE](#)

Name	Name format (optional)	Value
accountKey	Basic	Nxwlt7dEEgLP
firstName	Basic	user.firstName
lastName	Basic	user.lastName
email	Basic	user.email
username	Basic	user.login

[Add Another](#)

Single Sign On URL (Same with Recipient URL and Destination URL) (?)

https://csi7.secunia.com/sso/saml/147dedbc-ae54-450a-aeef7-1769

Account Key

Set the below value in your Identity Provider (IdP) as a SAML attribute named "accountKey"

\*\*\*\*\*

Generate Key

Note: This key is not stored on the SVM server, please make sure that you keep it in a safe place. If lost, you may regenerate the key but doing so will invalidate the old key.

Service Provider Metadata URL https://csi7.secunia.com/sso/saml/147dedbc-ae54-450a-aeef7-1769

- Click (if not already selected) **I'm an Okta customer adding an internal app** for the Create SAML Integration - Step 3 Feedback screen.

1

General Settings

2

Configure SAML

3

Help Okta Support understand how you configured this application

Are you a customer or partner?

☒

I'm an Okta customer adding an internal app

☐

I'm a software vendor. I'd like to integrate my app with Okta

i

The optional questions below assist Okta Support in understanding your app integration.

App type

☒

This is an internal app that we have created

Previous

Finish

- At the Okta Sign On Settings screen, click the **Identity Provider metadata** link.

General **Sign On** Import Assignments

---

Settings

Edit

SIGN ON METHODS

The sign-on method determines how a user signs into and manages their credentials for an application. Some sign-on methods require additional configuration in the 3rd party application.

SAML 2.0

Default Relay State

SAML 2.0 is not configured until you complete the setup instructions.

[View Setup Instructions](#)

[Identity Provider metadata](#) is available if this application supports dynamic configuration.

- Copy the Identity Provider metadata URL from Okta, login into the partition admin, browse **Configuration >Settings > Service Provider Configuration**, and then check **SSO Enabled**. Select Identity Provider metadata UR and paste the copied IdP metadata URL into the text box. Select **Automatically create new user** check box and selected the template user from the combo box.



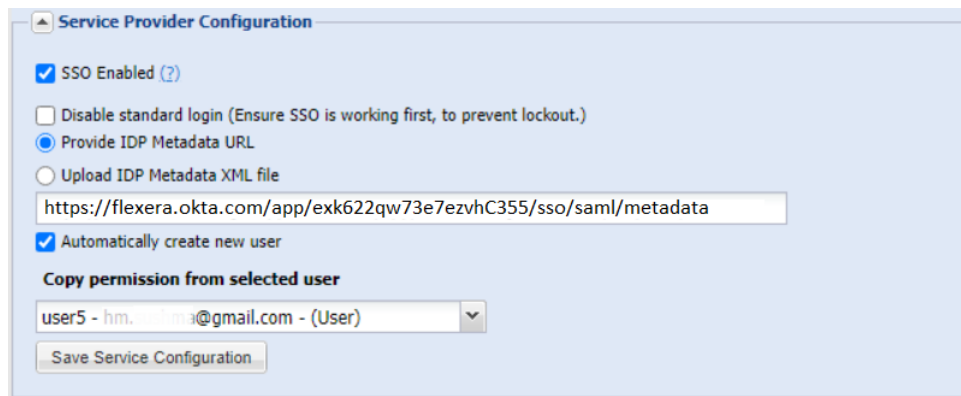
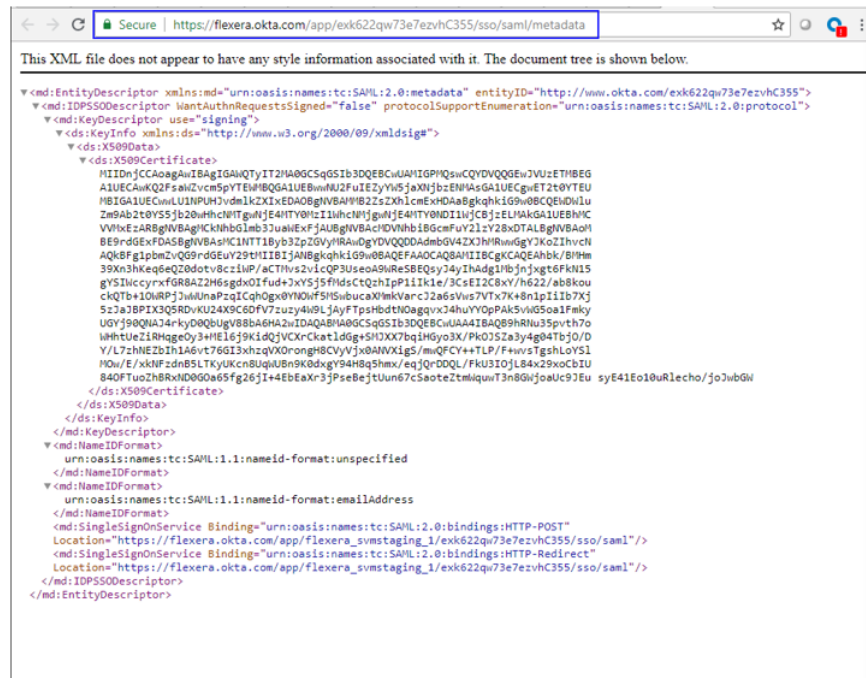
**Note** • Single Sign-On settings can be updated only by the partition admin.



**Note** • For Binaries like Daemon, sc2012 plugin, Client toolkit will be logged in only by the standard login credentials. If disable standard login is selected, then the binaries will be logged in only by the partition administrator.



**Note** • For a secure connection, the Assertions Signed (or similarly named) setting should be enabled on your IDP.

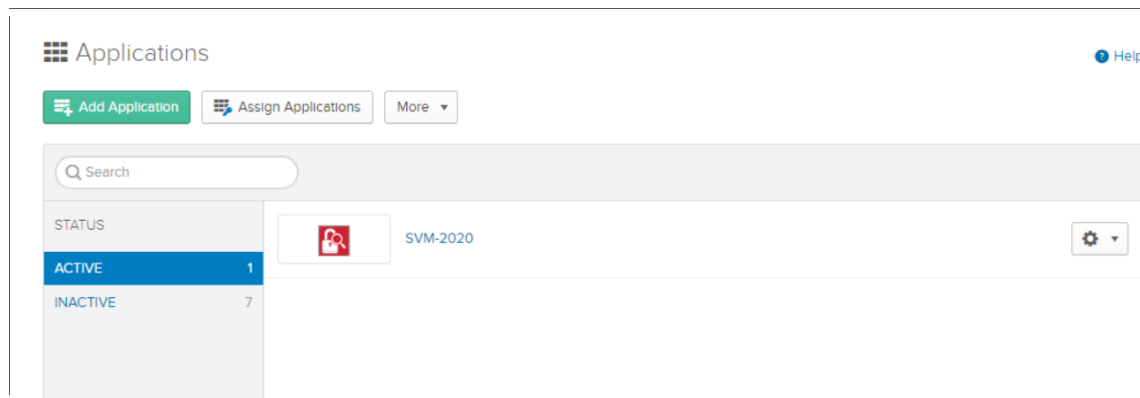


10. If you want to disable standard login options for all of your users (except root), select the **Disable standard login** option.

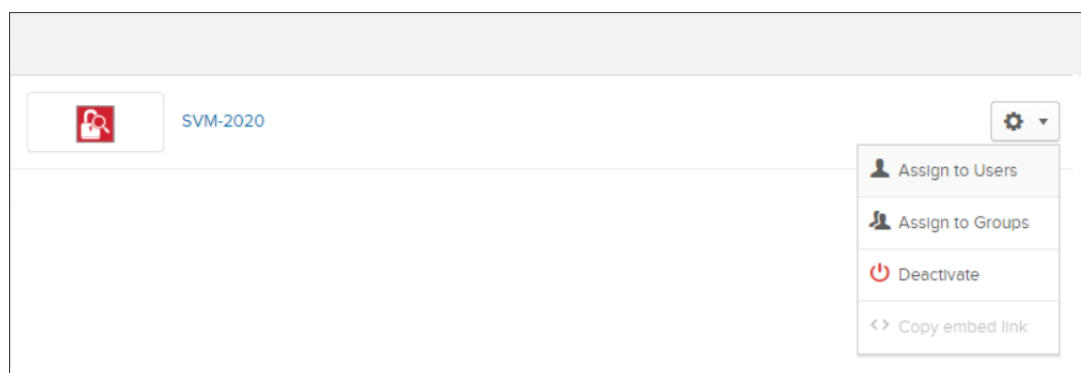


**Important** • Before selecting this option, make sure that SSO is working correctly, to prevent user lockout.

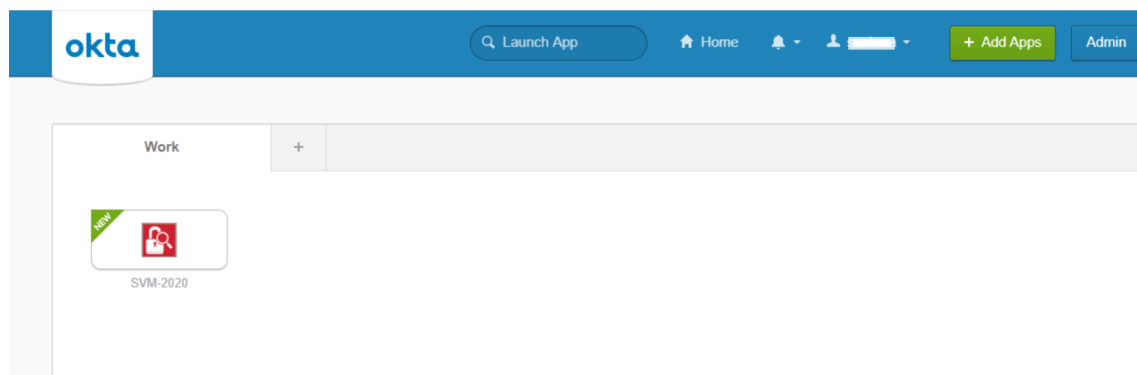
11. Click **Save Service Configuration** on the **Configuration > Settings** page.
12. Add Software Vulnerability Manager users to the Okta SSO account.



13. Assign Software Vulnerability Manager users to the Okta SSO app.



14. Users can login to Okta by entering the valid credentials and then click on SVM 2020 app to access the application.



15. Users are then logged into the Software Vulnerability Manager [Login](#) page.



**Important** • For security purposes, Software Vulnerability Manager has a session timeout that will log you off after 2 hours of inactivity.

## Configure Single Sign-On (SSO) with Azure

To configure SSO in Azure, perform the following steps:

- Create an Enterprise Application
- Assign Users to the Enterprise Application
- Set up Single Sign-On (SSO) in Azure

## Create an Enterprise Application

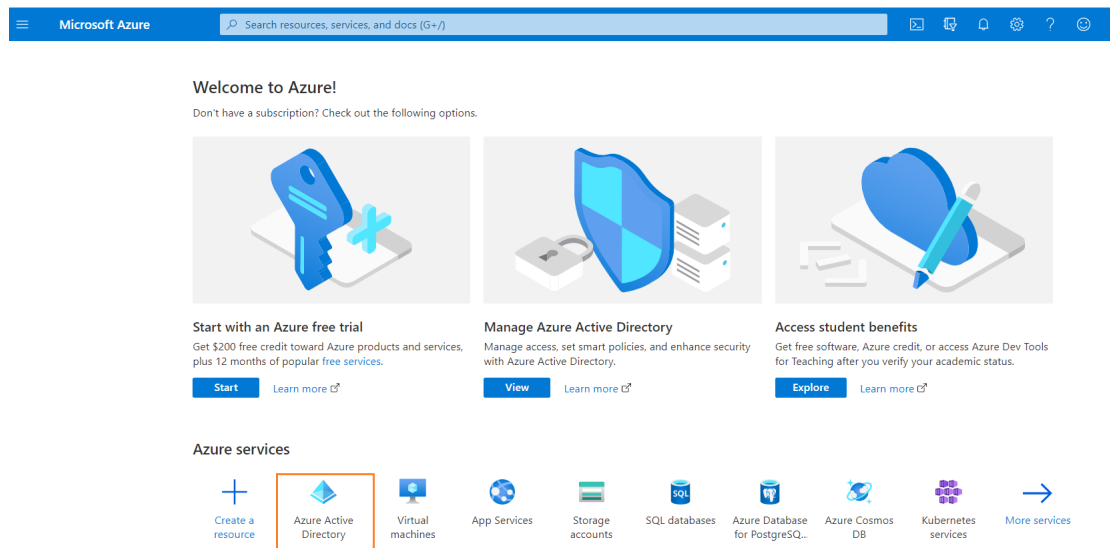
Perform the following steps to add Software Vulnerability Manager as an Enterprise Application Azure Active Directory.



### Task

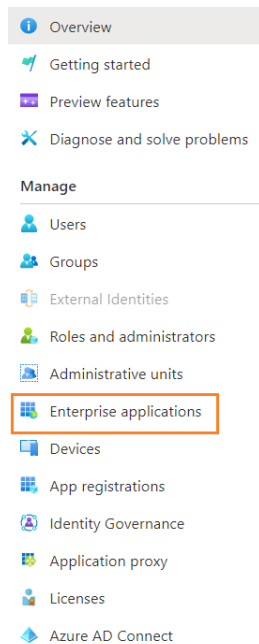
#### To create an Enterprise Application:

1. Log in to Microsoft Azure using the obtained credentials.  
<https://azure.microsoft.com/en-in/account/>
2. From the list of available Azure services, choose **Azure Active Directory**.

