

Evaluate-STIG



Deploying Evaluate-STIG with Microsoft
Configuration Manager

v1.6

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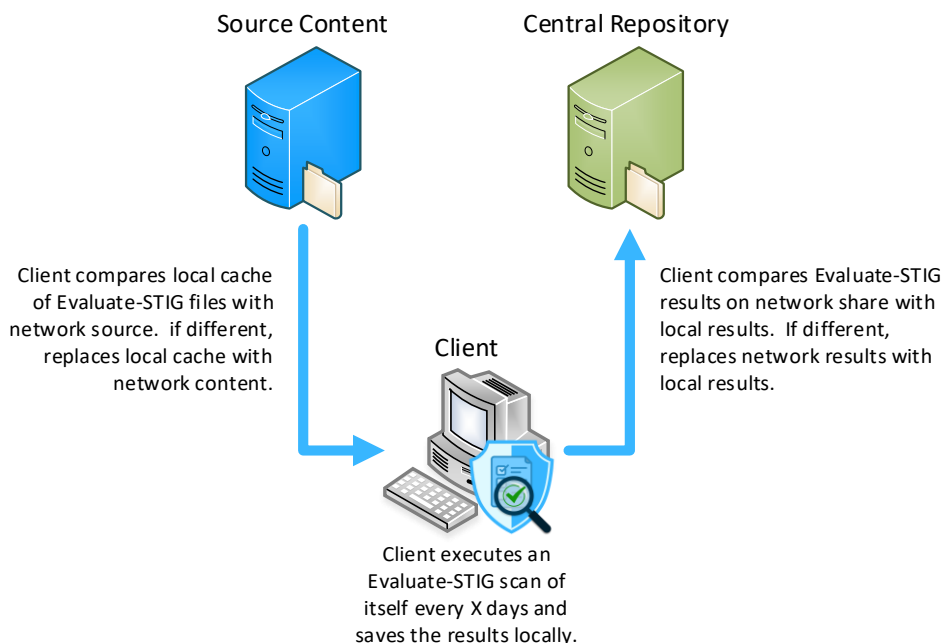
Introduction

[Microsoft Configuration Manager](#) (ConfigMgr) is a popular tool for managing clients in a networked environment and “helps IT manage PCs and servers, keeping software up-to-date, setting configuration and security policies, and monitoring system status”.

[Configuration Baselines \(CB\)](#) and [Configuration Items \(CI\)](#) have proven to be an effective method of deploying Evaluate-STIG to entire networks and can play an important role in continuous monitoring processes. This guide will describe the steps of importing, configuring, and deploying the **Evaluate-STIG as CI** sample CB/CI available for Evaluate-STIG.

Evaluate-STIG as CI is designed to ensure clients are scanning with the same Evaluate-STIG version on a configured interval. During each evaluation of the CB, the client will:

1. Compare their local copy of the Evaluate-STIG files with those in the source network share. If any differences are found, the local copy will be refreshed with the network share content.
2. Compare the current date with Evaluate-STIG’s tattoo (the **LastRun** registry value under **HKLM:\SOFTWARE\Evaluate-STIG**). If greater than the specified days, will start an Evaluate-STIG scan and save the results locally on the client. This is to ensure scans complete even when not connected to the network (e.g. remote users not currently connected via VPN).
3. Compare the local scan results with the client’s results on a central repository network share. If any differences are found, the central repository’s results for the client will be refreshed with the client’s local results.

