

# Evaluate-STIG



User Guide

1.2510.0

# Table of Contents

1	Introduction.....	1
2	System Requirements .....	2
2.1	Supported Operating Systems .....	2
2.2	Prerequisites.....	2
	Support Scripts.....	2
3	Usage.....	3
3.1	PowerShell Parameters.....	4
	Scan Settings.....	4
	-ScanType .....	4
	-Marking .....	4
	-TargetComments.....	4
	-VulnTimeout.....	4
	-FileSearchTimeout.....	4
	-AnswerKey.....	5
	-AFPATH .....	5
	-Output.....	5
	-JSON .....	6
	-OutputPayload .....	6
	-OutputPath.....	7
	-PreviousToKeep.....	7
	-SelectSTIG.....	7
	-SelectVuln.....	7
	-ExcludeVuln .....	8
	-ExcludeSTIG .....	8
	-ForceSTIG .....	8
	-SelectInstance .....	8
	-ExcludeInstance.....	8
	-SelectDatabase.....	9
	-ExcludeDatabase .....	9
	-SelectSite .....	9
	-ExcludeSite .....	9
	-AllowDeprecated .....	9
	-AllowSeverityOverride .....	9
	-AllowIntegrityViolations.....	10

-ApplyTattoo.....	10
-SMCollection .....	10
-SMPassphrase .....	10
-SplunkHECName.....	10
Remote and Cisco Options.....	11
-ComputerName.....	11
-AltCredential .....	11
-CiscoConfig .....	11
-SelectDeviceType .....	11
-ThrottleLimit.....	12
Utility Options.....	12
-ListSupportedProducts .....	12
-ListApplicableProducts .....	12
-Version .....	12
-Update.....	12
-LocalSource .....	12
-Proxy.....	13
3.2 Bash Wrapper Script .....	13
Parameters .....	13
--DownloadPS .....	13
--PSPath .....	13
--ScanType .....	13
--Marking .....	13
--TargetComments .....	13
--VulnTimeout.....	14
--FileSearchTimeout .....	14
--AnswerKey .....	14
--AFPath .....	14
--Output.....	14
--JSON .....	14
--OutputPayload .....	14
--OutputPath .....	14
--PreviousToKeep .....	15
--SelectSTIG .....	15
--SelectVuln .....	15

--ExcludeVuln.....	15
--ExcludeSTIG.....	15
--ForceSTIG .....	15
--SelectInstance .....	15
--ExcludeInstance .....	16
--SelectDatabase.....	16
--ExcludeDatabase.....	16
--SelectSite.....	16
--ExcludeSite .....	16
--AllowDeprecated.....	16
--AllowSeverityOverride .....	16
--AllowIntegrityViolations.....	16
--ApplyTattoo.....	17
--SMCollection .....	17
--SMPassphrase .....	17
--SplunkHECName .....	17
--CiscoConfig.....	17
--SelectDeviceType .....	17
--ThrottleLimit .....	17
--ListSupportedProducts.....	17
--ListApplicableProducts .....	18
--Version .....	18
--Update .....	18
--LocalSource .....	18
--Proxy .....	18
<b>3.3 Answer Files .....</b>	<b>19</b>
Development Cycle.....	19
Structure .....	20
<STIGComments>.....	20
<Vuln>.....	20
<AnswerKey>.....	20
<Answer>.....	21
<ValidationCode> .....	21
<ValidTrueStatus> .....	21
<ValidTrueComment> .....	22

<ValidFalseStatus>.....	22
<ValidFalseComment>.....	22
Status Formats.....	22
Validation Code.....	23
Exposed Variables.....	24
Selection of Winning Answer.....	25
Identifying Optional Attributes.....	26
Answer File Flowchart.....	26
Sample Answer File.....	27
Answer File Maintenance and Migration.....	28
3.4 Unsupported STIGs .....	28
3.5 Preferences.xml .....	29
EvaluateSTIG Section .....	29
OutputPayload Section .....	29
STIGManager Section.....	30
Splunk Section.....	31
ManageAnswerFiles Section .....	31
3.6 Remote Scanning .....	32
Requirements .....	32
Parameter Notes.....	33
3.7 Cisco Scanning .....	33
Parameter Notes.....	33
3.8 STIG Manager .....	34
Prerequisites .....	34
Parameter Notes.....	34
Usage .....	34
3.9 Splunk .....	35
Prerequisites .....	35
Parameter Notes.....	35
Usage .....	35
3.10 Versioning, Release Cadence, and Updating .....	36
4 Evaluate-STIG GUI .....	37
4.1 Scan Tab .....	37
4.2 Answer File Tools Tab .....	38
4.3 Preferences Editor tab .....	39

5 Scan Processes .....	40
5.1 Preferred User Selection Process .....	40
5.2 CKL   CKLB Documentation.....	41
5.3 Summary Reports .....	41
5.4 Objective Quality Evidence (OQE) .....	41
6 Scan Results.....	42
6.1 Walking the Object .....	43
6.2 Scoring .....	45
CORA Grading .....	45
Per STIG Score.....	45
6.3 Tattooing.....	46
Windows .....	47
Linux.....	48
Appendix A:     Frequently Asked Questions .....	49
Appendix B:     Troubleshooting.....	49
B-1 Logging .....	49
B-2 Common Problems .....	50
Appendix C:     Technical Support .....	52
Appendix D:     Supported STIGs.....	53

# 1 Introduction

Evaluate-STIG is a PowerShell tool for automating [Security Technical Implementation Guide \(STIG\)](#) scans and can optionally output results to [STIG Viewer](#) compatible checklist files (both CKL and CKLB formats). It is only used for documenting STIG compliance state and not for configuring to STIG requirements. Evaluate-STIG can greatly reduce or eliminate the manual efforts typically required for documenting compliance while providing more complete, accurate, and consistent documentation. Labor efforts that previously could consume hours or days can now be completed in minutes.