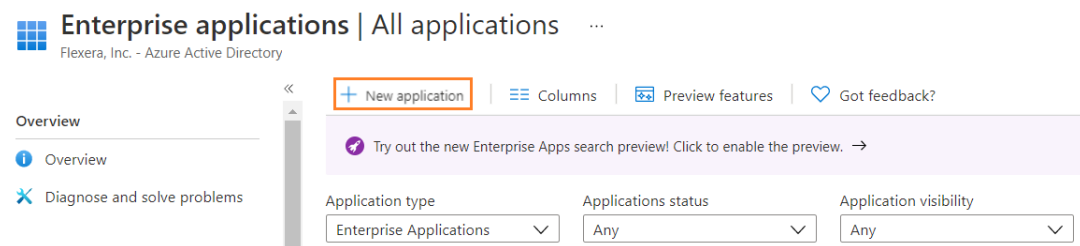


3. Click on **Enterprise applications** in the left pane.

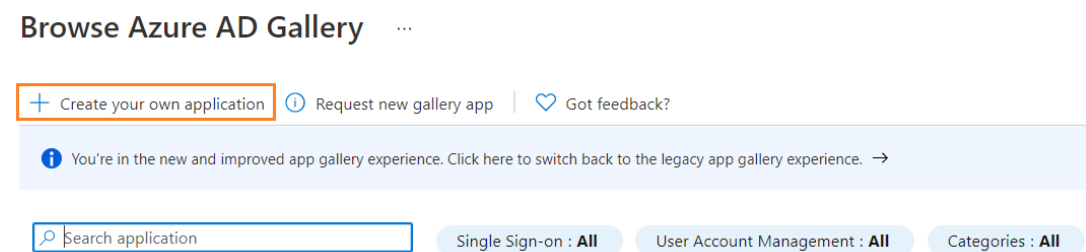




4. Click **+ New application**.



5. Click **+ Create your own application**.



6. Enter a name for the application.

## Create your own application



What's the name of your app?

Software Vulnerability Manager

What are you looking to do with your application?

- ☐ Configure Application Proxy for secure remote access to an on-premises application
- ☐ Register an application to integrate with Azure AD (App you're developing)
- ☒ Integrate any other application you don't find in the gallery (Non-gallery)

**We found the following applications that may match your entry**  
We recommend using gallery applications when possible.

TrendMiner

Software AG Cloud

webMethods Integration Suite

Identity Panel

Create

- Click **Create**. The new enterprise application will be created.

**Enterprise applications** | All applications ...

Flexera Development Account - Azure Active Directory

+ New application | Columns | Preview features | Got feedback?

Try out the new Enterprise Apps search preview! Click to enable the preview. →

Application type: Enterprise Applications | Applications status: Any | Application visibility: Any | Apply | Reset

Name	Homepage URL	Object ID	Application ID
Software Vulnerability Manager		c67652b7-ec8b-469f-94ee-c3110c1f80db	25a40eca-d5ef-40c2-a8c5-afbed2e5e2a1

## Assign Users to the Enterprise Application

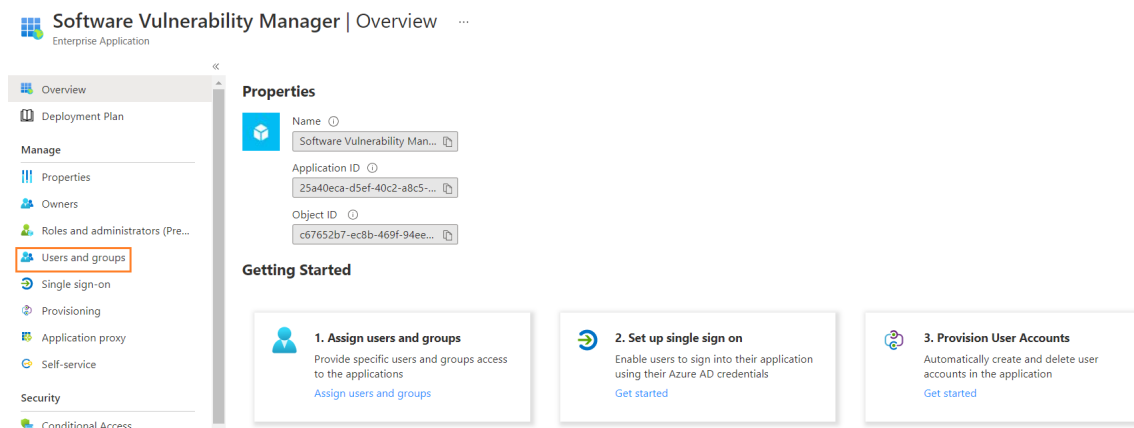
To assign users or groups to the enterprise application, perform the following steps.



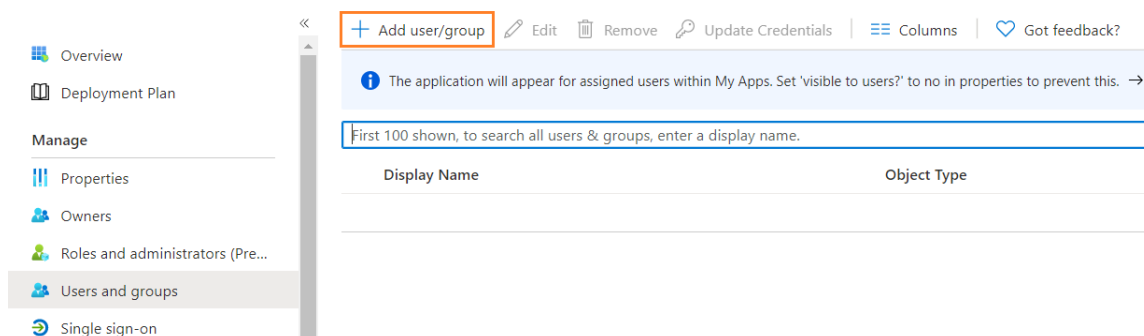
## Task

### To assign User:

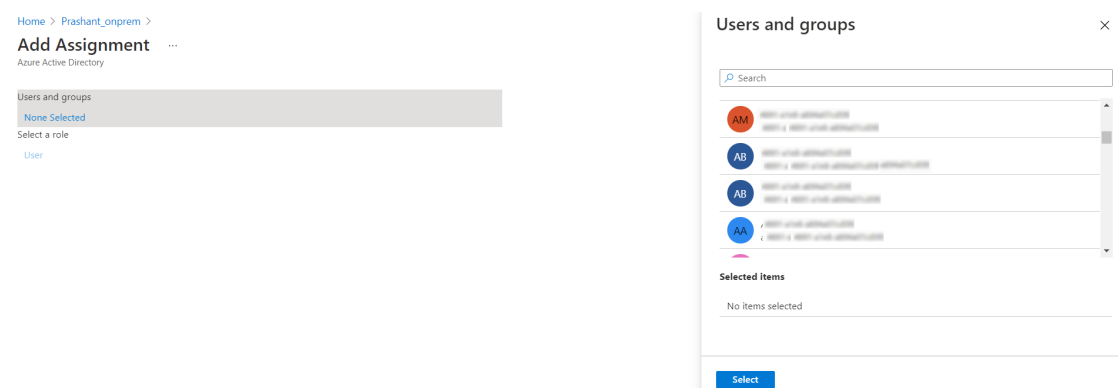
1. On the application account details page, select **Users and groups** from the left panel.



2. Click **+ Add user/group**.



3. Under **Add Assignment > Users and groups** click **None Selected** link. Search and select desired users and groups, and then click **Select**.



4. After selecting, click **Assign**.

The Users and groups then assigned to the Enterprise Application.

## Set up Single Sign-On (SSO) in Azure

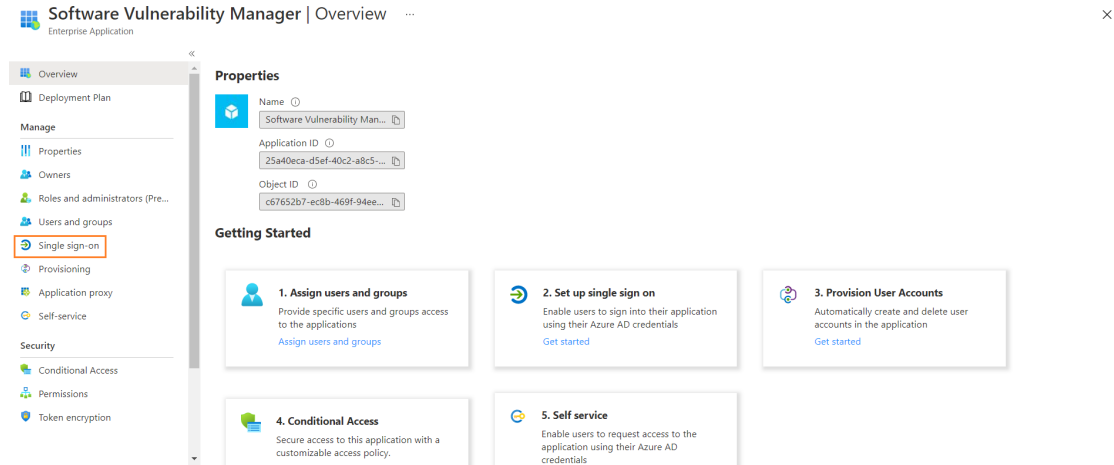
For setting up single sign-on in Azure, perform the following steps.



### Task

#### To set up single sign-on:

1. On the application account details page, select **Single sign-on** from the left panel. You can also select from the Overview page by clicking Get started link.



2. Click SAML.
3. The **Set up Single Sign-On with SAML** page appears. Under **SAML Signing Certificate** field copy Metadata Url, login to Software Vulnerability Manager, browse **Configuration > Settings > Service Provider Configuration**, and then check **SSO Enabled**. Paste the copied URL into the text box.

1

Basic SAML Configuration

Edit

Identifier (Entity ID)	https://csi7.secunia.com/sso/metadata/263198ec-dc32-4c79-9440-610987b823c1
Reply URL (Assertion Consumer Service URL)	https://csi7.secunia.com/sso/saml/263198ec-dc32-4c79-9440-610987b823c1
Sign on URL	Optional
Relay State	Optional
Logout Url	Optional

2

User Attributes & Claims

Edit

firstName	user.givenname
lastName	user.surname
accountKey	"t5PyT1W2vRkm"
email	user.userprincipalname
username	user.userprincipalname
Unique User Identifier	user.userprincipalname

3

SAML Signing Certificate

Edit

Status	Active
Thumbprint	3061478B1254A2BAB0152FB01B61B9F773B2C07E
Expiration	5/31/2024, 12:55:44 PM
Notification Email	si@secunia.com
App Federation Metadata Url	https://login.microsoftonline.com/7d954282-b832...
Certificate (Base64)	<a href="#">Download</a>
Certificate (Raw)	<a href="#">Download</a>
Federation Metadata XML	<a href="#">Download</a>

**Service Provider Configuration**

☒ SSO Enabled (?)

☐ Disable standard login (Ensure SSO is working first, to prevent logout.)

☒ Provide IdP Metadata URL

☐ Upload IdP Metadata XML file

☒ Automatically create new user

**Copy permission from selected user**

4. Generate an account key from the Software Vulnerability Manager **Configuration > Settings > IdP Configuration Instructions** and then click **Save Service Configuration** button. Click **Ok** and agree the confirmation dialog which appears.
5. Copy the following from the Software Vulnerability Manager **Configuration > Settings** fields and paste in the Azure **Single sign on > Set up Single Sign-On with SAML > Basic SAML Configuration**:
  - Single Sign On URL (Same with Recipient URL and Destination URL) to Reply URL (Assertion Consumer Service URL).
  - Single sign on URL and Audience URL (SP Entity ID) to Identifier (Entity ID).

After selecting the details click Save.

## Basic SAML Configuration

×

**Identifier (Entity ID) \*** ⓘ

*The default identifier will be the audience of the SAML response for IDP-initiated SSO*

	Default
<input type="text" value="http://adapplicationregistry.onmicrosoft.com/customappsso/primary"/>	<input checked="" type="checkbox"/> ⓘ <input type="button" value="Delete"/>
<input type="text" value="https://csi7.secunia.com/sso/saml/263198ec-dc32-4c79-9440-610987b823c1"/>	<input type="checkbox"/> ⓘ <input type="button" value="Delete"/>

**Reply URL (Assertion Consumer Service URL) \*** ⓘ

*The default reply URL will be the destination in the SAML response for IDP-initiated SSO*


	Default
<input type="text" value="https://csi7.secunia.com/sso/saml/263198ec-dc32-4c79-9440-610987b823c1"/>	<input type="checkbox"/> ⓘ <input type="button" value="Delete"/>
<input type="text" value="https://csi7.secunia.com/sso/saml/263198ec-dc32-4c79-9440-610987b823c1"/>	<input checked="" type="checkbox"/> ⓘ <input type="button" value="Delete"/>






**Note** • Metadata URL can not be used for the multiple applications.

## 6. Edit the User Attributes & Claims

- Click Edit.

User Attributes & Claims		 Edit
firstName	user.givenname	
lastName	user.surname	
accountKey	"t5PyT1W2vRkm"	
email	user.userprincipalname	
username	user.userprincipalname	
Unique User Identifier	user.userprincipalname	

- The User Attributes & Claims page appears.
- Delete all old attributes and claims by clicking the context menu icon.

User Attributes & Claims ...		
 Add new claim	 Add a group claim	 Columns
Required claim		
Claim name	Value	
Unique User Identifier (Name ID)	user.userprincipalname [nameid-for...	***
Additional claims		
Claim name	Value	
accountKey	"t5PyT1W2vRkm"	***
email	user.userprincipalname	***
firstName	user.givenname	***
lastName	user.surname	***
username	user.userprincipalname	***

 Delete

- Click + Add New claim to add new attributes and claims.
- The Manage claim page appears.
- Enter name in the text field.
- Select the source attributes from the drop down list.
- After selecting, click **Save**.

Follow the above steps and add attributes and claims for the following:

- firstName
- lastName
- email
- username
- accountKey



**Note** • While selecting accountKey attributes paste the generated Account key which is copied from the Software Vulnerability Manager Configuration > Settings > IdP Configuration Instructions.

- After configuring, click **Test**, and then click **Sign in as current user** link.

- After successful action it navigates to the Software Vulnerability Manager application.



**Note** • You can also access through the Service Provider (SP) login for the created application by using the assigned user.

## Log Messages

Use this page to view sequential data regarding the actions being performed by Software Vulnerability Manager. It can also be used to detect and fix any issues that you might experience with the Software Vulnerability Manager console. The Log Details page becomes populated when you select the Configuration > Settings > Debug Logging > Enable Logging check box.

Right-click or double-click a message to copy the row data to the clipboard. Click Clear to remove all log entries. In the event of a support request you may be requested to provide relevant information from this page.

# Activity Log

Use this page to view information about user activity within Software Vulnerability Manager, for example "write" actions, logins, and so on, with the exception of scans (due to the volume of data generated). You can access a full activity and login log for compliance monitoring and auditing purposes.