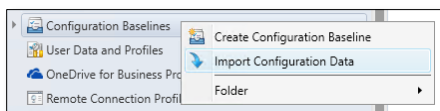


Prerequisites

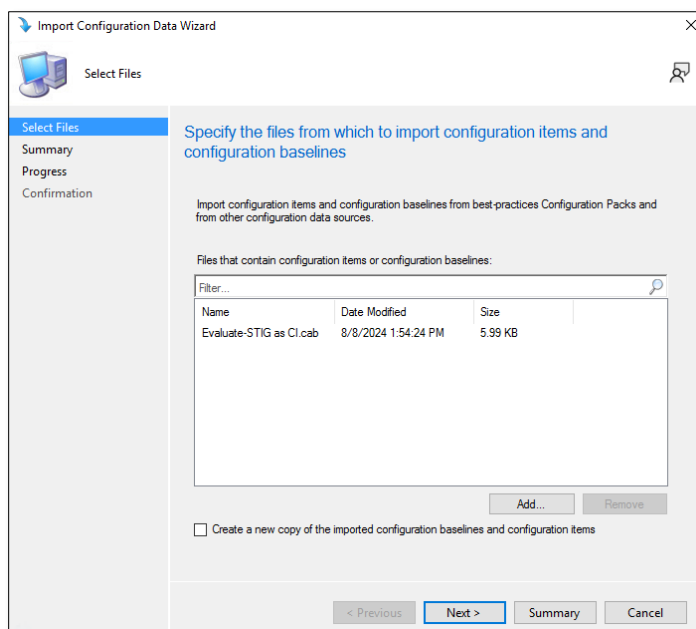
- Default Active Directory security groups:
 - **Domain Computers** (if deploying the CB to workstations/member servers)
 - **Domain Controllers** (if deploying the CB to domain controllers)
- A network share containing the extracted Evaluate-STIG files. This will be used as the **\$SourceContentPath** variable below.
 - Minimum NTFS and SHARE permission: **Read** for the appropriate group(s) above.
- A network share for Evaluate-STIG results to be sent. This will be used as the **\$CentralRepoPath** variable below.
 - Minimum NTFS and SHARE permission: **Modify** for the appropriate group(s) above.

Importing the CB/CI

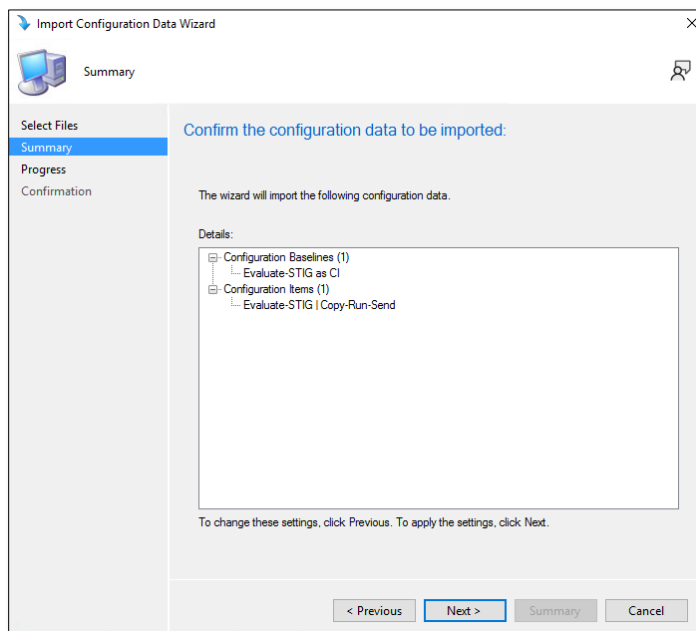
1. In the Configuration Manager console, navigate to **Assets and Compliance > Overview > Compliance Settings > Configuration Baselines**
2. Right-click and select **Import Configuration Data**:



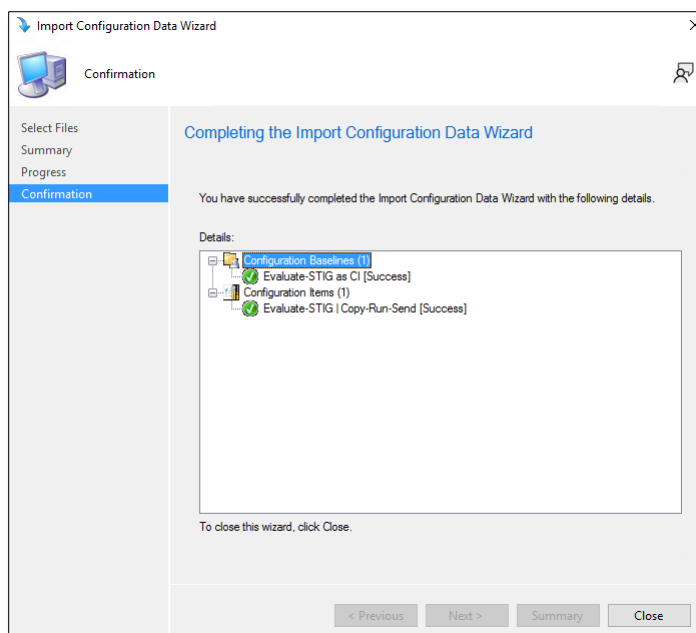
3. Click **Add** and select the **Evaluate-STIG as CI.cab** file:



- Click **Next** and you will be shown the Configuration Baseline and Configuration Item that will be imported:

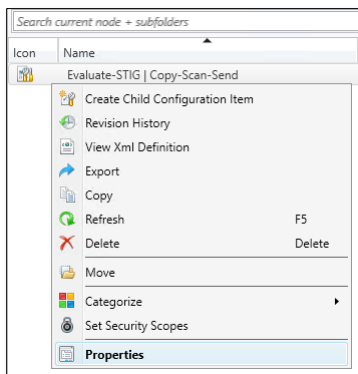


- Click **Next** and the import will begin. If successful, the next screen will reflect that. Click **Close** to complete.

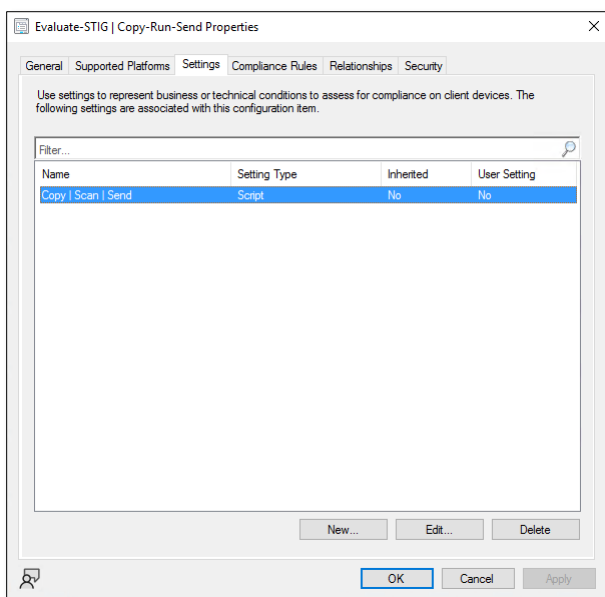


Configuring the CI

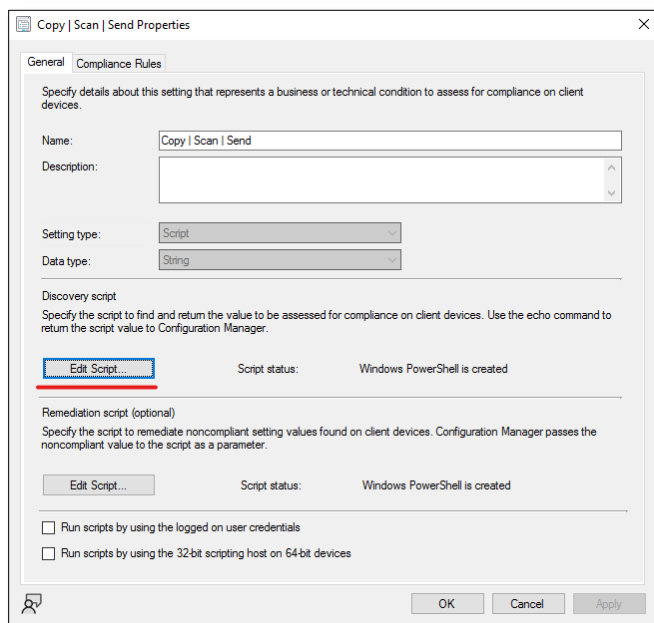
1. In the Configuration Manager console, navigate to **Assets and Compliance > Overview > Compliance Settings > Configuration Items**
2. Right-click on the **Evaluate-STIG | Copy-Scan-Send** configuration item and select **Properties**:



3. Navigate to the **Settings** tab, select **Copy | Scan | Send** and click **Edit...**

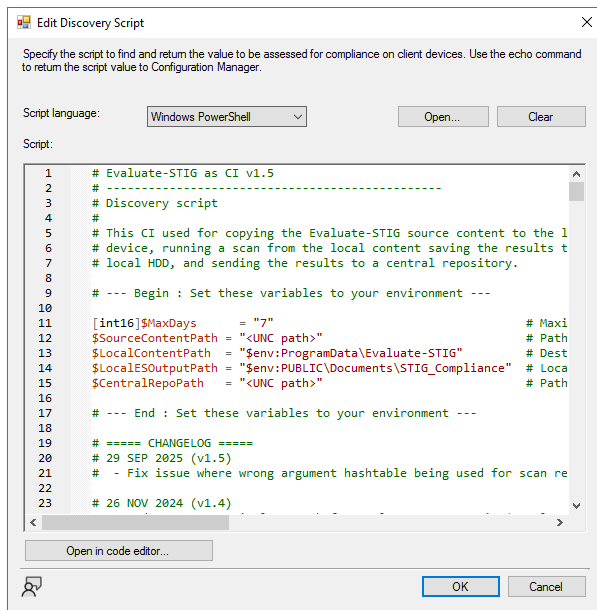


4. Click the **Edit Script** button in the **Discovery script** section:

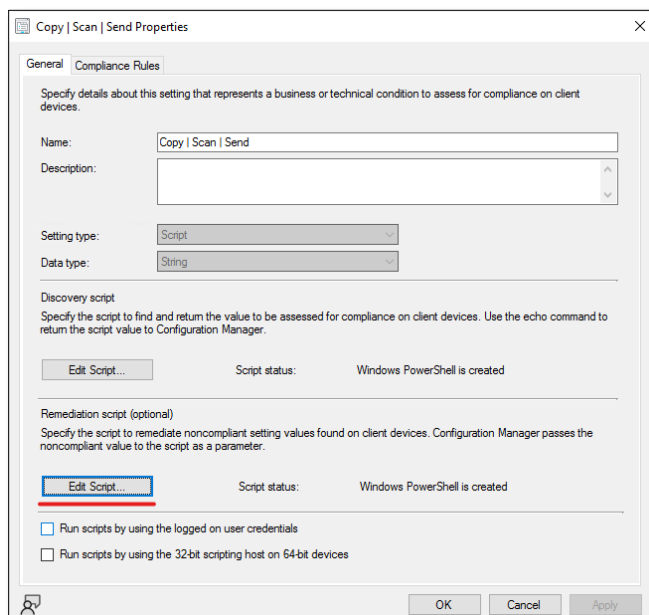


5. Update the variables for your environment and then click **OK** to save the changes:

- a. **[int16]\$MaxDays**: The number of days to wait before running a new Evaluate-STIG scan.
- b. **\$SourceContentPath**: Path to where your source Evaluate-STIG files are located. These will be copied locally to each client.
- c. **\$LocalContentPath**: Path on the client that you want the source Evaluate-STIG files copied to. Scans will be initiated from this location.
- d. **\$LocalESOutputPath**: Path on the client that Evaluate-STIG results will be saved. These will be copied to a central location later. *Do NOT include the client's hostname in this path.*
- e. **\$CentralRepoPath**: Central repository to send client results. This should be a network share. *Do NOT include the client's hostname in this path.*