Evaluate-STIG, designed with automation as the priority, detects which of the [supported STIGs](#) are required for the asset and reduces the risk of missed STIGs. It can scan both the local system as well as remote assets. For larger networks, it can be deployed by configuration management tools (e.g., Microsoft Configuration Manager, IBM BigFix, PDQ Deploy, Ansible, etc.) to maximize automation efficiencies.

Some of our users:



---

## 2 System Requirements

### 2.1 Supported Operating Systems

Evaluate-STIG may be run on the following operating systems:

Amazon Linux 2023	Oracle Linux 7	Windows 7 *	Windows Server 2019
Canonical Ubuntu 16.04	Oracle Linux 8	Windows 10	Windows Server 2022
Canonical Ubuntu 18.04	Oracle Linux 9	Windows 11	Windows Server 2025
Canonical Ubuntu 20.04	Red Hat Enterprise Linux 7	Windows Server 2008 R2 *	
Canonical Ubuntu 22.04	Red Hat Enterprise Linux 8	Windows Server 2012 / R2 *	
Canonical Ubuntu 24.04	Red Hat Enterprise Linux 9	Windows Server 2016	

\* Requires [Windows Management Framework 5.1](#)

### 2.2 Prerequisites

- 
- |                |  |
|----------------|--|
| <b>Windows</b> | <ul style="list-style-type: none"><li>PowerShell 5.1   PowerShell 7.3 or greater (PowerShell 6 is not supported)</li><li>Compatible PowerShell Execution Policy (depends on code signing certificate trust)<ul style="list-style-type: none"><li>Recommend adding included DOD-issued code signing certificate to the following store:<br/>Local Machine\Trusted Publishers store</li></ul></li><li>For MS SQL:<ul style="list-style-type: none"><li>Administrator level permission to both the operating system and SQL instance/database</li></ul></li></ul>   |
| <b>Linux</b>   | <ul style="list-style-type: none"><li>Libraries <b>libicu</b>, <b>lshw</b>, <b>dmidecode</b>, and <b>bc</b> must be installed</li><li>When running from:<ul style="list-style-type: none"><li><b>PowerShell</b> direct: PowerShell 7.3 or greater must be installed (note RHEL7 only supports PowerShell 7.3)</li><li><b>Bash</b>: Supported PowerShell archive (7.3 or greater) renamed to <b>powershell.tar.gz</b> located within the Evaluate-STIG folder. Use <a href="#">--DownloadPS</a> or perform this manually.</li></ul></li><li>If using <b>fapolicyd</b> for application whitelisting, <b>pwsh</b> and <b>libhostfxr.so</b> must be allowed.</li></ul> |
- 

#### *Support Scripts*

Included in the Evaluate-STIG\Prerequisites folder are scripts to help ensure systems meet the above prerequisites:

- Windows**
  - Test-Prerequisites.bat** – To verify execution policy, certificate trust, and that no files have the blocked attribute.
  - Import-Certificates.bat** – To import the code signing certificate chain into the correct stores.
- Linux**
  - Test-Prerequisites.sh** – To verify **libicu** and **lshow** are installed and remind about whitelisting if **fapolicyd** is installed.

## 3 Usage

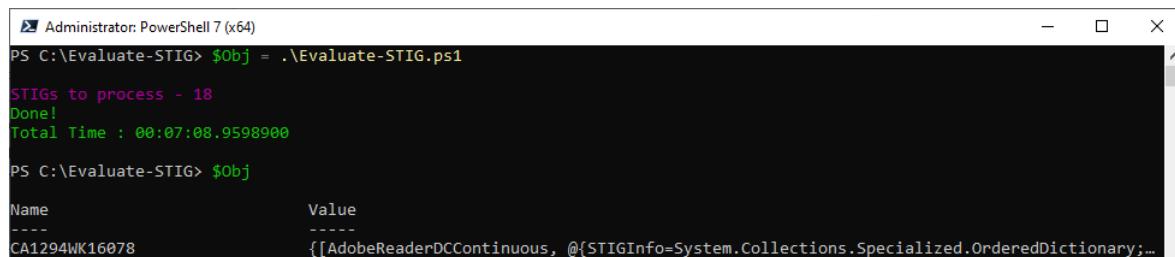
Evaluate-STIG is primarily designed as a command-line tool that should be executed from an elevated PowerShell prompt. In the simplest form, a default, full scan of the local machine is performed by calling the Evaluate-STIG.ps1 file with no options. Below example will store the output into a variable named \$Obj:

```
PS C:\Evaluate-STIG> $Obj = .\Evaluate-STIG.ps1
```



```
Administrator: PowerShell 7 (x64)
PS C:\Evaluate-STIG> $Obj = .\Evaluate-STIG.ps1
STIGs to process - 18
Done!
Total Time : 00:07:08.9598900
```

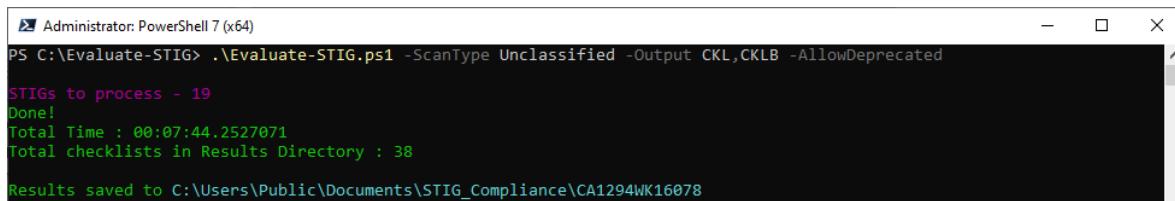
Which can be examined after:



```
Administrator: PowerShell 7 (x64)
PS C:\Evaluate-STIG> $Obj = .\Evaluate-STIG.ps1
STIGs to process - 18
Done!
Total Time : 00:07:08.9598900
PS C:\Evaluate-STIG> $Obj
Name          Value
----          -----
CA1294WK16078 {[AdobeReaderDCCContinuous, @{STIGInfo=System.Collections.Specialized.OrderedDictionary;...]
```