Click the calendar icon next to the From and To fields to set a specific Activity Log date range to view. You can also use the Search field to filter the Activity Log results to specific actions, for example changes to IP access rules.

Select Show Priorities to filter the results by High, Medium or Low Priority.

Dashboard Activity Log						
Show all logs	From: 2021-08-29	To: 2021-11-29	Search type:	Search text...	Search	Show Priorities Create
Activity Name	Activity Status	User	Time	Activity Information	Host	Priority
User Login	Successful	...	18:33 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Package Creation	Successful	...	16:46 29th Nov, 20...	Update AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0.2.10...	223.31.69.70	Medium
VPM QuickPatch	Successful	...	16:41 29th Nov, 20...	QuickPatch: AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0...	223.31.69.69	Medium
User Login	Successful	...	16:04 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	13:23 29th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	13:23 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	17:24 28th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	17:24 28th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Delete Host	Successful	...	20:04 27th Nov, 20...	2 Hosts: Deleted	223.31.69.69	Low
User Login	Successful	...	19:38 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	17:55 27th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	17:55 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Package Creation	Successful	...	22:46 26th Nov, 20...	Update 7-Zip (x64), version 21.6.0.0 (SVM Patch Daemon)	223.31.69.70	Medium
User Logout	Successful	...	17:48 26th Nov, 20...	Logout (Software Vulnerability Manager)	14.143.29.100	Low
User Account Crea...	Successful	...	17:46 26th Nov, 20...	Created user gauri_p2	14.143.29.100	High
User Login	Successful	...	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	...	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	...	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	...	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	...	17:26 26th Nov, 20...	Login (Software Vulnerability Manager)	157.45.20.90	Medium

## Create Notifications for the Activity Log

With this configuration, you can schedule multiple notification digest for the respective events through emails.



### Task

#### To create Notifications:

1. Click **Create**.

Dashboard

Scanning

Results

Reporting

Patching

Administration

Configuration

Settings

Log Messages

Activity Log

Security

Change Password

Password Recovery

Dashboard Activity Log

Show all logs From: 2021-08-29 To: 2021-11-29 Search type: Search text... Search Show Priorities Create

Activity Name	Activity Status	User	Time	Activity Information	Host	Priority
User Login	Successful	...	18:33 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Package Creation	Successful	...	16:46 29th Nov, 20...	Update AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0.2.10...	223.31.69.70	Medium
VPM QuickPatch	Successful	...	16:41 29th Nov, 20...	QuickPatch: AdoptOpenJDK JRE with Hotspot 12 (x64), version 12.0...	223.31.69.69	Medium
User Login	Successful	...	16:04 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	13:23 29th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	13:23 29th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	17:24 28th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	17:24 28th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Delete Host	Successful	...	20:04 27th Nov, 20...	2 Hosts: Deleted	223.31.69.69	Low
User Login	Successful	...	19:38 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
User Login	Successful	...	17:55 27th Nov, 20...	Login (Software Vulnerability Manager)	223.31.69.69	Medium
User Login	Successful	...	17:55 27th Nov, 20...	Authentication by cached UID	223.31.69.69	High
Package Creation	Successful	...	22:46 26th Nov, 20...	Update 7-Zip (x64), version 21.6.0.0 (SVM Patch Daemon)	223.31.69.70	Medium
User Logout	Successful	...	17:48 26th Nov, 20...	Logout (Software Vulnerability Manager)	14.143.29.100	Low
User Account Crea...	Successful	...	17:46 26th Nov, 20...	Created user gauri_p2	14.143.29.100	High
User Login	Successful	...	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	...	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	...	17:44 26th Nov, 20...	Login (Software Vulnerability Manager)	14.143.29.100	Medium
User Login	Successful	...	17:44 26th Nov, 20...	Authentication by cached UID	14.143.29.100	High
User Login	Successful	...	17:26 26th Nov, 20...	Login (Software Vulnerability Manager)	157.45.20.90	Medium

2. The **Configure New Log Notifications** dialog box opens.



Configure New Log Notification

**Notification Details**

Name & Applicability  
You must give this notification a name (or short description) to be used when receiving alerts. Here you will also select the Events for which the notification will apply.

Name:

**Event Selection**

Select events:

Available Events	Selected Events
<input type="checkbox"/> Name	<input type="checkbox"/> Name
<input type="checkbox"/> Add Allow List Scan Path	
<input type="checkbox"/> Add Block List Scan Path	
<input type="checkbox"/> Agent Details Email	
<input type="checkbox"/> Collect Network Information	
<input type="checkbox"/> Contact Verification	
<input type="checkbox"/> Create Customer Detection Rule	
<input type="checkbox"/> Create Patch Template	
<input type="checkbox"/> Create Report	
<input type="checkbox"/> Create Scan Policy	

**Alert Conditions**

How often should this notification rule run? Scheduled is based on when the rule is saved/modified.

Choose Frequency:  Choose time:

☐ NOTIFY me when the conditions are NOT met. I.e., leave unchecked for a 'no news is good news' policy.

**Recipients Selection**

3. Describe notification name, select the required events, and then select notification schedules.
4. These email notifications can be scheduled on an **Hourly**, **Daily**, **Weekly**, or **Monthly** basis. If you select **Daily**, or **Weekly**, or **Monthly** option, then you choose the time duration for the selected day.
5. Choose the recipients and then click **Save**.

## Suggest Software

Use this page to send details about software that you would like to be added to our File Signature database.

It is important to enter as much information as possible to facilitate the processing and acceptance of your request.

**Suggest Software**

**Your Contact Details**

Your recipient profile information will be automatically submitted with this suggestion.

Username: bmd12  
Email: smallikarjunappa@flexerasoftware.com

**Product Details**

Product Path:

Product Name:

Product URL:

Description:

## Security

Software Vulnerability Manager provides the following security features for user passwords:

- [Change Password](#)
- [Password Recovery Settings](#)

## Change Password

Use this page to change the Software Vulnerability Manager account password for the user that is currently logged in. The new password must contain a minimum of eight characters, or comply with the criteria defined in the [Password Policy Configuration](#) rules.

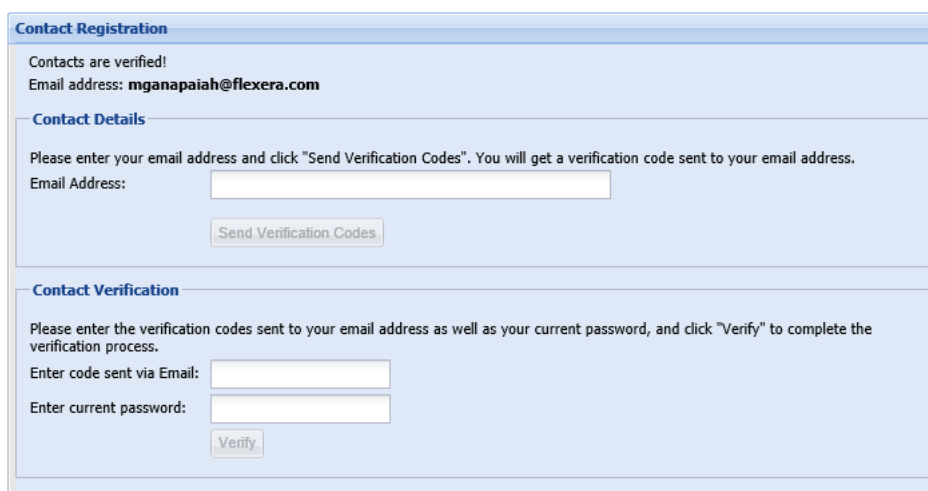


The 'Change Password' form is a light blue box with a title bar. It contains a section titled 'Change Stored Password Data' with a list of password requirements: 'Password must conform to the following policy: - Be at least 8 characters long. - Contain at least 1 digit(s). - Contain both upper and lower case alphabetic characters.' Below this are three input fields labeled 'Existing Password:', 'Enter New Password:', and 'Confirm New Password:'. At the bottom are two buttons: 'Clear' and 'Change Password'.

## Password Recovery Settings

Use this page to verify your email address and mobile number that will be used for password recovery. If your password is lost, you can reset it at login by clicking **Forgot your password?** You will then be prompted to change your password using your verified email address and mobile number.

In the Contact Details fields, you must provide your email address and a mobile phone number and click Send Verification Codes. The verification code will be received in two separate messages – one SMS on your mobile phone and the second via an email message. When entering your mobile phone number, you should select your country code from the drop-down list.



The 'Contact Registration' form is a light blue box with a title bar. It contains three sections: 'Contact Registration' with the text 'Contacts are verified!' and 'Email address: mganapaiah@flexera.com'; 'Contact Details' with the text 'Please enter your email address and click "Send Verification Codes". You will get a verification code sent to your email address.' and an 'Email Address:' input field with a 'Send Verification Codes' button; and 'Contact Verification' with the text 'Please enter the verification codes sent to your email address as well as your current password, and click "Verify" to complete the verification process.' and two input fields labeled 'Enter code sent via Email:' and 'Enter current password:' with a 'Verify' button.



---

**Note** • If you have not configured your password recovery settings and you need to reset your password at login, you can restore access to your user account. After clicking **Forgot your password?** Flexera will send an email to the email address used at the time of your account creation. The email subject line will state: “Flexera Software Vulnerability Manager Password Recovery Failed”. The email will state: “Dear customer, You have not configured the password recovery settings. Please contact your admin/Support.”

# A

## Appendix A - Partition Management

This appendix explains how to create and administer your Software Vulnerability Manager Partitions:

- [Introduction](#)
- [Partition Management](#)

### Introduction

Use Administration > Partition Management to create and administer:

- Additional Software Vulnerability Manager Partitions by assigning a specific number of host and user licenses
- User roles with specific modules and read/write permissions with host licenses

Your overall corporate group of machines is your network. Software Vulnerability Manager gives you the ability to logically partition your network. If you only use one network partition then your network and your network partition are the same thing. If your company is divided across logical and physical partitions, you can mimic that in Software Vulnerability Manager by creating multiple network partitions.

Refer to [Administration](#) for more information regarding [User Management](#).



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**Note** • Using a single WSUS server with multiple partitions is not supported.

### Partition Management

Use this page to create and administer your Software Vulnerability Manager Partitions.

- [Overview](#)
- [Permissions](#)
- [Host and User Licenses](#)

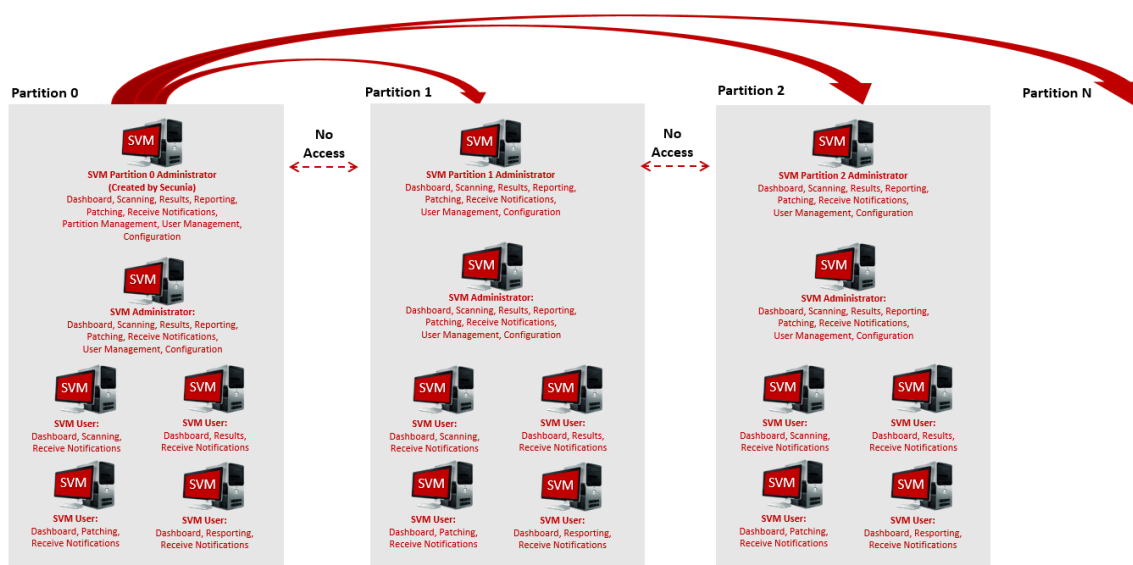
- [Create a New Partition Administrator](#)
- [Grant User Access to all Completed Scans and Single Host Agent Entries](#)

## Overview

When Flexera creates the Software Vulnerability Manager base user, this user is the Partition Administrator of “Partition 0”. The Partition 0 Administrator is the unique global administrator for the company, irrespective of how many partitions are created.

The Partition 0 Administrator can create further network partitions by creating new Partition Administrators. Only the Partition 0 Administrator can create new partitions.

Every partition has identical functionality – the only difference is that an entire partition ( $N > 0$ ) can be deleted by the Partition 0 Administrator.



**Note** • Just as creating a partition is done by creating a new Partition Administrator, deleting an entire partition is done by deleting the Partition Administrator.

Within a partition, there is only one Partition Administrator. All additional accounts are regular users, however, these users all have specific roles. One of the roles a user can have is Administrator.

The main difference between users who have the Administrator role and those who don't is that Administrators can create and delete other users within their partition. They can delete any non-administration users, but not other Administrator users.

The Partition 0 Administrator can access the Partition Management and User Management menus.

All other Partition Administrators can only access the User Management menu.

## Permissions

The MySQL user that is being used to connect to the database requires full privileges on the MySQL server (including the grant option) as in the following SQL statement:

```
GRANT ALL PRIVILEGES ON *.* TO 'secunia_user'@'localhost' WITH GRANT OPTION;
```

The WITH GRANT OPTION is only required when creating Partitions. If you don't want to permanently give the GRANT privilege to Software Inspector's MySQL user, you can give the permission temporarily when creating Partitions and then revoke the permission afterwards.

## Host and User Licenses

The Partition 0 Administrator is assigned user licenses from Flexera. When the Administrator creates a new partition, licenses are allocated to the Partition Administrator of that partition. Those licenses are effectively no longer relevant to Partition 0 – and no one in Partition 0 can use them. The Partition 0 Administrator can reclaim unused licenses from another Partition by right-clicking an existing account and editing it.