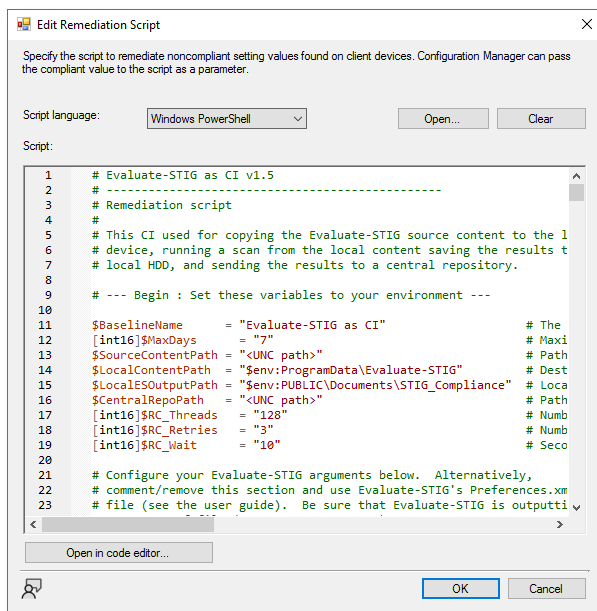


6. Click the **Edit Script** button in the **Remediation script** section:



7. Update the variables for your environment and then click **OK** to save the changes:

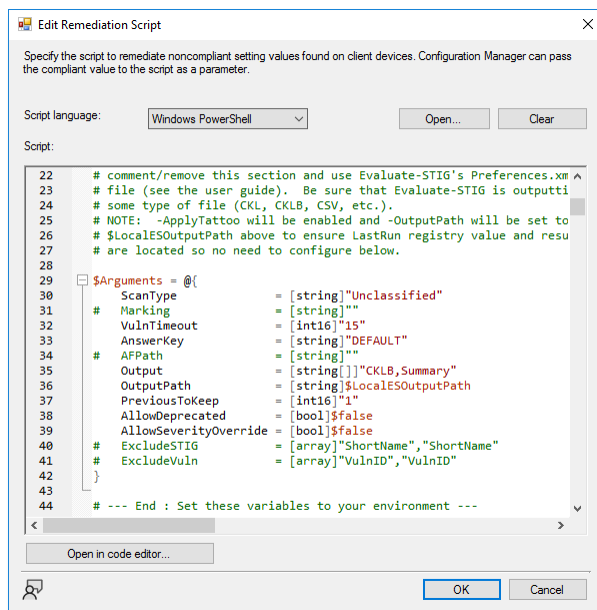
- a. **\$BaselineName**: Display name of the Configuration Baseline as it shows in the console. If a new Evaluate-STIG scan is run, the CI will re-evaluate the CB to clean up any potential time out errors.
- b. **[int16]\$MaxDays**: The number of days to wait before running a new Evaluate-STIG scan.
- c. **\$SourceContentPath**: Path to where your source Evaluate-STIG files are located. These will be copied locally to each client.
- d. **\$LocalContentPath**: Path on the client that you want the source Evaluate-STIG files copied to. Scans will be initiated from this location.
- e. **\$LocalESOutputPath**: Path on the client that Evaluate-STIG results will be saved. These will be copied to a central location later. *Do NOT include the client's hostname in this path.*
- f. **\$CentralRepoPath**: Central repository to send client results. This should be a network share. *Do NOT include the client's hostname in this path.*
- g. **[int16]\$RC_Threads**: Maximum threads for **robocopy.exe**. Must be at least **1** and no more than **128**.