Add parameters as necessary to customize the scan to your needs. Below example will perform an unclassified (default) scan, saving the results as both .CKL and .CKLB files, and enable deprecated STIG scanning:

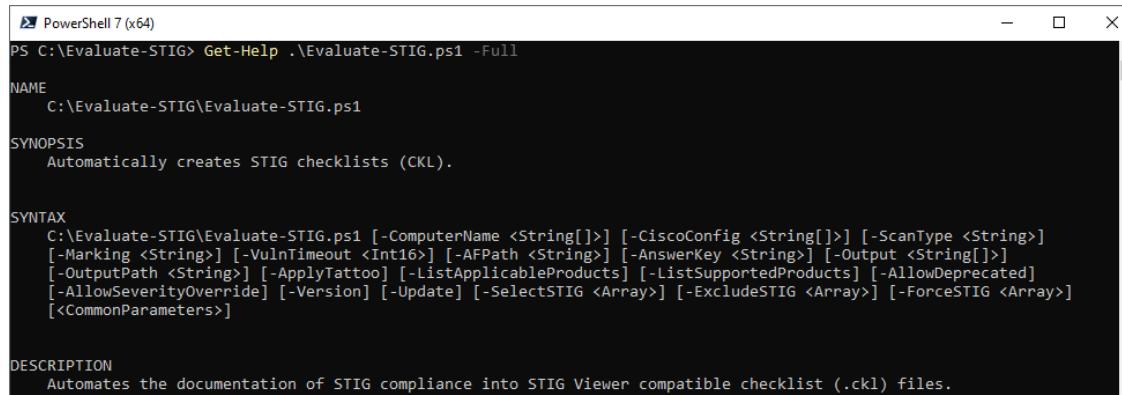
```
PS C:\Evaluate-STIG> .\Evaluate-STIG.ps1 -ScanType Unclassified -Output CKL,CKLB -AllowDeprecated
```



```
Administrator: PowerShell 7 (x64)
PS C:\Evaluate-STIG> .\Evaluate-STIG.ps1 -ScanType Unclassified -Output CKL,CKLB -AllowDeprecated
STIGs to process - 19
Done!
Total Time : 00:07:44.2527071
Total checklists in Results Directory : 38
Results saved to C:\Users\Public\Documents\STIG_Compliance\CA1294WK16078
```

Use Get-Help to display Evaluate-STIG's help information:

```
PS C:\Evaluate-STIG> Get-Help .\Evaluate-STIG.ps1 -Full
```



```
Administrator: PowerShell 7 (x64)
PS C:\Evaluate-STIG> Get-Help .\Evaluate-STIG.ps1 -Full
NAME
  C:\Evaluate-STIG\Evaluate-STIG.ps1

SYNOPSIS
  Automatically creates STIG checklists (CKL).

SYNTAX
  C:\Evaluate-STIG\Evaluate-STIG.ps1 [-ComputerName <String[]>] [-CiscoConfig <String[]>] [-ScanType <String>]
  [-Marking <String>] [-VulnTimeout <Int16>] [-AFPath <String>] [-AnswerKey <String>] [-Output <String[]>]
  [-OutputPath <String>] [-ApplyTattoo] [-ListApplicableProducts] [-ListSupportedProducts] [-AllowDeprecated]
  [-AllowSeverityOverride] [-Version] [-Update] [-SelectSTIG <Array>] [-ExcludeSTIG <Array>] [-ForceSTIG <Array>]
  [<CommonParameters>]

DESCRIPTION
  Automates the documentation of STIG compliance into STIG Viewer compatible checklist (.ckl) files.
```

## 3.1 PowerShell Parameters

### *Scan Settings*

The parameters below may be used for customizing scan settings by adding to your command line:

#### **-ScanType**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Classification of asset being scanned. This is solely for achieving a Not Applicable status for checks that are classification dependent.
<b>Valid Entries:</b>	<ul style="list-style-type: none"> <li>• Unclassified</li> <li>• Classified</li> </ul>
<b>Default:</b>	"Unclassified"
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ScanType Unclassified</code>

#### **-Marking**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Use to optionally set the <b>Marking</b> field in .CKL and <b>Target Data Classification</b> field in .CKLB output files.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Marking MyMarking</code>

#### **-TargetComments**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Use to optionally set the TargetComments field in .CKL and .CKLB output files.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -TargetComments "My comments"</code>

#### **-VulnTimeout**

<b>Parameter Type:</b>	<Int16> [Valid Range: 1-1440]
<b>Description:</b>	Set the maximum time in minutes allowed for a singular Vuln ID check to run.
<b>Default:</b>	"15"
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -VulnTimeout 30</code>

#### **-FileSearchTimeout**

<b>Parameter Type:</b>	<Int16> [Valid Range: 1-1440]
<b>Description:</b>	Set the maximum time in minutes allowed for the file type pre-scan search to run. For STIGs requiring a scan of all hard disks for specific file types (e.g. .pfx).
<b>Default:</b>	"240"
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -FileSearchTimeout 120</code>

## -AnswerKey

<b>Parameter Type:</b>	<String>	
<b>Description:</b>	Use to direct Evaluate-STIG which Answer Key to use for determining if a comment from an answer file should be applied. Answer Keys are per Vuln ID and user-defined within the answer file. <b>If this parameter is not specified, Evaluate-STIG will still attempt to use the "DEFAULT" key if configured in the answer file for that Vuln ID.</b>	
<b>Default:</b>	"DEFAULT"	
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -AnswerKey MyKey</code>	