The Host and User licenses in a given partition belong to a shared pool. Any user who scans hosts will use host licenses from this pool. When a user is created, an Administrator can limit how many active licenses they can claim – note, this is only an upper bound of the licenses they can use, and should not be confused with them being “assigned” licenses.

User licenses are used per account. For example, when the Partition 0 Administrator is assigned 100 licenses from Flexera, they use one for their account, so there are 99 left in the pool. The Partition 0 Administrator only assigns them when creating a new Partition. For example, the Partition 0 Administrator creates a user for Partition 1 (that takes 1 license), and gives the Partition 1 Administrator 50 user licenses. The Partition 0 Administrator now has 48 left, and the Partition 1 Administrator has 50, meaning, at most 50 additional users could be created in Partition 1.

When an Administrator in a given partition creates a user, they use 1 user license from the pool in that partition. When that user is deleted, their user license is re-added to the pool.

## Create a New Partition Administrator

Click Create New Partition Administrator and fill in the form, providing all the necessary details about the Partition Administrator and include the number of host and user licenses to assign.

**Create New Partition Administrator**

**Account Details**

Name:

Username:

Email:

☒ Generate a new one-time password and email it to the address specified above

Assign Host Licenses:  (11 Host Licenses Available)

Assign User Licenses:  (26 User Licenses Available)

**Recipient Details**

Enter an email address and (optionally) a mobile number to be used for emails, notifications and alerts the Flexera Software Vulnerability Manager can be configured to send.

Email:

Mobile Number: (  )

An email will be sent to the User containing a welcome message and the Software Vulnerability Manager login credentials.

Right-click an existing account to view, edit or delete the partition.

Partition Administrators can choose Smart Groups to copy to another account using the Create/Edit User form.

Type	Scan Target
No Restrictions Configured	

Name	Description	Status	
Insecure installa...			<input type="checkbox"/>
high_and_above			<input type="checkbox"/>
from remote			<input type="checkbox"/>
Extremely Critical...			<input type="checkbox"/>
7-Day Critical Vu...	This will show all insecure products rated "Highly" or "Extremely Critical",...		<input type="checkbox"/>



**Note** • Sub-Accounts are not allowed to modify their copy of a Smart Group.

The Partition Administrator can also unshare a copy of a Smart Group.

If the Sub-Account already has a Smart Group of the same name and type, the Partition Administrator cannot share their copy with them.

If the Partition Administrator modifies the Smart Group, all shared copies are also modified.

If the Partition Administrator deletes the Smart Group, all shared copies are also deleted.

## Grant User Access to all Completed Scans and Single Host Agent Entries

Partition Administrators can permit a user or administrator to view all Completed Scans and Single Host Agents by selecting a check box in the User Account Details form.

When enabled, the user will be able to see the Completed Scans and Single Host Agents from all other users in their partition.

View / Edit User

**Account Details**

Name: bдобре\_user1

Username: bдобре\_user1

Email: [Redacted]

☐ Generate a new one-time password and email it to the address specified above

☒ Allow User to see the Complete Scans and Single Host Agents from all other Users

Host License Limit: ☒ No Limit 0 (11 Host Licenses Available)

**Recipient Details**

Enter an email address and (optionally) a mobile number to be used for emails, notifications and alerts the Flexera Software Vulnerability Manager can be configured to send.

Email: [Redacted]

Mobile Number: ( [Redacted] ) [Redacted]



**Note** • This functionality is not available when editing a Partition Administrator or when creating a new user or administrator, only when editing an existing one.





# Appendix B - About Secunia Advisories

This section includes the following articles:

- [CVSS \(Common Vulnerability Scoring System\)](#)
- [CVE References](#)
- [Where \(Attack Vector\)](#)
- [Criticality \(Severity Rating\)](#)
- [Impact \(Consequence\)](#)

## CVSS (Common Vulnerability Scoring System)

The Common Vulnerability Scoring System (CVSS) provides an open framework for communicating the characteristics and impacts of IT vulnerabilities.

CVSS enables IT managers, vulnerability bulletin providers, security vendors, application vendors, and researchers to all benefit by adopting this common language of scoring IT vulnerabilities.

CVSS consists of three groups: Base, Temporal, and Environmental. Each group produces a numeric score ranging from 0 to 10, and a Vector; a compressed textual representation that reflects the values used to derive the score.

- **The Base group** represents the intrinsic qualities of a vulnerability.
- **The Temporal group** reflects the characteristics of a vulnerability that changes over time.
- **The Environmental group** represents the characteristics of a vulnerability that are unique to any user's environment.

For details on interpreting a CVSS vector, refer to <https://www.first.org/cvss/specification-document>.

Secunia Advisories include a Secunia derived CVSS score and vector, as well as a link to an implementation of the NIST CVSS calculator so that a user can adjust temporal and environmental metrics for advisories that match your Watch Lists.

The National Vulnerability Database (NVD) CVSS score/vector for each relevant CVE contained in an Advisory is also shown, and is similarly linked to the NIST CVSS calculator.

## CVE References

A CVE (Common Vulnerabilities and Exposures) name represents a unique, standardized name and description for a given vulnerability or exposure.

Searching on a CVE reference (for example CVE-2009-3793 or simply 2009-3793) will find all Secunia Advisories in the database that list that particular CVE as a reference.

An Advisory can contain more than one CVE reference, and not every Advisory has an associated CVE reference.

## Where (Attack Vector)

The following are Where (Attack Vector) values.

### Local System

Local system describes vulnerabilities where the attack vector requires that the attacker is a local user on the system.

### Local Network

From local network describes vulnerabilities where the attack vector requires that an attacker is situated on the same network as a vulnerable system (not necessarily a LAN).

This category covers vulnerabilities in certain services (for example, DHCP, RPC, administrative services, and so on), which should not be accessible from the Internet, but only from a local network and optionally a restricted set of external systems.

### Remote

From remote describes vulnerabilities where the attack vector does not require access to the system nor a local network.

This category covers services, which are acceptable to expose to the Internet (for example, HTTP, HTTPS, SMTP) as well as client applications used on the Internet and certain vulnerabilities, where it is reasonable to assume that a security conscious user can be tricked into performing certain actions.

## Criticality (Severity Rating)

The following are Severity Rating values.

### Extremely Critical

This value is typically used for remotely and easily exploitable vulnerabilities that are otherwise designated “highly critical” but also have been exploited in the wild before their publication (zero-day). These vulnerabilities typically exist in services like FTP, HTTP and SMTP or specific client systems such as email programs or browsers. Operating systems can also be prone to them—e.g., when font handling is performed on operating system level.

### Highly Critical

- This value is generally used for remotely and easily exploitable vulnerabilities that can lead to system compromise.

- Successful exploitation doesn't usually require any interaction, but there are no known exploits available at the time of disclosure.
- These vulnerabilities typically exist in services like FTP, HTTP and SMTP or specific client systems such as email programs or browsers. Operating systems can also be prone to them—e.g., when font handling is performed on operating system level.

### **Moderately Critical**

This value is usually used for remotely and easily exploitable denial-of-service vulnerabilities against services like FTP, HTTP and SMTP. Additionally, easily exploitable vulnerabilities that could lead to information disclosure or affect the integrity of a product can result in this criticality level.

This rating is also used for vulnerabilities allowing system compromise on LANs in services like SMB, RPC, NFS, LPD and similar services that are not intended for use over the Internet.

### **Less Critical**

This value is typically used for cross-site scripting and local privilege escalation vulnerabilities.

This rating is also used for vulnerabilities allowing exposure of sensitive data to local users.

### **Not Critical**

This value is typically used for very limited privilege escalation vulnerabilities and locally exploitable Denial of Service vulnerabilities.

This rating is also used for non-sensitive system information disclosure vulnerabilities (for example, remote disclosure of installation path of applications).

## **Impact (Consequence)**

The following are Consequence values.

### **Brute Force**

Used in cases where an application or an algorithm allows an attacker to guess passwords in an easy manner.

### **Cross-Site Scripting**

Cross-Site Scripting vulnerabilities allow a third party to manipulate the content or behavior of a web application in a user's browser, without compromising the underlying system.

Different Cross-Site Scripting related vulnerabilities are also classified under this category, including "script insertion" and "cross-site request forgery".

Cross-Site Scripting vulnerabilities are often used against specific users of a website to steal their credentials or to conduct spoofing attacks.

### **DoS (Denial of Service)**

This includes vulnerabilities ranging from excessive resource consumption (for example, causing a system to use a lot of memory) to crashing an application or an entire system.

## **Exposure of Sensitive Information**

Vulnerabilities where documents or credentials are leaked or can be revealed either locally or remotely.

## **Exposure of System Information**

Vulnerabilities where excessive information about the system (for example, version numbers, running services, installation paths, and similar) are exposed and can be revealed from remote and, in some cases, locally.

## **Hijacking**

Covers vulnerabilities where a user session or a communication channel can be taken over by other users or remote attackers.

## **Manipulation of Data**

This includes vulnerabilities where a user or a remote attacker can manipulate local data on a system, but not necessarily be able to gain escalated privileges or system access.

The most frequent type of vulnerabilities with this impact are SQL-injection vulnerabilities, where a malicious user or person can manipulate SQL queries.

## **Privilege Escalation**

Covers vulnerabilities where a user is able to conduct certain tasks with the privileges of other users or administrative users.

This typically includes cases where a local user on a client or server system can gain access to the administrator or root account, thus taking full control of the system.

## **Security Bypass**

Covers vulnerabilities or security issues where malicious users or people can bypass certain security mechanisms of the application. The actual impact varies significantly depending on the design and purpose of the affected application.

## **Spoofing**

Covers various vulnerabilities where it is possible for malicious users or people to impersonate other users or systems.

## **System Access**

Covers vulnerabilities where malicious people are able to gain system access and execute arbitrary code with the privileges of a local user.

## **Unknown**

Covers various weaknesses, security issues, and vulnerabilities not covered by the other impact types, or where the impact is not known due to insufficient information from vendors and researchers.



# Appendix C - CSV Export File Cross-References

When you export data from the Software Vulnerability Manager user interface to a CSV file, some values may differ. Each data set in this appendix includes a cross-reference table to explain the different values between the user interface and CSV file.

**Note** • Dates and times in the Software Vulnerability Manager database are created using the Coordinated Universal Time (UTC). In the UI, dates and times in UTC are converted to reflect your local time zone. This UTC date and time conversion is not possible for CSV reports, resulting in a date and time mismatch between the UI and CSV report.

**Note** • When you set the agent to scan “As soon as possible”, the date and time in the UI will be listed “As soon as possible” with a date in the past as the next scan date. In the CSV report, the scan date is the actual date from the Software Vulnerability Manager database without transformation.

This section provides a cross-reference for the following CSV file values:

- [Host Smart Group](#)
- [Advisory Smart Group](#)
- [Product Smart Group](#)
- [Scan Result](#)
- [Completed Scan](#)
- [Scheduled Exports](#)
- [Single Host Agent](#)
- [Smart Group Notifications](#)
- [User Management](#)

# Host Smart Group

For further information regarding the Business Impact terminology, see [Criticality \(Severity Rating\)](#).

## Advisory Smart Group

**Table C-1 •** Advisory Smart Group Values from the User Interface Versus the Exported CSV File

Advisory Smart Group Value	Software Vulnerability Manager User Interface	Exported CSV File
<b>Criticality - Extremely Critical</b>	5 bars (red)	1
<b>Criticality - Highly Critical</b>	4 bars (orange)	2
<b>Criticality - Moderately Critical</b>	3 bars (yellow)	3
<b>Criticality - Less Critical</b>	2 bars (light green)	4
<b>Criticality - Not Critical</b>	1 bar (green)	5
<b>Zero Day</b>	No	0
<b>Zero Day</b>	Yes	1
<b>Solution Status</b>	Unpatched	1
<b>Solution Status</b>	Vendor Patched	2
<b>Solution Status</b>	Vendor Workaround	3
<b>Solution Status</b>	Partial Fix	4
<b>Attack Vector</b>	From remote	1
<b>Attack Vector</b>	From local network	2
<b>Attack Vector</b>	Local system	3
<b>Impact</b>	System Access	1
<b>Impact</b>	Denial of Service	2
<b>Impact</b>	Privilege Escalation	3
<b>Impact</b>	Exposure of Sensitive Information	4
<b>Impact</b>	Exposure of System Information	5

**Table C-1** • Advisory Smart Group Values from the User Interface Versus the Exported CSV File (cont.)

Advisory Smart Group Value	Software Vulnerability Manager User Interface	Exported CSV File
<b>Impact</b>	Brute Force	6
<b>Impact</b>	Manipulation of Data	7
<b>Impact</b>	Spoofing	8
<b>Impact</b>	Cross Site Mapping	9

See [Appendix B - About Secunia Advisories](#) for further information regarding the following terminology:

- [Where \(Attack Vector\)](#)
- [Criticality \(Severity Rating\)](#)
- [Impact \(Consequence\)](#)

## Product Smart Group

For further information regarding the Criticality terminology, see [Criticality \(Severity Rating\)](#).

## Scan Result

**Table C-2** • Scan Result Values from the User Interface Versus the Exported CSV File

Scan Result Value	Software Vulnerability Manager User Interface	Exported CSV File
<b>Criticality - Extremely Critical</b>	5 bars (red)	1
<b>Criticality - Highly Critical</b>	4 bars (orange)	2
<b>Criticality - Moderately Critical</b>	3 bars (yellow)	3
<b>Criticality - Less Critical</b>	2 bars (light green)	4
<b>Criticality - Not Critical</b>	1 bar (green)	5
<b>Issued</b>	Number of days ago	Month, Day, Year
<b>Soft Type - OS</b>	1	1
<b>Soft Type - Program</b>	2	2



For further information regarding the Criticality terminology, see [Criticality \(Severity Rating\)](#).