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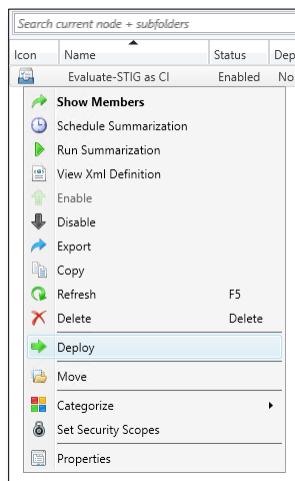
1 # Evaluate-STIG as CI v1.5
2 # -----
3 # Remediation script
4 #
5 # This CI used for copying the Evaluate-STIG source content to the l
6 # device, running a scan from the local content saving the results t
7 # local HDD, and sending the results to a central repository.
8
9 # --- Begin : Set these variables to your environment ---
10
11 $BaselineName = "Evaluate-STIG as CI" # The
12 [int16]$MaxDays = "7" # Maxi
13 $SourceContentPath = "<UNC path>" # Path
14 $LocalContentPath = "$env:ProgramData\Evaluate-STIG" # Dest
15 $LocalESOutputPath = "$env:PUBLIC\Documents\STIG_Compliance" # Loca
16 $CentralRepoPath = "<UNC path>" # Path
17 [int16]$RC_Threads = "128" # Numb
18 [int16]$RC_Retries = "3" # Numb
19 [int16]$RC_Wait = "10" # Seco
20
21 # Configure your Evaluate-STIG arguments below. Alternatively,
22 # comment/remove this section and use Evaluate-STIG's Preferences.xml
23 # file (see the user guide). Be sure that Evaluate-STIG is outputti
  
```


- h. **[int16]\$RC_Retries**: Maximum retries for robocopy.exe.
- i. **[int16]\$RC_Wait**: Time in seconds to wait between retries for robocopy.exe.
- j. Configure the Evaluate-STIG scan parameters to your requirements or remove this section and use **Preferences.xml1** (reference Evaluate-STIG's User Guide for more).



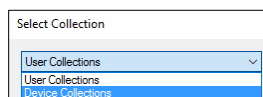
Deploying the CB

1. In the Configuration Manager console, navigate to **Assets and Compliance > Overview > Compliance Settings > Configuration Baselines**
2. Right-click on the **Evaluate-STIG as CI** configuration baseline and select **Deploy**:

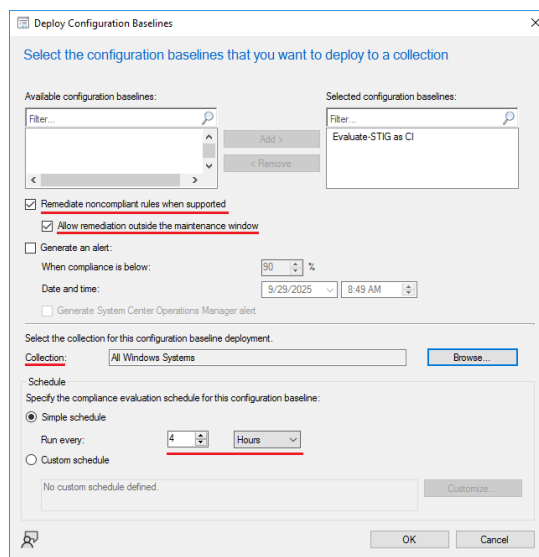


3. Configure the deployment options and click **OK**. Some notes on the underlined options:

- a. **Remediate noncompliant rules when supported:** This is required in order correct non-compliant steps (source content, last scan, central repo content).
- b. **Allow remediation outside the maintenance window:** This is recommended in order to help ensure continuous monitoring as well as catch remote machines that may not be connected to the network after hours.
- c. **Collection:** This must be a **Device** collection to ensure permissions for Evaluate-STIG scans and network access.



- d. **Schedule:** Recommend every 4 hours. This does not mean an Evaluate-STIG scan will occur every four hours but rather the compliance checks - local content is current, last Evaluate-STIG scan is within the configured threshold, and central repository results are updated.



Troubleshooting

Discovery and Remediation activity detail is logged under **\$env:windir\Temp\Evaluate-STIG_as_CI.log**. Refer to this log to assist in troubleshooting efforts. Once the log size grows to greater than 1MB, a new log will be created and the current log rotated to **Evaluate-STIG_as_CI-
<date>-<time>.log**.

For Robocopy, activity is logged to **\$env:windir\Temp\Evaluate-STIG_as_CI_Robocopy.log**.

Change Log

14 OCT 2025 (v1.6)

- Fix issue where deleting HKLM:\SOFTWARE\Evaluate-STIG fails when it doesn't exist.

29 SEP 2025 (v1.5)

- Fix issue where wrong argument hashtable being used for scan resulting in -ApplyTattoo not being set.

26 NOV 2024 (v1.4)

- Update to recursively search for Evaluate-STIG.ps1 in \$LocalContentPath and select the most recently modified to use for scan.
- Update to enclose \$EvalSTIG_PS1 in quotes in the event whitespace exists in the path to Evaluate-STIG.ps1
- Fix for ApplyTattoo parameter.
- Fix for failed scan if path \$LocalESOutputPath does not exist.
- Fix issue where switch parameters were being added to command line even when \$false.
- Fix issue where remediation script would fail if \$LocalESOutputPath is empty.

26 SEP 2024 (v1.3)

- Fix remediation loop issue due to returning difference object to console.
- Change copy process to use Robocopy .exe instead of Copy-Item for performance.
- Add configurable Robocopy .exe parameters.

24 SEP 2024 (v1.2):

- Add Write-CILog function. Log located at \$env:windir\Temp\Evaluate-STIG_as_CI.log and will be rotated when greater than 1MB.

04 SEP 2024 (v1.1 - internal release):

- Add Get-CIErrorInformation function to improve error logging

12 AUG 2024 (V1.0):

- Initial release