## -AFPath

<b>Parameter Type:</b>	<String>	
<b>Description:</b>	Specify location of folder with answer files. May be a local or UNC path. Default location is ".\Evaluate-STIG\AnswerFiles". <b>Must point to a folder of answer files and not an answer file itself. If this parameter is not specified, Evaluate-STIG will still attempt to use the "DEFAULT" key if configured in the answer file for that Vuln ID.</b>	
<b>Default:</b>	".\Evaluate-STIG\AnswerFiles\"	
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -AFPath \\Server01\AnswerFiles\</code>	

## -Output

<b>Parameter Type:</b>	<String[]>	
<b>Description:</b>	Specify outputs to generate. Multiple outputs may be specified though comma separation.	
<b>Valid Entries:</b>	<ul style="list-style-type: none"> <li>• <b>Console:</b> Results will be returned to the console as a PowerShell object. When outputting to the console, it is recommended results be stored in a variable so they can be <a href="#">walked</a> after (e.g. <code>\$Obj = .\Evaluate-STIG.ps1</code>).</li> <li>• <b>CKL:</b> Results will be saved to singular .CKL files per STIG. Compatible with STIG Viewer 2.17</li> <li>• <b>CKLB:</b> Results will be saved to singular .CKLB files per STIG. Compatible with STIG Viewer 3.x.</li> <li>• <b>CSV:</b> Results will be saved to singular .CSV files per STIG.</li> <li>• <b>XCCDF:</b> Results will be saved to singular .XCCDF.XML files per STIG.</li> <li>• <b>CombinedCKL:</b> Results will be saved to a multi-STIG .CKL file. <i>Note that some STIGs are not combinable and will have their results saved to singular .CKL files alongside the combined CKL.</i></li> <li>• <b>CombinedCKLB:</b> Results will be saved to a multi-STIG .CKLB file. <i>Note that some STIGs are not combinable and will have their results saved to singular .CKLB files alongside the combined CKLB.</i></li> <li>• <b>CombinedCSV:</b> Results will be saved to a multi-STIG .CSV file. <i>Note that some STIGs are not combinable and will have their results saved to singular .CSV files alongside the combined CSV.</i></li> <li>• <b>OQE:</b> Generate <a href="#">Objective Quality Evidence (OQE)</a> artifacts on Windows systems.</li> <li>• <b>Summary:</b> Generate <a href="#">summary reports</a> of the scans.</li> <li>• <b>STIGManager:</b> Send results to a STIG Manager instance. See <a href="#">STIG Manager</a> for more.</li> <li>• <b>Splunk:</b> Send results to a Splunk HTTP Event Collector. See <a href="#">Splunk</a> for more.</li> </ul>	
<b>Default:</b>	"Console"	
<b>Example:</b>	<code>\$Obj = .\Evaluate-STIG.ps1 -Output Console,CombinedCKL,CKLB</code>	

### **-JSON**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Output Console Object in JSON Format using OutputPayload Options. JSON Objects are based on Group ID.
<b>Requires:</b>	<a href="#">-Output Console</a>
<b>Example:</b>	

```
$Obj = .\Evaluate-STIG.ps1 -Output Console -JSON
```

### **-OutputPayload**

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	Specify which fields to output when outputting to CSV, JSON, or Splunk. Order of fields will be retained from command line. For multiple, separate with commas. Default is all fields. Requires -Output CSV CombinedCSV Splunk or -JSON.
	<ul style="list-style-type: none"> <li>• <b>Title:</b> Name of the STIG.</li> <li>• <b>Version:</b> Version of the STIG.</li> <li>• <b>ReleaseDate:</b> Release date of the STIG.</li> <li>• <b>Classification:</b> Classification of the STIG.</li> <li>• <b>HostName:</b> Asset name.</li> <li>• <b>Site:</b> Site name for web server STIGs.</li> <li>• <b>Instance:</b> Instance or database name for database STIGs.</li> <li>• <b>IP:</b> IP address of asset.</li> <li>• <b>MAC:</b> MAC address of asset.</li> <li>• <b>FQDN:</b> Fully Qualified Domain Name of asset.</li> <li>• <b>Role:</b> Role of asset (Workstation Member Server Domain Controller None).</li> <li>• <b>GroupID:</b> Group ID (vulnerability ID) from STIG.</li> <li>• <b>GroupTitle:</b> Group Title (Rule Name) from STIG.</li> <li>• <b>RuleID:</b> Rule ID of Group ID from the STIG.</li> <li>• <b>STIGID:</b> STIG ID of Group ID from the STIG.</li> <li>• <b>Severity:</b> Severity of Group ID from the STIG.</li> <li>• <b>SeverityOverride:</b> SeverityOverride from result if used.</li> <li>• <b>Justification:</b> Justification for the SeverityOverride from result if used.</li> <li>• <b>LegacyIDs:</b> Legacy IDs for the Group ID from the STIG.</li> <li>• <b>RuleTitle:</b> Rule Title of the Group ID from the STIG.</li> <li>• <b>Discussion:</b> Discussion for the Group ID from the STIG.</li> <li>• <b>CheckText:</b> Check Text for the Group ID from the STIG.</li> <li>• <b>FixText:</b> Fix Text for the Group ID from the STIG.</li> <li>• <b>CCI:</b> CCI reference(s) for the Group ID from the STIG.</li> <li>• <b>Status:</b> Status of check.</li> <li>• <b>FindingDetails:</b> Finding Details for check.</li> <li>• <b>Comments:</b> Comments for check.</li> <li>• <b>ESVersion:</b> Version of Evaluate-STIG used.</li> <li>• <b>StartTime:</b> Time that the scan for the STIG began.</li> </ul>
<b>Requires:</b>	<a href="#">-Output CSV CombinedCSV Splunk</a> or <a href="#">-JSON</a>
<b>Example:</b>	
	<pre>.\Evaluate-STIG.ps1 -Output CSV -OutputPayload HostName,Title,GroupID,Status,FindingDetails</pre>