## Completed Scan

**Table C-3 •** Completed Scan Values from the User Interface Versus the Exported CSV File

Completed Scan Values	Software Vulnerability Manager User Interface	Exported CSV File
<b>Time</b>	Date, Month, Year, Time (24-hour clock)	Month, Day, Year, Time (12-hour clock)
<b>Results Exist</b>	Yes	1
<b>Results Exist</b>	No	0
<b>Zombie Files</b>	included	(Blank)
<b>Zombie Files</b>	not included	0

## Scheduled Exports

**Table C-4 •** Scheduled Exports Values from the User Interface Versus the Exported CSV File

Scheduled Exports Values	Software Vulnerability Manager User Interface	Exported CSV File
<b>Frequency</b>	One-Time Export	0
<b>Frequency</b>	Hourly	1
<b>Frequency</b>	Daily	2
<b>Frequency</b>	Weekly	3
<b>Frequency</b>	Monthly	4
<b>Last Execution Status</b>	Failed	0
<b>Last Execution Status</b>	Success	(Blank)

# Single Host Agent

**Table C-5 •** Single Host Agent Values from the User Interface Versus the Exported CSV File

Single Host Agent Values	Software Vulnerability Manager User Interface	Exported CSV File
Platform	Mac OS X	11
Platform	Windows	21 or 31
Platform	Red Hat Linux	41

# Smart Group Notifications

**Table C-6 •** Smart Group Notifications Values from the User Interface Versus the Exported CSV File

Smart Group Notifications Values	Software Vulnerability Manager User Interface	Exported CSV File
Smart Group Type	Host	1
Smart Group Type	Product	2
Smart Group Type	Advisory	3
Always Notify	No	0
Always Notify	Yes	1
Frequency	One-Time Export	0
Frequency	Hourly	1
Frequency	Daily	2
Frequency	Weekly	3
Frequency	Monthly	4

# User Management

**Table C-7 •** User Management Values from the User Interface Versus the Exported CSV File

User Management Values	Software Vulnerability Manager User Interface	Exported CSV File
Host License Limit	No Limit	-1
User Type	User	0
User Type	Root Admin or Admin	1



# Appendix D - Threat Intelligence

Software Vulnerability Manager Threat Intelligence helps you prioritize the patching efforts.

In a world where there are more than 18,000 new vulnerabilities every year, being smart about prioritizing remediation efforts is essential. Leveraging our optional Threat Intelligence Module, another valuable layer of insight is provided to help you understand which of the vulnerabilities affecting your environment are actually being exploited in the wild.

Industry reports, including Gartner shows that between 6%-10% of the vulnerabilities disclosed each year actually are exploited in the wild. Turns out that most of these have medium CVSS scores, which are typically overlooked by organizations. With the insights provided by threat intelligence, it is possible better optimize the time spent remediating software vulnerabilities. Avoid spending time and resources in patching vulnerabilities that do not have evidence of exploitation, and favor those that do. Prioritization is crucial for effective risk mitigation and resource utilization.

Leveraging machine learning, artificial intelligence, and human curation from thousands of sources in the open, deep and dark web, our Threat Intelligence Module augments Software Vulnerability Manager's vulnerability intelligence with a Threat Score that provides the ultimate prioritization tool for your busy desktop operations teams.

This appendix explains how the Software Vulnerability Manager Threat Intelligence module helps the enterprises to manage their resources and Patching Vulnerabilities more effectively, the following topics are discussed in this section:

- [Evidence of Exploitation](#)
- [Criteria for the Threat Score Calculation](#)
- [Threat Score Calculation - Examples](#)
- [Threat Intelligence Data for Operations and Security](#)
- [Threat Score Locations](#)



**Note** • Please note the following:

- Secunia Advisory Threat Scores and Vulnerability (CVE) Threat Scores are each calculated as described in the [Criteria for the Threat Score Calculation](#) section (an Advisory score is not determined by simply adding related CVE Threat Scores).
- For pricing and availability, please contact your sales representative or contact us online at: <https://www.flexera.com/about-us/contact-us.html>

- For more details about the SVM or SVR Threat Intel Modules, please see our datasheet: <https://www.flexera.com/media/pdfs/datasheet-svm-threat-intelligence-module.pdf>

## Evidence of Exploitation

There are 10 primary rules that can impact the assigned Threat score and they are:

- It has been linked to remote access Trojan
- It has been linked to ransomware
- It has been linked to penetration testing tools
- It has been linked to malware
- It has been linked to an exploit kit
- It has been linked to a cyber exploit
- It has been linked to an exploit wild
- It has been linked to POC verified
- It has been linked to vulnerability developed tools
- It has been linked to verified intelligence

In Software Vulnerability Manager we provide the resulting score for any given Secunia Advisory to add value to the prioritization process. In Software Vulnerability Research, where a security persona requires more insight, we provide these Threat Scores for the Secunia Advisory, and for each vulnerability in the advisory. Further, we will show which of the rules above were triggered to arrive at the threat score presented.

## Criteria for the Threat Score Calculation

Triggered rules increase the score by the values identified in the chart below based on the highest severity level triggered.

**Table D-1 • Rules, Severity and Value**

Rule	Severity	Value
Recently Linked to Remote Access Trojan	Medium	+2
Historically Linked to Remote Access Trojan	Low	+1
Recently Linked to Ransomware	Medium	+2
Historically Linked to Ransomware	Low	+1
Recently Linked to Penetration Testing Tools	Medium	+2
Historically Linked to Penetration Testing Tools	Low	+1
Recently Linked to Malware	Medium	+2

**Table D-1 • Rules, Severity and Value**

Rule	Severity	Value
Historically Linked to Malware	Low	+1
Recently Linked to Exploit Kit	Medium	+2
Historically Linked to Exploit Kit	Low	+1
Linked to Recent Cyber Exploit	Low	+1
Linked to Historical Cyber Exploit	Low	+1
Recently exploited in the wild	Very Critical	+5
Exploited in the wild in the past year	Critical	+4
Historically exploited in the wild	High	+3
Recent remote code execution POC verified	Critical	+4
Recent POC verified	High	+3
Historical remote code execution POC verified	Medium	+2
Recent possible POC	Medium	+2
Historical POC verified	Low	+1
Tools to exploit the vulnerability developed recently	Medium	+2
Tools to exploit the vulnerability developed historically	Low	+1
Recently verified intelligence	High	+3
Historically Verified intelligence	Low	+1

The rule with the highest criticality determines the point range and the starting value for the Threat Score. The ranges for each are as follows:

**Table D-2 • Criticality - Ranges**

Criticality	From	To
Very Critical	71	99
Critical	45	70
High	24	44

**Table D-2 • Criticality - Ranges**

Criticality	From	To
Medium	13	23
Low	1	12
None	0	0



**Note** • when assigning a Threat Score to the SAID, we do not simply add up the scores for each associated vulnerability, but rather follow the same rules outlined here to calculate the Security Advisory threat score.

## Threat Score Calculation - Examples

Some examples to explain how we would arrive at a Threat Score.

### Example 1

A SAID has two CVEs; two come back as exploited.

#### Triggered Rules

The following rules are triggered:

- **CVE1 triggers**
  - Historically Linked to Remote Access Trojan
  - Recent remote code execution POC verified
- **CVE2 triggers**
  - Historically Linked to Exploit Kit

The Threat Score would be **51**.

#### Calculating the Score

The criticality range is set by the most critical rule triggered, which is critical. This sets the score's maximum and minimum range as between 45 and 70.

Item	Value
Base Score	+45
Recent remote code execution POC verified	+4
Linked to Recent Cyber Exploit	+1

Item	Value
Historically Linked to Remote Access Trojan	+1
<b>Threat Score (Sum of above values)</b>	<b>51</b>

## Example 2

A SAID has seven CVEs; and all come back as exploited.

### Triggered Rules


The following rule is triggered by all CVEs:

- **CVE1, CVE2, CVE3, CVE4, CVE5, CVE6 and CVE7 triggers**
  - Recently Linked to Malware

The Threat Score would be **23**.

### Calculating the Score

The criticality range is set by the most critical rule triggered, which is critical. This sets the score's maximum and minimum range as between 13 and 23.

Item	Value
Base Score	+13
Recently Linked to Malware	+2 * 7 CVE = +14
<b>Threat Score (Sum of above values)</b>	<b>27</b>
 <p><b>Note</b> • At this point, we have exceeded the maximum for a critical threat, which is 23, so the score is 23.</p>	

## Example 3

A SAID has one CVE and it comes back as exploited.

### Triggered Rules

The following rule is triggered:

- **CVE1 triggers**
  - Historically exploited in the wild

The Threat Score would be **27**.



### Calculating the Score

The criticality range is set by the most critical rule triggered, which is high. This sets the score's maximum and minimum range as between 24 and 44.

Item	Value
Base Score	+24
Historically exploited in the wild	+3
<b>Threat Score (Sum of above values)</b>	<b>27</b>

### Example 4

A SAID has many CVEs, none come back as exploited.

The score would be **0** because there are no rules triggered.

### Advisory with Multiple Vulnerabilities

An advisory Threat Score is based upon each of the CVEs included in an Advisory as specified above. In Software Vulnerability Research, the vulnerabilities that have exploits are indicated with a red circle for easier identification.

## Threat Intelligence Data for Operations and Security

Software Vulnerability Manager and Software Vulnerability Research cater to different audiences with different needs. Software Vulnerability Manager (for operations) provides what is needed for Operations to better prioritize remediation efforts. Whereas Software Vulnerability Research (for security) provides more detail to meet the needs of security teams.

**Table D-3 •** Software Vulnerability Manager vs. Software Vulnerability Research

Software Vulnerability Manager	Software Vulnerability Research
<ul style="list-style-type: none"><li>• Offers a Threat Score at the Advisory level</li></ul>	<ul style="list-style-type: none"><li>• Offers a Threat Score at the Advisory level</li><li>• Offers a Threat Score at the vulnerability level, within the advisory</li><li>• Offers a list of which rules were triggered to arrive at the Threat Score displayed</li></ul>

## Threat Score Locations

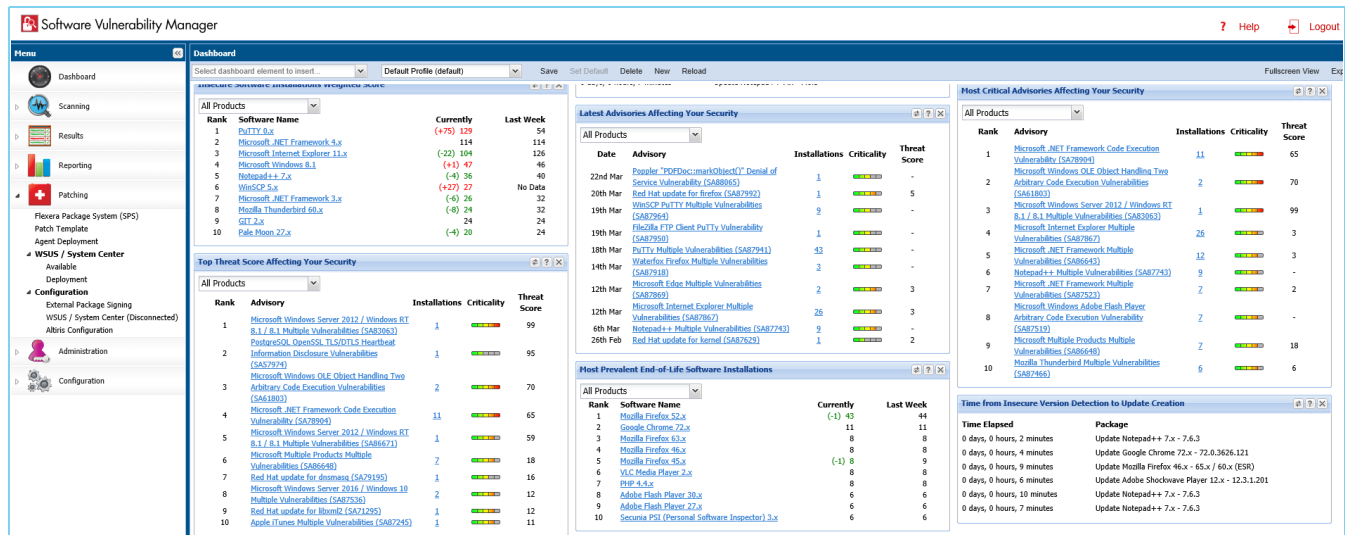
In Software Vulnerability Manager, subscribed users can find the Threat Score in the following places:

- [Dashboard Threat Score](#)

- Completed Scan Page Threat Score
- All Advisory Popup Threat Score
- All Installation Popup Threat Score
- Advisory Summary Threat Score
- Host Smart Group Threat Score
- Product Smart Group Threat Score
- Smart Group Criteria Threat Score
- All Advisory Threat Score
- All Advisory Smart Group Criteria Threat Score
- Zero Day Advisory Threat Score
- Flexera Package System (SPS) List Threat Score

## Dashboard Threat Score

The following image is an example of the Dashboard Threat Score.



## Completed Scan Page Threat Score

Once the scan is completed, the user can see the **Threat Score** in the **Scan Result**.

Overview

Scan Result

☒ Secure

☒ End-Of-Life

☒ Insecure

Export

Name	Version	State	SAID	Criticality	CVSS Base Score	Threat Score...	Issued	Vulnerabilities
Microsoft Windows 8.1	Windows 8.1 En...	Insecure	SA61803	<div><div></div><div></div><div></div><div></div><div></div></div>	v2: 10	70	1619 days ago	2
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA78904	<div><div></div><div></div><div></div><div></div><div></div></div>	v2: 10	62	563 days ago	1
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA78904	<div><div></div><div></div><div></div><div></div><div></div></div>	v2: 10	62	563 days ago	1
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA78904	<div><div></div><div></div><div></div><div></div><div></div></div>	v2: 10	62	563 days ago	1
Microsoft Word 2016 / O365	16.0.9126.2282	Insecure	SA86262	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	9	136 days ago	11
Microsoft Skype for Business 2016	16.0.9126.2282	Insecure	SA85499	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 7.8	5	171 days ago	5
Microsoft Visio 2016	16.0.9126.2282	Insecure	SA85499	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 7.8	5	171 days ago	5
Microsoft Access 2016 / O365	16.0.9126.2282	Insecure	SA85499	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 7.8	5	171 days ago	5
Microsoft Publisher 2016 / O365	16.0.9126.2282	Insecure	SA85499	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 7.8	5	171 days ago	5
Microsoft OneNote 2016 / O365	16.0.9126.2282	Insecure	SA85499	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 7.8	5	171 days ago	5
Microsoft Excel 2016 / O365	16.0.9126.2282	Insecure	SA86648	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	4	108 days ago	6
Microsoft Excel 2016 / O365	16.0.9126.2282	Insecure	SA86648	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	4	108 days ago	6
Microsoft Outlook 2016 / O365	16.0.9126.2282	Insecure	SA86648	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	4	108 days ago	6
Microsoft PowerPoint 2016 / O365	16.0.9126.2282	Insecure	SA86648	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	4	108 days ago	6
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA87867	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	3	17 days ago	12
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA87867	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 8.8	3	17 days ago	12
Pale Moon 27.x	27.2.0.6284	Insecure	SA83814	<div><div></div><div></div><div></div><div></div><div></div></div>	v3: 9.8	3	284 days ago	1

Page

1 of 7

Displaying products 1 - 27 of 179

Close

## All Advisory Popup Threat Score

When the user double clicks any of the products in the above screen, all the advisories related to that product appear along with their **Threat Score**.

QA\_WIN8

Overview **Scan Result**

☒ Secure ☒ End-Of-Life ☒ Insecure Export ▾

Name ▲	Version	State	SAID	Criticality	CVSS Base Score	Threat Score	Issued	Vulnerabilities
7-zip 16.x	16.0.0.0	End-Of-Life	-	-	-	-	-	-
Adobe Acrobat Reader DC 19.x	19.10.20098.54...	Secure	-	-	-	-	-	-
Adobe Flash Player 27.x	27							
Adobe Flash Player 27.x	27							
Apple Bonjour for Windows 3.x	3.1							
Apple Bonjour for Windows 3.x	3.1							
Apple Safari 5.x	5.0							
Apple Software Update 2.x	2.0							
Fiddler 5.x	5.0							
Google Chrome 72.x	72							
Google Toolbar 7.x	7.0							
Microsoft .NET Framework 4.x	4.0							
Microsoft .NET Framework 4.x	4.0							
Microsoft .NET Framework 4.x	4.0							
Microsoft .NET Framework 4.x	4.0							
Microsoft Access 2016 / O365	16							
Microsoft Excel 2016 / O365	16							
Microsoft Excel 2016 / O365	16							
Microsoft Internet Explorer 11.x	11							
Microsoft Internet Explorer 11.x	11							
Microsoft Malware Protection...	1.0							
Microsoft Malware Protection...	1.0							
Microsoft Malware Protection...	1.0							
Microsoft OneNote 2016 / O365	16							
Microsoft Outlook 2016 / O365	16							
Microsoft PowerPoint 2016 / ...	16							
Microsoft Publisher 2016 / O365	16							
Microsoft Security Essentials 4.x	4.7.213.0	Secure	-	-	-	-	-	-

**Microsoft .NET Framework 4.x**

View from the context of Smart Group: All Products

Overview **Installations** **All Advisories**

Export ▾

SAID ▾	Advis...	Criticality	Threat Score	Advisory Publish...	Solution Status	Attack Vector	Zero Day	CVSS Base Sco
<a href="#">SA87523</a>	Micros...		2	2019-02-13	Vendor Patched	From remote	No	v3: 7.8
<a href="#">SA86939</a>	Micros...		-	2019-01-08	Vendor Patched	From remote	No	v3: 5.3
<a href="#">SA86643</a>	Micros...		3	2018-12-11	Vendor Patched	From remote	No	v3: 9.8
<a href="#">SA85069</a>	Micros...		2	2018-09-11	Vendor Patched	From remote	No	v3: 7.8
<a href="#">SA84667</a>	Micros...		-	2018-08-14	Vendor Patched	From remote	No	v3: 5.8
<a href="#">SA84046</a>	Micros...		5	2018-07-11	Vendor Patched	From remote	No	v3: 9.8
<a href="#">SA83044</a>	Micros...		-	2018-05-08	Vendor Patched	From remote	No	v2: 7.8
<a href="#">SA80918</a>	Micros...		3	2018-01-10	Vendor Patched	From remote	No	v2: 7.8
<a href="#">SA78904</a>	Micros...		93	2017-09-12	Vendor Patched	From remote	Yes	v2: 10
<a href="#">SA77765</a>	Micros...		3	2017-07-11	Vendor Patched	From remote	No	v2: 7.8
<a href="#">SA76746</a>	Micros...		3	2017-05-09	Vendor Patched	From remote	No	v2: 7.8
<a href="#">SA76680</a>	Micros...		2	2017-05-09	Vendor Patched	From remote	No	v2: 6.4
<a href="#">SA76228</a>	Micros...		2	2017-04-11	Vendor Patched	From remote	No	v2: 10
<a href="#">SA74257</a>	Micros...		2	2016-12-13	Vendor Patched	From remote	No	v2: 5

Page 1 of 4 Displaying advisories 1 - 15 of 53

Close

Page 1 of 8 Displaying products 1 - 27 of 191

Close

## All Installation Popup Threat Score

When the user double clicks the product and selects the **Installations** tab, all the installations of that product get appear along with their **Threat Score**.

**QA\_WIN8**

Overview **Scan Result**

☒ Secure ☒ End-Of-Life ☒ Insecure Export ▾

Name ▲	Version	State	SAID	Criticality	CVSS Base Score	Threat Score	Issued	Vulnerabilities
7-zip 16.x	16.0.0.0	End-Of-Life	-	-	-	-	-	-
Adobe Acrobat R...								
Adobe Flash Play...								
Adobe Flash Play...								
Apple Bonjour for...								
Apple Bonjour for...								
Apple Safari 5.x								
Apple Software U...								
Fiddler 5.x								
Google Chrome 7...								
Google Toolbar 7...								
Microsoft .NET Fr...								
Microsoft .NET Fr...								
Microsoft .NET Fr...								
Microsoft Access...								
Microsoft Excel 2...								
Microsoft Excel 2...								
Microsoft Internet...								
Microsoft Internet...								
Microsoft Malwar...								
Microsoft Malwar...								
Microsoft Malwar...								
Microsoft OneNot...								
Microsoft Outlook...								
Microsoft PowerP...								
Microsoft Publisher 2016 / O365	16.0.9126.2295	Secure	-	-	-	-	-	-
Microsoft Security Essentials 4.x	4.7.213.0	Secure	-	-	-	-	-	-

Microsoft .NET Framework 4.x

View from the context of Smart Group: All Products

Overview **Installations** All Advisories

☒ Secure ☒ End-Of-Life ☒ Insecure Export ▾

Host ▲	SAID	Criticality	Threat Score	State	Version	Last Scan	Path
BANG...	-	-	-	Secure	4.7.3062.0	10 days ago	c:\windows\microsoft.net\framework\v4.0.30319\sm
BANG...	-	-	-	Secure	4.7.3062.0	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
BANG...	-	-	-	Secure	4.7.3062.0	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
CS17-...	SA86643		3	Insecure	KB4471327, KB44809...	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
CS17-...	SA86643		3	Insecure	KB4471327, KB44809...	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
CS17-...	SA86643		3	Insecure	KB4471327, KB44809...	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
CS17-...	SA87523		2	Insecure	KB4487017	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
CS17-...	SA87523		2	Insecure	KB4487017	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
CS17-...	SA87523		2	Insecure	KB4487017	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
CS17-...	-	-	-	Secure	4.0.30319.33440	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
CS17-...	-	-	-	Secure	4.0.30319.33440	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
CS17-...	-	-	-	Secure	4.0.30319.33440	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm
MAHO...	SA86643		3	Insecure	KB4340006, KB43456...	10 days ago	c:\windows\microsoft.net\assembly\gac_msil\sm
MAHO...	SA86643		3	Insecure	KB4340006, KB43456...	10 days ago	c:\windows\microsoft.net\framework64\v4.0.30319\sm

Page 1 of 4

Displaying hosts 1 - 14 of 43

Close

Page 1 of 8

Displaying products 1 - 27 of 191

Close

## Advisory Summary Threat Score

After Clicking on any **SAID**, a popup appears with the **Threat Score** and other required details.

QA\_WIN8

Overview

Scan Result

☐ Secure
 ☐ End-Of-Life
 ☒ Insecure
 

Export

Name	Version	State	SAID	Criticality	CVSS Base Score	Threat Score	Issued	Vulnerability
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386		v2: 7.5	4	1298 days ago	
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386		v2: 7.5	4	1298 days ago	
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386		v2: 7.5	4	1298 days ago	
Microsoft Excel 2016 / O365	16.0.9126.2295	Insecure	SA86648		v3: 8.8	4	108 days ago	
Microsoft Excel 2016 / O365	16.0.9126.2295	Insecure	SA86648		v3: 8.8	4	108 days ago	
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA86719		v3: 8.8	52	99 days ago	
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA86719		v3: 8.8	52	99 days ago	
Microsoft Outlook 2016 / O365	16.0.9126.2295	Insecure	SA86648		v3: 8.8	4	108 days ago	
Microsoft PowerPoint 2016 / O365	16.0.9126.2295	Insecure	SA86648		v3: 8.8	4	108 days ago	
Microsoft Windows 8.1	Windows 8.1 Enterpri...	Insecure	SA86671		v3: 9.8	59	108 days ago	
Microsoft Word 2016 / O365	16.0.9126.2295	Insecure	SA86262		v3: 8.8	9	136 days ago	
Mozilla SeaMonkey 2.x	2.32	Insecure	SA84457		v3: 8.8	7	245 days ago	

Microsoft PowerPoint 2016 / O365

View from the context of Smart Group: All Products

Overview

Installations

All Advisories

Export

SAID	Advisory Description	Criticality	Threat Score	Advisory Publish...	Solution Status	Attack Vector	Zero Day	CVSS Base Score	Vulnerabilities
SA86648	Microsoft Multiple Products Multiple Vu...		4	2018-12-11	Vendor Patched	From remote	No	v3: 8.8	
SA85499	Microsoft Multiple Products Multiple Vu...		5	2018-10-09	Vendor Patched	From remote	No	v3: 7.8	
SA85074	Microsoft Multiple Products Multiple Vu...		19	2018-09-11	Vendor Patched	From remote	No	v3: 8.8	
SA84672	Microsoft Multiple Products Multiple Vu...		7	2018-08-15	Vendor Patched	From remote	No	v2: 5 v3: 8.8	

Microsoft Multiple Products Multiple Vulnerabilities

Secunia Advisory Summary

Secunia Advisory ID: SA86648

Creation Date: 2018-12-11

Criticality: - Highly critical

Threat Score: 4

Impact: Exposure of sensitive information  
System access

Where: From remote

Solution Status: Vendor Patched

Secunia CVSS3 Scores: Base: 8.8, Overall: 8.2 CVSS:3.0/AV:N/AC:L/PR:N/UI:R/S:U/C:H/I:H/A:H/E:F/RL:O/RC:C

CVE Reference(s): CVE-2018-8587

Capture screenshot

Close

## Host Smart Group Threat Score

The **Threat Score** appears for all the products on the **Host Smart Group Scan Result** page.

Smart Group: "All Hosts" - Last Compiled: 2019-03-25 2:35:46

Showing All Sites Showing All Platforms Search

Host	System Score	Last Scan	Insecure	End-Of-Life	Secure	Total	Site Name	Scan Engine	Software Platform
BANGHV_QA_WIN8A	92%	14th Mar, 2019 19:36	4	5	103	112	abc	System Center	System Center
CS17-W10-145	73%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
CS17-WIN10-59	82%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
CS17-WIN8-181	72%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
localhost.localdomain	88%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
MAHOKWIN8	67%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
PSCCM	61%	21st Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
QA_WIN8	82%	20th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
QA_WIN81E	81%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
QA_WIN8_TEST	77%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
SBABAWIN10	65%	21st Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
SBABA_DEV	83%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
SUSHMACSIWIN7	92%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
SUSHMA_TESTWIN8	67%	21st Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
sushma_win81A	88%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
SUSHMA_WIN81B	68%	21st Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center
WIN-ANQ3V8P4RSB	0%	-	11	12	61	84	abc	System Center	System Center
WIN8-205-SCCM	77%	14th Mar, 2019 19:35	11	12	61	84	abc	System Center	System Center

Overview Scan Result

☐ Secure ☐ End-Of-Life ☒ Insecure

Export

Name	Version	State	SAID	Criticality	CVSS Base Score	Threat Score	Issued	Vulnerabilities
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386	7.5	v2: 7.5	4	1294 days ago	2
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386	7.5	v2: 7.5	4	1294 days ago	2
Microsoft .NET Framework 4.x	4.0.30319.33440	Insecure	SA66386	7.5	v2: 7.5	4	1294 days ago	2
Microsoft Excel 2016 / O365	16.0.9126.2295	Insecure	SA86648	8.8	v3: 8.8	4	104 days ago	6
Microsoft Excel 2016 / O365	16.0.9126.2295	Insecure	SA86648	8.8	v3: 8.8	4	104 days ago	6
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA87867	8.8	v3: 8.8	3	12 days ago	12
Microsoft Internet Explorer 11.x	11.0.9600.19036	Insecure	SA87867	8.8	v3: 8.8	3	12 days ago	12
Microsoft Outlook 2016 / O365	16.0.9126.2295	Insecure	SA86648	8.8	v3: 8.8	4	104 days ago	6
Microsoft PowerPoint 2016 / ...	16.0.9126.2295	Insecure	SA86648	8.8	v3: 8.8	4	104 days ago	6
Microsoft Windows 8.1	Windows 8.1 En...	Insecure	SA86671	9.8	v3: 9.8	59	104 days ago	10
Microsoft Word 2016 / O365	16.0.9126.2295	Insecure	SA86262	8.8	v3: 8.8	9	132 days ago	11
Mozilla SeaMonkey 2.x	2.32	Insecure	SA84457	8.8	v3: 8.8	7	241 days ago	11

Page 1 of 1

Displaying products 1 - 15 of 15

Close

## Product Smart Group Threat Score

The **Threat Score** appears for all the products on the **Product Smart Group Result** page.