## -OutputPath

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Specify location to save files produced by <a href="#">-Output</a> . May be a local or UNC path. A folder for the machine name will be created automatically in [OutputPath].
<b>Default:</b>	<ul style="list-style-type: none"> <li>Windows: "C:\Users\Public\Documents\STIG_Compliance"</li> <li>Linux: "/opt/STIG_Compliance"</li> </ul>
<b>Requires:</b>	<a href="#">-Output</a> <CKL CKLB CSV XCCDF CombinedCKL CombinedCKLB CombinedCSV Summary OQE>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Output CombinedCKL,CKLB -OutputPath \\Server01\MyShare\</code>

## -PreviousToKeep

<b>Parameter Type:</b>	<Int16>
<b>Description:</b>	Number of previous scan session outputs to retain in <a href="#">-OutputPath</a> . Scan outputs are the items requested with <a href="#">-Output</a> . Retained results will be moved to a [OutputPath]\Previous\[Results Date-Time] folder. <ul style="list-style-type: none"> <li>Using <b>-PreviousToKeep 0</b> will remove all previous results and only retain current results.</li> <li>Using a negative value (e.g. <b>-PreviousToKeep -1</b>) will keep all previous results.</li> </ul>
<b>Default:</b>	"1"
<b>Requires:</b>	<a href="#">-Output</a>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Output CombinedCKL,CKLB -PreviousToKeep 5</code>

## -SelectSTIG

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	By default, Evaluate-STIG will scan for all <a href="#">supported STIGs</a> applicable to the asset. This parameter is to limit the scan to only certain STIG(s). Use [Tab] or [CTRL + Space] to properly select STIG(s) by their short names. Multiple STIGs may be selected using comma separation. This option cannot be used with <a href="#">-ExcludeSTIG</a> . STIG short names are identified in the <a href="#">-ListSupportedProducts</a> .
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -SelectSTIG Chrome,MSEdge</code>

## -SelectVuln

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	Specify which vulnerability IDs to include in scan. Entries must be in the V-#### format as listed in the STIG. For multiple vulnerability IDs, separate with commas. If outputting to .CKL or .CKLB, results will be saved to a "_Partial" folder under [OutputPath].
<b>Requires:</b>	<a href="#">-SelectSTIG</a>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -SelectSTIG Chrome,MSEdge -SelectVuln V-221558,V-235719</code>

## **-ExcludeVuln**

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	Specify which vulnerability IDs to exclude from scan. Entries must be in the V-##### format as listed in the STIG. For multiple vulnerability IDs, separate with commas. <i>If a vulnerability ID is both selected and excluded, -ExcludeVuln wins and the vulnerability ID will not be scanned.</i>
<b>Requires:</b>	<a href="#">-SelectSTIG</a>
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -SelectSTIG Chrome,MSEdge -ExcludeVuln V-221558,V-235719</code>	

## **-ExcludeSTIG**

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	This parameter is to exclude certain STIG(s) from a scan and scan for all other applicable STIGs. Use [Tab] or [CTRL + Space] to properly exclude STIG(s) by their short names. Multiple STIGs may be excluded through comma separation. This option cannot be used with <a href="#">-SelectSTIG</a> . STIG short names are identified in the <a href="#">-ListSupportedProducts</a> .
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -ExcludeSTIG Chrome,MSEdge</code>	

## **-ForceSTIG**

\*WARNING\* Evaluate-STIG results are not guaranteed with this option. Use at own risk.

<b>Parameter Type:</b>	<Array>
<b>Description:</b>	By default, Evaluate-STIG will determine which STIGs are applicable to the asset based on defined criteria for that STIG. This parameter is to force certain STIG(s) to be scanned regardless of Evaluate-STIG's applicability check. Use [Tab] or [CTRL + Space] to list STIG(s) by their short names. Multiple STIGs may be forced using comma separation. STIG short names are identified in the <a href="#">-ListSupportedProducts</a> option. <i>If a STIG is both excluded and forced, -ForceSTIG will win and the STIG will be scanned.</i>
This parameter is required if an <a href="#">unsupported STIG</a> is to be included in the scan.	
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -ForceSTIG ADDomain,JavaJRE8Windows</code>	

## **-SelectInstance**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to limit which instance(s) are scanned for STIGs where instance is within context (e.g. SQL Instance). Multiple instances may be specified using comma separation.
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -SelectInstance SqlServer01,"SqlServer01\Instance02"</code>	

## **-ExcludeInstance**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to exclude specific instance(s) from the scan for STIGs where instance is within context (e.g. SQL Instance). Multiple instances may be specified using comma separation.
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -ExcludeInstance SqlServer01,"SqlServer01\Instance02"</code>	

### **-SelectDatabase**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to limit which database(s) are scanned for STIGs where database is within context (e.g. SQL Database). Multiple databases may be specified using comma separation.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -SelectDatabase master,model</code>

### **-ExcludeDatabase**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to exclude specific database(s) from the scan for STIGs where database is within context (e.g. SQL Database). Multiple databases may be specified using comma separation.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ExcludeDatabase master,model</code>

### **-SelectSite**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to limit which site(s) are scanned for STIGs where site is within context (e.g. IIS Site). Multiple sites may be specified using comma separation.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -SelectSite "Default Web Site",WSUS</code>

### **-ExcludeSite**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use to exclude specific site(s) from the scan for STIGs where site is within context (e.g. IIS Site). Multiple sites may be specified using comma separation.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ExcludeSite "Default Web Site",WSUS</code>

### **-AllowDeprecated**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	STIGs that Evaluate-STIG supports but have been removed from <a href="https://www.cyber.mil/">https://www.cyber.mil/</a> are considered deprecated and will not be scanned by default. This parameter will enable the detection and scan of deprecated STIGs. <i>If a STIG is forced with <b>-ForceSTIG</b>, deprecation will be ignored and the STIG will always be scanned.</i>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -AllowDeprecated</code>