Software Vulnerability Manager

Menu

- Dashboard
- Scanning
- Results
  - Sites (4)
  - Host Smart Groups
  - Product Smart Groups
    - Overview & Configuration
    - Configured Product Groups (28)
      - All Products (411)
      - 7-Day Critical Vulnerability Compliance (FROM TEMPL...
      - AAG (0)
      - assdas (0)
      - bmd (0)
      - End-Of-Life Products (32)

Smart Group: "All Products" - Last Compiled: 2019-03-29 3:52:26

Showing All Platforms Search

Product Name	Patch Version	SAID	Advisory Descrip...	Criticality	Threat Score	CVSS Base Score	CVSS2 Base Score	CVSS3 Base Score	Vendor
Microsoft Windows 8.1	KB2976897, KB3...	SA83063	Microsoft Windo...	7.5	99	v2: 10	10	0	Microsoft
Microsoft Windows 10	KB4485449, KB4...	SA87897	Microsoft Windo...	8.8	88	v3: 8.8	0	8.8	Microsoft
Microsoft .NET Framework 3.x	KB4041092, KB4...	SA78994	Microsoft .NET F...	62	62	v2: 10	10	0	Microsoft
Microsoft .NET Framework 4.x	KB3074228, KB4...	SA78994	Microsoft .NET F...	62	62	v2: 10	10	0	Microsoft
Microsoft Internet Explorer 11.x	KB4480963, KB4...	SA86719	Microsoft Intern...	52	52	v3: 8.8	0	8.8	Microsoft
Mozilla Thunderbird 60.x	60.5.1	SA88057	Mozilla Thunder...	17	17	v3: 8.8	0	8.8	Mozilla Foundati...
Dnsmaq 2.x		SA79195	Red Hat update...	16	16	v2: 8.3	8.3	0	
Libxml2		SA71295	Red Hat update...	12	12	v2: 10	10	0	
Apple iTunes 12.x	12.9.3	SA87245	Apple iTunes Mu...	12	12	v3: 8.8	0	8.8	Apple
Microsoft Word 2016 / O365	16.0.9126.2315	SA86262	Microsoft Multipl...	9	9	v3: 8.8	0	8.8	Microsoft
Mozilla SeaMonkey 2.x	2.49.4	SA84457	Mozilla SeaMonk...	7	7	v3: 8.8	0	8.8	Mozilla Foundati...
Microsoft .NET Framework 2.x	KB4055271, KB4...	SA84046	Microsoft .NET F...	5	5	v3: 9.8	0	9.8	Microsoft
JasPer 1.x		SA76863	Red Hat update...	5	5	v2: 10	10	0	

## Smart Group Criteria Threat Score

When creating the **Product Smart Group**, the **Threat Score** option is available for the **Criteria** specification. The result is displayed based on the selection. By default, the **Threat Score Criteria** is set to **70**.

**Product Smart Groups: Overview & Configuration**

Create New Smart Group | Queue For Compilation

Name	Description	Business Impact	Compilation
7-Day Critical V...			
AAG			
All Products			
assdas			
bmd			
End-Of-Life Pro			
Insecure install			
insecure os			
Insecure Produ			
Insecure_QAWI			
Patched Produc			
PCI Compliance			
qa2-bd-w7x86			
QA2-BD-W81x6			
said create bef			
SAID on March			
silent install			
test at least hi			
Threat Score is			
ThreatScore<7			
win10			

**Configure New Smart Group**

Smart Group Name: Threat Score

Description: Threat Score Test

Business Impact: Critical

Contains products that match **all** of the following criteria:

**Criteria**

Threat Score is at least 70

**Customize Columns**

A Product Smart Group's contents grid will always show the "Product Name" column for each product. Use this form to control which additional columns are shown in the grid view. Mouseover a checkbox for the column description.

☒ Select All ☐ Select Custom

☒ Patch Version ☒ Criticality ☒ Threat Score ☒ CVSS Base Score ☒ Insecure ☒ End-Of-Life ☒ Secure ☒ Total ☒ Affected Hosts ☒ Download ☒ Product Type

Templates Save Close

## All Advisory Threat Score

The **Threat Score** is made available in the **All Advisories** page.

**Software Vulnerability Manager** Help Logout

Smart Group: "All Advisories" - Last Compiled: 2019-03-29 3:52:30

SAID	Advisory Description	Criticality	Threat Score	Zero-Day	Advisory Published	Vulnerability	Solution Status	CVSS Base Score	CVSS2 Base Score	CVSS3 Base Score	Attack Vector	Impact	Installation
SAB2839	7-zip Memory Corruption Vulnerability	High	2	No	1st Mar, 2018	1	Vendor Patched	V2: 10	10	0	From Remote	System Access	
SAB7505	Adobe Flash Player Information Disclo...	Medium	-	No	12th Feb, 2019	1	Vendor Patched	V3: 4.3	0	4.3	From Remote	Exposure of Sensitive Informati...	
SAB7506	Adobe Reader / Acrobat Information...	Medium	3	No	21st Feb, 2019	1	Vendor Patched	V3: 4.3	0	4.3	From Remote	Exposure of Sensitive Informati...	
SAB8028	Adobe Shockwave Player Memory Corr...	Medium	3	No	14th Nov, 2017	1	Vendor Patched	V2: 10	10	0	From Remote	System Access	
SAB7245	Apple iTunes Multiple Vulnerabilities	High	12	No	25th Jan, 2019	13	Vendor Patched	V3: 8.8	0	8.8	From Remote	Cross Site Scripting, Security By...	
SAB7950	FileZilla FTP Client PuTTY Vulnerability	Medium	-	No	19th Mar, 2019	1	Vendor Patched	V3: 5.6	0	5.6	From Remote	undefined	
SAB5494	Git Arbitrary Command Execution Vul...	High	3	No	8th Oct, 2018	1	Vendor Patched	V3: 7.5	0	7.5	From Remote	System Access	
SAB7946	libssh2 Multiple Vulnerabilities	High	-	No	18th Mar, 2019	4	Vendor Patched	V3: 8.9	0	8.8	From Remote	System Access	
SAB7068	Microsoft .NET Framework Code Exec...	High	62	Yes	12th Sep, 2017	1	Vendor Patched	V2: 10	10	0	From Remote	System Access	
SAB6643	Microsoft .NET Framework Multiple Vu...	High	3	No	11th Dec, 2018	2	Vendor Patched	V3: 9.0	0	9.8	From Remote	Denial of Service, System Acces...	
SAB7523	Microsoft .NET Framework Multiple Vu...	High	2	No	13th Feb, 2019	2	Vendor Patched	V3: 7.8	0	7.8	From Remote	Security Bypass, System Access	
SAB6946	Microsoft .NET Framework Multiple Vu...	High	5	No	11th Jul, 2018	4	Vendor Patched	V3: 9.0	0	9.8	From Remote	Security Bypass, Privilege Escal...	
SAB6939	Microsoft .NET Framework Security By...	High	-	No	8th Jan, 2016	1	Vendor Patched	V3: 5.3	0	5.3	From Remote	Security Bypass	
SAB6432	Microsoft .NET Framework Signed XM...	High	2	No	8th Mar, 2016	1	Vendor Patched	V2: 9	5	0	From Remote	Security Bypass	
SAB6386	Microsoft .NET Framework Two Vulner...	High	4	No	8th Sep, 2015	2	Vendor Patched	V2: 7.5	7.5	0	From Remote	Security Bypass, Denial of Servi...	
SAB6719	Microsoft Internet Explorer Memory C...	High	52	Yes	20th Dec, 2018	1	Vendor Patched	V3: 8.8	0	8.8	From Remote	System Access	
SAB7867	Microsoft Internet Explorer Multiple Vu...	High	3	No	12th Mar, 2019	12	Vendor Patched	V3: 8.8	0	8.8	From Remote	Security Bypass, Exposure of Se...	
SAB5499	Microsoft Multiple Products Multiple V...	High	5	No	9th Oct, 2018	5	Vendor Patched	V3: 7.8	0	7.8	From Remote	Exposure of Sensitive Informati...	
SAB6262	Microsoft Multiple Products Multiple V...	High	9	No	13th Nov, 2018	11	Vendor Patched	V3: 8.9	0	8.8	From Remote	Security Bypass, System Access	
SAB6488	Microsoft Multiple Products Multiple V...	High	4	No	11th Dec, 2018	6	Vendor Patched	V3: 8.8	0	8.8	From Remote	Exposure of Sensitive Informati...	
SAB7319	Microsoft Windows Adobe Flash Player...	High	-	No	12th Feb, 2019	1	Vendor Patched	V3: 8.8	0	8.8	From Remote	System Access	
SAB6673	Microsoft Windows Kernel Information...	High	4	No	12th Aug, 2014	3	Vendor Patched	V3: 6.4	6.8	0	From Local System	Exposure of Sensitive Informati...	

## All Advisory Smart Group Criteria Threat Score

When creating the **Advisory Smart Group**, the **Threat Score** option is available for the **Criteria** specification. The result is displayed based on the selection. By default, the **Threat Score Criteria** is set to **70**.



**Advisory Smart Groups: Overview & Configuration**

Create New Smart Group | Queue For Compilation

Name	Description	Business Impact	Compilation	Data Last Compiled	Modified Date	Advisories
Advisory_Threat_ScoreAtle...			Complete	25th Mar, 2019 02:35	14th Mar, 2019 19:18	3
<b>All Advisories</b>	Smart Group containing all Advisories (default Secunia Smart Group)		Complete	25th Mar, 2019 02:35	9th Apr, 2015 16:44	75

**Configure New Smart Group**

Smart Group Name:

Description:

Business Impact:

Contains advisories that match  of the following criteria:

**Criteria**

is

**Customize Columns**

An Advisory Smart Group's contents grid will always show the Secunia Advisory ID and Description for each entry. Use this form to control which additional columns are shown in the grid view. Mouseover a checkbox for the column description.

☒ Select All ☐ Select Custom

<input checked="" type="checkbox"/> Criticality	<input checked="" type="checkbox"/> Threat Score	<input checked="" type="checkbox"/> Zero-Day	<input checked="" type="checkbox"/> Advisory Published	<input checked="" type="checkbox"/> Vulnerabilities	<input checked="" type="checkbox"/> Solution Status	<input checked="" type="checkbox"/> CVSS Base Score	<input checked="" type="checkbox"/> Attack Vector	<input checked="" type="checkbox"/> Impact	<input checked="" type="checkbox"/> Installations	<input checked="" type="checkbox"/> Products	<input checked="" type="checkbox"/> Hosts
---	--	--	--	---	---	---	---	--	---	--	---

Save Close

## Zero Day Advisory Threat Score

The Threat Score appears in the **Zero Day Advisories** page. This result may vary with the data seen in the result section. The **All Advisories** page has the latest result as it is directly pulled from the vulnerability track table.

Software Vulnerability Manager						
Zero-Day Advisories						
Scope of Data: <input checked="" type="radio"/> Advisories that Affected You <input type="radio"/> All Advisories						
Zero-Day SAID	Advisory Description	Criticality	Advisory Published	Threat Score	Vulnerability	Affected Installations
<a href="#">SA87744</a>	Google Chrome FileReader Use-After-Free Vulnerability		4th Mar, 2019	18	1	3
<a href="#">SA86719</a>	Microsoft Internet Explorer Memory Corruption Vulnerability		20th Dec, 2018	52	1	32
<a href="#">SA86517</a>	Adobe Flash Player Multiple Vulnerabilities		5th Dec, 2018	95	2	3
<a href="#">SA85519</a>	Microsoft Windows Server 2008 / Windows 7 Multiple Vulnerabilities		9th Oct, 2018	23	14	1
<a href="#">SA85518</a>	Microsoft Windows Server 2012 / Windows RT 8.1 / 8.1 Multiple Vulnerabilities		9th Oct, 2018	23	15	1
<a href="#">SA85514</a>	Microsoft Windows Server 2016 / Windows 10 Multiple Vulnerabilities		9th Oct, 2018	23	22	3
<a href="#">SA84665</a>	Microsoft Internet Explorer Multiple Vulnerabilities		14th Aug, 2018	67	11	32
<a href="#">SA83644</a>	Adobe Flash Player Multiple Vulnerabilities		7th Jun, 2018	60	4	2
<a href="#">SA81412</a>	Adobe Flash Player Multiple Use-After-Free Vulnerabilities		1st Feb, 2018	99	2	2
<a href="#">SA79397</a>	Microsoft Multiple Products Memory Corruption Vulnerability		10th Oct, 2017	53	1	1
<a href="#">SA78904</a>	Microsoft .NET Framework Code Execution Vulnerability		12th Sep, 2017	93	1	53
<a href="#">SA76734</a>	Microsoft Windows 7 Multiple Vulnerabilities		9th May, 2017	70	27	1
<a href="#">SA76722</a>	Microsoft Windows Server 2012 Multiple Vulnerabilities		9th May, 2017	70	26	1
<a href="#">SA76703</a>	Microsoft Office Multiple Products Multiple Vulnerabilities		9th May, 2017	62	6	1
<a href="#">SA76672</a>	Microsoft Internet Explorer Multiple Vulnerabilities		9th May, 2017	20	6	32
<a href="#">SA76271</a>	Microsoft Office Multiple Vulnerabilities		10th Apr, 2017	99	8	2
<a href="#">SA76226</a>	Microsoft Internet Explorer Multiple Vulnerabilities		11th Apr, 2017	5	3	32
<a href="#">SA75547</a>	Microsoft Internet Explorer Multiple Vulnerabilities		24th Feb, 2017	70	12	32
<a href="#">SA73948</a>	Mozilla Firefox / Firefox ESR SVG Animation Use-After-Free Vulnerability		30th Nov, 2016	17	1	8
<a href="#">SA72985</a>	Microsoft Multiple Products RTF Memory Corruption Vulnerability		11th Oct, 2016	52	1	1
<a href="#">SA72977</a>	Microsoft Products Multiple Vulnerabilities		11th Oct, 2016	7	8	87
<a href="#">SA72953</a>	Microsoft Internet Explorer Multiple Vulnerabilities		11th Oct, 2016	66	10	32
<a href="#">SA72380</a>	Microsoft Internet Explorer Multiple Vulnerabilities		13th Sep, 2016	65	10	32
<a href="#">SA70398</a>	Microsoft Internet Explorer Multiple Vulnerabilities		10th May, 2016	99	5	32
<a href="#">SA69989</a>	Microsoft Windows Privilege Escalation and Pool Corruption Multiple Vulnerabilities		12th Apr, 2016	20	4	16
<a href="#">SA67695</a>	Microsoft Windows Multiple Privilege Escalation Vulnerabilities		8th Dec, 2015	5	4	16
<a href="#">SA67666</a>	Microsoft Office Multiple Products Multiple Vulnerabilities		8th Dec, 2015	8	6	1
<a href="#">SA66378</a>	Microsoft Office Multiple Products Multiple Vulnerabilities		8th Sep, 2015	61	7	2
<a href="#">SA66360</a>	Microsoft Multiple Products Multiple Vulnerabilities		8th Sep, 2015	23	11	17

# Flexera Package System (SPS) List Threat Score

The Threat Score appears in the Flexera Package System (SPS) list, which helps user to prioritize patches.

Software Vulnerability Manager

Menu

Dashboard

Scanning

Results

Reporting

Patching

Flexera Package System (SPS)

Patch Template

Agent Deployment

WSUS / System Center Available

Flexera Package System (SPS)

Search Type: Product

Search text ...

Search

View from the context of Smart Group: All Products

Configure View

New Custom Package

Product	Vendor	Patched Version	Architecture	SAID	Criticality	Threat Score	Detected
Product: Mozilla Thunderbird 60.x (1 Item)							
Mozilla Thunderbird 60.x	Mozilla Foundation	60.5.1	Windows32-bit	SA88057	<div><div></div><div></div><div></div><div></div><div></div></div>	17	0 days, 0 hours...
Product: Apple iTunes 12.x (1 Item)							
Apple iTunes 12.x	Apple	12.9.3	Windows32-bit	SA87245	<div><div></div><div></div><div></div><div></div><div></div></div>	12	0 days, 0 hours...
Product: Mozilla SeaMonkey 2.x (1 Item)							
Mozilla SeaMonkey 2.x	Mozilla Foundation	2.49.4	Windows32-bit	SA84457	<div><div></div><div></div><div></div><div></div><div></div></div>	7	0 days, 0 hours...
Product: Adobe Shockwave Player 12.x (1 Item)							
Adobe Shockwave Player 12.x	Adobe Systems	12.3.1.201	Windows32-bit	SA80028	<div><div></div><div></div><div></div><div></div><div></div></div>	3	0 days, 0 hours...
Product: 7-zip 18.x (1 Item)							
7-zip 18.x		18.05	Windows64-bit	SA82839	<div><div></div><div></div><div></div><div></div><div></div></div>	2	0 days, 0 hours...





# Appendix E - Troubleshooting Techniques

This appendix explains Troubleshooting Techniques of the Software Vulnerability Manager:

- [Intune](#)
- [Patch Daemon](#)

## Intune

This section includes the following topics:

- [Pre-requisites](#)
- [Publishing](#)
- [SVM Patch Configuration](#)
- [SVM Patch Configuration / General Tab](#)
- [Troubleshooting Tips](#)
- [FAQs](#)

## Pre-requisites

Intune POC (Proof of Concept) requires the following prerequisites:

- For Intune connection details, refer Add Intune API Application (Client) ID and Directory (Tenant) ID on Intune Connection. For more details, see [Intune Publishing](#) and [Set up a Distribution Connection in Flexera SVM Patch Configuration for Microsoft Intune](#).
- To get Application (Client) ID, Directory (Tenant) ID, and Client Secret app registration need to be done. For more details, see [App Registration](#) and [Create Client Secret](#).
- Make sure that the following Intune Graph API Permission are available to the user. For more details, see [API Permissions](#).

- Make sure that you have at least five to eight distribution endpoints in your sample test environment.
- To enroll a device/endpoint to an Intune follow this link <https://docs.microsoft.com/en-us/mem/intune/user-help/enroll-windows-10-device>
- For each endpoint, please ensure:
  - Endpoints have been recently booted up to ensure there are no pending updates that could hinder Intune publishing.
  - The credentials that will publish to endpoint has permissions to run PowerShell scripts - not required.
  - If installing Win32 apps then antimalware settings should exclude the following directories

On x64 client machines:

- C:\Program Files (x86)\Microsoft Intune Management Extension\Content
- C:\windows\IMECache

On x86 client machines:

- C:\Program Files\Microsoft Intune Management Extension\Content
- C:\windows\IMECache

## Publishing

Once the pre-requisites are completed, you can begin publishing from the SVM console.

To create and publish the package, see [Create and Publish the Package](#).

In Step 4 of the Publishing Wizard, use Schedule package to Patch Daemon and publish.

**Step 4 of 4: Applicability Criteria - Rules**

Here you configure the applicability rules for the package.

**Language Settings**

Configure package applicability rules based on language:

☐ Only make package applicable to computers with one of the selected languages.

Select Languages:

- Language
- Arabic
- Chinese (Hong Kong SAR)
- Chinese - (Simplified)
- Chinese - (Traditional)
- Czech
- Danish

**Export Patch Script**

Before publishing XML patch script to your file system, you have the option to configure XML file. Note: As you might wish to share this package, for example via the community forum, you can choose to not include the package files as binary and the applicability paths from Step 3, as your paths may contain private user data.

☐ Do not include Step 3 Applicability Paths in XML File.

☒ Do not include package file(s) as binary in XML File.

**Patch Template (Optional)**

Save as template

Template Name:

**Publish Options**

Select option for publishing Flexera package

Publish package using:

- ☐ WSUS (via ActiveX)
- ☒ Schedule package to Intune/WSUS
- ☐ Altiris
- ☐ Export Patch Script
- ☐ Cabinet File (Export)
- ☐ Save Template

Previous | Next | Publish | Cancel

## SVM Patch Configuration

The Flexera SVM Patch Configuration Tool can control the publish into Intune.

**Flexera SVM Patch Configuration**

WSUS | Intune | Workspace ONE | SVM | General

**Distribution System**

Distribution To:

**Logging**

Log File:

Log Level:

**Check-In Settings**

Check-In Frequency:  Days  Hours  Minutes

☒ Get all Latest Subscribed Packages

**Output Window:**

[5:34:52 AM] Executing the command:  
PollTasksNow

For more information on Intune connection, see [Flexera SVM Patch Configuration](#).

## SVM Patch Configuration / General Tab

To set SVM Patch Configuration, perform the following steps.



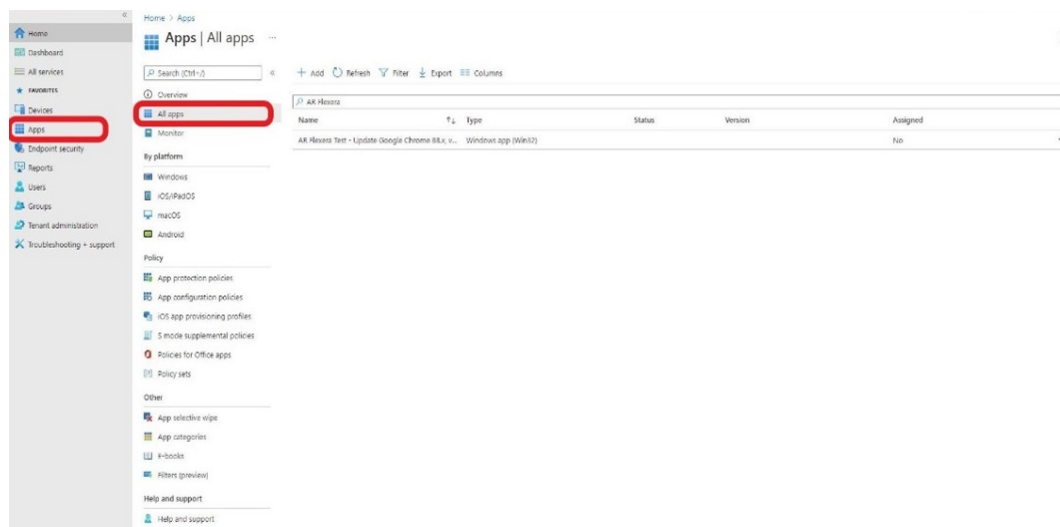
**To configure:**

1. In the General Tab set the **Distribution To: Microsoft Intune**.
2. You can click **Force Check-In Now** to distribute to Intune immediately or wait for the Check-In.
3. You can check log file (c:\ProgramData\Flexera Software\SVM Patch\svmpatch.log) for confirmation that publishing happened to Intune. Here is a sample line:

```
[26/05/2021 16:09:35[V] [POST data]: {"data":{"package_id":"f8072330-ddd2-469f-8762-e3cd28a2969d","error":""},"status":"success","task_type":"publish_package"}
```

[illegible]

- 4.** You can then check for your app in Intune.



- 5.** Now that your Application is in Intune, you can decide how to distribute.

## Troubleshooting Tips

Following are the troubleshooting tips for Intune:

- Intune log file location is C:\ProgramData\Microsoft\IntuneManagementExtension\Logs. For detailed debugging check IntuneManagementExtension.log. Search for package name / Application ID.
- Use %WinDir%\CCM\CMTrace.exe tool to read Intune logs.
- Installation status of SPS package logged at C:\windows\SecuniaPackage.log
- If install fails most time the reason is, the file in use by other application. In such cases, restart the machine. Some other common reasons are listed [here](#).

- Debugging for PowerShell script not running, refer <https://docs.microsoft.com/en-us/mem/intune/apps/intune-management-extension#issue-powershell-scripts-do-not-run>
- Check whether the service **Microsoft Intune Management Extension** is running in endpoint.
- Intune Management extension polls for packages for every hour. We can do force polling by restarting the Microsoft Intune Management Extension service.
- Once the package gets installed, it takes at least five minutes to reflect in Apps section of Intune interface. Sort by Date created to list recently published packages.

## FAQs

The following table provides answers to frequently asked questions regarding Intune application.

**Table E-1 • FAQs**

Question	Answer
<b>Do endpoints need to have PowerShell execution policy to allow script execution?</b>	Not required to have execution permissions for a patch to get installed. We made <b>Enforce script signature check and run script silently</b> in detection scripts to No for an Intune application. Hence it bypasses the execution-policy and runs irrespective of the execution policy being set in endpoint.
<b>Do any files be excluded from virus scanning in endpoints?</b>	<p>Antimalware settings should exclude the following Intune directories:</p> <ul style="list-style-type: none"> <li>● On x64 client machines: <ul style="list-style-type: none"> <li>● C:\Program Files (x86)\Microsoft Intune Management Extension\Content</li> <li>● C:\windows\IMECache</li> </ul> </li> <li>● On x86 client machines: <ul style="list-style-type: none"> <li>● C:\Program Files\Microsoft Intune Management Extension\Content</li> <li>● C:\windows\IMECache</li> </ul> </li> </ul> <p>More details, see <a href="https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-troubleshoot">https://docs.microsoft.com/en-us/mem/intune/apps/apps-win32-troubleshoot</a></p>
<b>Is it possible to deploy the agent via Intune?</b>	Yes via a feature in the product introduced in the April release of the Patch Daemon (version 5.0.385 and above).
<b>What permissions does the Patch Daemon account require? Does it require PowerShell script execution rights?</b>	<ul style="list-style-type: none"> <li>● It requires an account which has access directory as an administrator with rights to create new app registrations.</li> <li>● It does not require PowerShell execution permissions as PowerShell is not leveraged when publishing a package to Intune.</li> </ul>



# Patch Daemon

This section includes the following topics:

- [Pre-requisites](#)
- [Publishing a Package from Patch Daemon without Local Administrator Rights](#)

## Pre-requisites

Patch Daemon requires the following pre-requisites:

- Software Vulnerability Management Patch Daemon needs RSAT (Remote Server Administration Tools) for Windows 10, to manually install for Windows 1809 and below, download from <https://www.microsoft.com/en-us/download/details.aspx?id=45520>. For latest Windows 10, Settings > Optional Features > Add Feature > RSAT: Windows Server Update Services Tools.
- Download SVM Patch Daemon at <https://resources.flexera.com/tools/SVM/SVMClientToolkitInstall.msi>

## Publishing a Package from Patch Daemon without Local Administrator Rights

Perform the following steps to publish a package from Patch Daemon without local Admin rights.



### Task

#### **To publish a package from Patch Daemon without Local Admin Rights:**

1. Install the patch daemon, configure it using local Administrator account and perform the following steps:
  - a. Add your **Flexera Software Vulnerability Manager Patch Daemon** service account user (for example: test\_user) to local Administrators and WSUS Administrators groups on your DC.



**Note** • Some of the security policies in environments do not allow adding users to the local Administrators group but only to WSUS Administrators.

- b. To resolve permission issues when you cannot add a user to the local Administrators group, you would need to configure the below settings in the machine where the patch daemon is installed to allow your user to publish a package successfully.

Give your service user account Full control over all the below items and perform all actions using an administrative account.
  - c. Ensure that test machine contains WSUS certificate. If not, please export the certificate from WSUS machine from path Trusted publishers and install in the test machines in Trusted root certification authority and Trusted publishers.
2. Registry
    - a. Add permission to the below registries to your service account (test\_user) in the test machine where patch daemon is installed.

HKEY\_LOCAL\_MACHINE\Software\Flexera

HKLM\SOFTWARE\Microsoft\EnterpriseCertificates\Disallowed

HKLM\SOFTWARE\Policies\Microsoft\SystemCertificates\Disallowed

HKLM\Software\Microsoft\SystemCertificates\Disallowed

HKLM\Software\Microsoft\Update Services\Server\Setup

- b.** Add permission to the below registries to your service account (test\_user) in the WSUS machine.

HKLM\SOFTWARE\Classes\AppID

{8F5D3447-9CCE-455C-BAEF-55D42420143B}

You might have to take ownership of this key. A logged-in user, which is used to configure all permissions, needs full control of this key. This is required when configuring DCOM permissions. Settings for currently logged-in users can be changed back when all is completed.

- c.** Windows Explorer in test machine.

C:\ProgramData\Microsoft\Crypto

C:\ProgramData\Flexera Software\SVM Patch

- d.** Shares and groups

- The service user account needs to be added to WSUS administrators.
- WSUS administrators need to have full access to WSUS content location. Share and NTFS.

- e.** DCOM - Distributed Component Object Model in WSUS machine.

Open Dcomcnfg and go to Component Services > Computers > My Computer > DCOM Config, and modify WSUSCertServer security settings:

- Launch and Activation permissions - give Local Launch and Local Activation rights to WSUS administrators group/your service user
- Access permissions - give Local Access rights to WSUS administrators group/your service user.
- Reboot the machine, after changing DCOM settings.

- 3.** Service Login and publishing.

- a.** Change logon user to the test\_user and restart the service.
- b.** Once service restarted you can login to the test machine though your test user and publish patches.




---

**Note** • test\_user does not have a privilege to restart patch daemon service.