### **-AllowSeverityOverride**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Enables setting the Security Override and Justification fields in the checklist when the STIG contains verbiage that a specific criterion changes the severity of the check. <i>Refer to your organization's policy if usage of the Security Override feature in STIG Viewer is allowed.</i>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -AllowSeverityOverride</code>

### **-AllowIntegrityViolations**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Ignores Evaluate-STIG file integrity validation failures and allows the scan to continue.
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -AllowIntegrityViolations</code>	

### **-ApplyTattoo**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Marks the asset with Evaluate-STIG <a href="#">tattooing</a> .
<b>Note:</b>	If <a href="#">-SelectSTIG</a> is used, this parameter is ignored.
<b>Example:</b>	

```
.\Evaluate-STIG.ps1 -ApplyTattoo
```

### **-SMCollection**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Used to direct Evaluate-STIG which STIG Manager collection settings to use within the <a href="#">Preferences.xml</a> file. See <a href="#">STIG Manager</a> for more.
<b>Requires:</b>	<a href="#">-Output STIGManager</a>
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -Output STIGManager -SMCollection MyCollection</code>	

### **-SMPassphrase**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	If <a href="#">SMImport CLIENT CERT</a> is encrypted, this provides the passphrase to decrypt the certificate's key defined in <a href="#">SMImport CLIENT CERT KEY</a> . <b>The passphrase will be converted to a SecureString before used.</b>
<b>Requires:</b>	<a href="#">-Output</a> and <a href="#">-SMCollection</a>
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -Output STIGManager -SMCollection MyCollection -SMPassphrase MyPassphrase</code>	

### **-SplunkHECName**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Use to direct Evaluate-STIG which configured Splunk HTTP Event Collection (HEC) to upload results. See <a href="#">Splunk</a> for more.
<b>Requires:</b>	<a href="#">-Output Splunk</a>
<b>Example:</b>	
<code>.\Evaluate-STIG.ps1 -Output Splunk -SplunkHECName MyHECName</code>	

## Remote and Cisco Options

The parameters below are used to initiate remote and Cisco config file scans. Most of the Scan Setting parameters discussed previously may be used in addition to these to customize remote scans:

### **-ComputerName**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Use this parameter to perform a remote scan of Windows/Linux systems. Entries may be a computer name, IP address, text file of computers (one per line), a PowerShell array object, or a combination. Multiple may be specified using comma separation.
	<b><i>Entries must be resolvable in DNS or the hosts file. This parameter is only valid for Windows hosts. See <a href="#">Remote Scanning</a> for more.</i></b>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ComputerName Workstation01, "C:\ComputerList.txt"</code>

### **-AltCredential**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	By default, for remote Windows scans, Evaluate-STIG will use the credential that launched PowerShell on the host computer to connect to the remote computer. Use this parameter to be prompted for an alternate credential to use for remote connections. <b><i>This parameter is only for remote Windows connections, not Linux. See <a href="#">Remote Scanning</a> for more.</i></b>
<b>Requires:</b>	<a href="#">-ComputerName</a>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ComputerName Workstation01, "C:\ComputerList.txt" -AltCredential</code>

### **-CiscoConfig**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	Path to Cisco show tech-support output file(s)/folder(s) to be scanned. Multiple entries may be specified using comma separation. <b><i>If a folder is specified, the folder will be recursively searched for qualifying show tech-support files. See <a href="#">Cisco Scanning</a> for more.</i></b>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -CiscoConfig C:\ShowTech.txt, "C:\ShowTechFolder\"</code>

### **-SelectDeviceType**

<b>Parameter Type:</b>	<String[]>
<b>Description:</b>	For Cisco IOS, IOS-XE Catalyst 9k series, and IOS-XE ISR devices, specify if the device is acting as a router, switch or both using comma separation. All other IOS-XE devices will be automatically detected and this parameter ignored if set.
<b>Valid Entries:</b>	<ul style="list-style-type: none"> <li>• Router</li> <li>• Switch</li> </ul>
<b>Requires:</b>	<a href="#">-CiscoConfig</a>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -CiscoConfig C:\IOS_ShowTech.txt -SelectDeviceType Router,Switch</code>

### **-ThrottleLimit**

<b>Parameter Type:</b>	<Int16>
<b>Description:</b>	Maximum number of computers or configuration files to scan concurrently for remote and Cisco scans.
<b>Requires:</b>	<a href="#">-ComputerName</a> or <a href="#">-CiscoConfig</a>
<b>Default:</b>	"10"
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ComputerName Workstation01, "C:\ComputerList.txt" -ThrottleLimit 15</code>

## *Utility Options*

Below are non-scan related parameters available in Evaluate-STIG:

### **-ListSupportedProducts**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Displays all STIGs <a href="#">supported</a> by Evaluate-STIG.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ListSupportedProducts</code>

### **-ListApplicableProducts**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Displays all STIGs <a href="#">supported</a> by Evaluate-STIG that would be applicable to the asset.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -ListApplicableProducts [-AllowDeprecated]</code>

### **-Version**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Displays the version of Evaluate-STIG.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Version</code>

### **-Update**

<b>Parameter Type:</b>	<Switch>
<b>Description:</b>	Updates to the current version of Evaluate-STIG available on SPORK.
<b>Requires:</b>	Connection to the DODIN.
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Update</code>

### **-LocalSource**

<b>Parameter Type:</b>	<String>
<b>Description:</b>	Updates from a path that contains the extracted Evaluate-STIG content.
<b>Requires:</b>	<a href="#">-Update</a>
<b>Example:</b>	<code>.\Evaluate-STIG.ps1 -Update -LocalSource \\Server01\Evaluate-STIG\</code>

### -Proxy

**Parameter Type:** <String>

**Description:** Proxy to use when updating Evaluate-STIG. System proxy used by default.

**Requires:** [-Update](#)

**Example:**

```
.\Evaluate-STIG.ps1 -Update -Proxy 192.168.2.1:8080
```

## 3.2 Bash Wrapper Script

Evaluate-STIG provides a Bash wrapper script (`Evaluate-STIG_Bash.sh`) for Linux systems that do not have PowerShell installed. PowerShell is still used to perform the scan but it is a temporarily extracted instance of PowerShell that does not leave the Evaluate-STIG folder. **The PowerShell archive is not included with Evaluate-STIG and must be added by either using the [--DownloadPS](#) option or manually downloading.**

### Parameters

#### --DownloadPS

**Description:** Downloads the current version of PowerShell and saves it as `powershell.tar.gz` in the Evaluate-STIG folder.

**Requires:** Internet access. Alternatively, the appropriate `powershell-7.[x].[x]-linux.tar.gz` manually downloaded, renamed to `powershell.tar.gz`, and placed in the Evaluate-STIG folder.

- RHEL 7 - <https://github.com/PowerShell/PowerShell/releases/tag/v7.3.0>
- All Others - <https://github.com/PowerShell/PowerShell/releases/latest>

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --DownloadPS
```

#### --PSPath

**Description:** Path to directory containing PowerShell executable (`pwsh`) if PowerShell is installed.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --PSPath /opt/microsoft/powershell/7/
```

#### --ScanType

**Description:** Sets the [-ScanType](#) parameter for `Evaluate-STIG.ps1`.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ScanType Unclassified
```

#### --Marking

**Description:** Sets the [-Marking](#) parameter for `Evaluate-STIG.ps1`.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Marking MyMarking
```

#### --TargetComments

**Description:** Sets the [-TargetComments](#) parameter for `Evaluate-STIG.ps1`.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --TargetComments "My comments"
```

### --VulnTimeout

**Description:** Sets the [-VulnTimeout](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --VulnTimeout 30
```

### --FileSearchTimeout

**Description:** Sets the [-FileSearchTimeout](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --FileSearchTimeout 120
```

### --AnswerKey

**Description:** Sets the [-AnswerKey](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --AnswerKey MyKey
```

### --AFPath

**Description:** Sets the [-AFPath](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --AFPath //Server01/AnswerFiles/
```

### --Output

**Description:** Sets the [-Output](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output CombinedCKL,CKLB
```

### --JSON

**Description:** Sets the [-JSON](#) parameter for Evaluate-STIG.ps1.

**Requires** [--Output Console](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output Console --JSON
```

### --OutputPayload

**Description:** Sets the [-OutputPayload](#) parameter for Evaluate-STIG.ps1.

**Requires** [--Output CSV|CombinedCSV|Splunk](#) or [--JSON](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output CSV --OutputPayload HostName,Title,GroupID>Status
```

### --OutputPath

**Description:** Sets the [-OutputPath](#) parameter for Evaluate-STIG.ps1.

**Requires** [--Output](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output CombinedCKL,CKLB --OutputPath //Server01/MyShare
```

### --PreviousToKeep

**Description:** Sets the [-PreviousToKeep](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--Output](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output CombinedCKL,CKLB -PreviousToKeep 5
```

### --SelectSTIG

**Description:** Sets the [-SelectSTIG](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --SelectSTIG Firefox,Ubuntu20
```

### --SelectVuln

**Description:** Sets the [-SelectVuln](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Requires:** [--SelectSTIG](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --SelectSTIG Firefox,Ubuntu20 --SelectVuln V-251545,V-238196
```

### --ExcludeVuln

**Description:** Sets the [-ExcludeVuln](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Requires:** [--SelectSTIG](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --SelectSTIG Firefox,Ubuntu20 --ExcludeVuln V-251545,V-238196
```

### --ExcludeSTIG

**Description:** Sets the [-ExcludeSTIG](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ExcludeSTIG Firefox,Ubuntu20
```

### --ForceSTIG

\*WARNING\* Evaluate-STIG results are not guaranteed with this option. Use at own risk.

**Description:** Sets the [-ForceSTIG](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ForceSTIG Firefox,Ubuntu20
```

### --SelectInstance

**Description:** Sets the [-SelectInstance](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --SelectInstance MyInstance01,MyInstance02
```

### --ExcludeInstance

<b>Description:</b>	Sets the <a href="#">-ExcludeInstance</a> parameter for Evaluate-STIG.ps1. Use comma separation for multiple.
---------------------	---

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --ExcludeInstance MyInstance01,MyInstance02</code>
--

### --SelectDatabase

<b>Description:</b>	Sets the <a href="#">-SelectDatabase</a> parameter for Evaluate-STIG.ps1. Use comma separation for multiple.
---------------------	--

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --SelectDatabase MyDB01,MyDB02</code>
---

### --ExcludeDatabase

<b>Description:</b>	Sets the <a href="#">-ExcludeDatabase</a> parameter for Evaluate-STIG.ps1. Use comma separation for multiple.
---------------------	---

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --ExcludeDatabase MyDB01,MyDB02</code>
--

### --SelectSite

<b>Description:</b>	Sets the <a href="#">-SelectSite</a> parameter for Evaluate-STIG.ps1. Use comma separation for multiple.
---------------------	--

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --SelectSite MySite01,MySite02</code>
---

### --ExcludeSite

<b>Description:</b>	Sets the <a href="#">-ExcludeSite</a> parameter for Evaluate-STIG.ps1. Use comma separation for multiple.
---------------------	---

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --ExcludeSite MySite01,MySite02</code>
--

### --AllowDeprecated

<b>Description:</b>	Sets the <a href="#">-AllowDeprecated</a> parameter for Evaluate-STIG.ps1.
---------------------	--

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --AllowDeprecated</code>
--

### --AllowSeverityOverride

<b>Description:</b>	Sets the <a href="#">-AllowSeverityOverride</a> parameter for Evaluate-STIG.ps1.
---------------------	--

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --AllowSeverityOverride</code>
--

### --AllowIntegrityViolations

<b>Description:</b>	Sets the <a href="#">-AllowIntegrityViolations</a> parameter for Evaluate-STIG.ps1.
---------------------	---

<b>Example:</b>
-----------------

<code>sudo bash Evaluate-STIG_Bash.sh --AllowIntegrityViolations</code>
---

### --ApplyTattoo

**Description:** Sets the [-ApplyTattoo](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ApplyTattoo
```

### --SMCollection

**Description:** Sets the [-SMCollection](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--Output STIGManager](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output STIGManager--SMCollection MyCollection
```

### --SMPassphrase

**Description:** Sets the [-SMPassphrase](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--Output STIGManager](#) and [--SMCollection](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output STIGManager--SMCollection MyCollection --SMPassphrase MyPassphrase
```

### --SplunkHECName

**Description:** Sets the [-SplunkHECName](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--Output Splunk](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Output Splunk --SplunkHECName MyHECName
```

### --CiscoConfig

**Description:** Sets the [-CiscoConfig](#) parameter for Evaluate-STIG.ps1. Use comma separation for multiple.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --CiscoConfig /opt>ShowTech.txt,/opt>ShowTechFolder/
```

### --SelectDeviceType

**Description:** Sets the [-SelectDeviceType](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--CiscoConfig](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --CiscoConfig /opt/IOS_ShowTech.txt --SelectDeviceType Router,Switch
```

### --ThrottleLimit

**Description:** Sets the [-ThrottleLimit](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--CiscoConfig](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --CiscoConfig /opt>ShowTech.txt,/opt>ShowTechFolder/ --ThrottleLimit 15
```

### --ListSupportedProducts

**Description:** Sets the [-ListSupportedProducts](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ListSupportedProducts
```

### --ListApplicableProducts

**Description:** Sets the [-ListApplicableProducts](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --ListApplicableProducts
```

### --Version

**Description:** Sets the [-Version](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Version
```

### --Update

**Description:** Sets the [-Update](#) parameter for Evaluate-STIG.ps1.

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Update
```

### --LocalSource

**Description:** Sets the [-LocalSource](#) parameter for Evaluate-STIG.ps1.

**Requires:** [--Update](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Update --LocalSource //Server01/Evaluate-STIG
```

### --Proxy

**Description:** Sets the [-Proxy](#) parameter for Evaluate-STIG.ps1 or [--DownloadPS](#) parameter.

**Requires:** [--Update](#) or [--DownloadPS](#)

**Example:**

```
sudo bash Evaluate-STIG_Bash.sh --Update --Proxy 192.168.2.1:8080
```

### 3.3 Answer Files

Answer files are user-defined XML files to further automate *Not Reviewed* checks that cannot be evaluated technically or may contain verbiage in the STIG's Check Text preventing Evaluate-STIG from reaching a definitive status. Answer Files are also useful for providing justification or mitigation to known *Open* checks. Answer Files will place user-defined text into the Comments field of the checklist, can change the resultant Status of the check, and may include PowerShell code to add logic for ensuring certain criteria is met before the answer is applied. Answer files may be stored in the .\Evaluate-STIG\AnswerFiles folder or an alternate location when using the [-AFPath](#) option.

⇒ **Note:** The [Evaluate-STIG GUI.ps1](#) provides a graphical interface for creating, editing, and maintaining your answer files. Unless you are very comfortable working with raw XML, it is recommended to use this to ensure a properly formatted answer file.

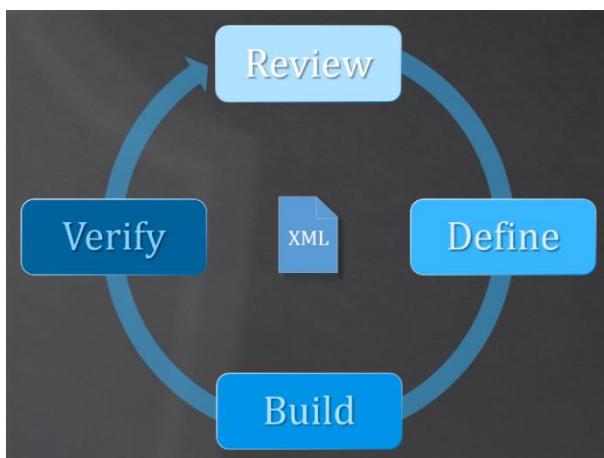
Answer files are per-STIG. Ideally, you will have a single answer file for each STIG that contains all checks needing answers for that STIG. An answer file may contain multiple vulnerability IDs, multiple answer keys per vulnerability ID, and multiple Indexes per answer key.

Evaluate-STIG will automatically select the answer file to use from [AFPath] by matching the Evaluate-STIG's STIG ShortName with the <STIGComments Name> element within the answer file. **If multiple answer files for the STIG exist, Evaluate-STIG will utilize the most recently modified file.**

⇒ **Note:** Answer files are not intended to hide or explain away non-compliant checks that do not have an approved reason to be in a non-compliant state. Answer file development should start AFTER a good baseline of asset configuration has been established and an Evaluate-STIG scan of that configuration has been completed.

#### *Development Cycle*

Answer files are an advanced feature of Evaluate-STIG. They can be written from scratch using any text editor or use the [Evaluate-STIG GUI](#) included with Evaluate-STIG to draft answer files in a GUI interface. Collaboration between SMEs and cybersecurity authorities should be fostered to certify the quality and trust of the answers being provided. The following development cycle is recommended when developing answer file content:



**1. Review:** SME and cyber authority should review scan results for checks that could benefit from an answer file.

**2. Define:** SME and cyber authority collaborate on verbiage (Comment) and any criteria that may need developed (ValidationCode).

**3. Build:** SME writes / updates answer file based on defined requirements.

**4. Verify:** SME executes a re-scan using the answer file to confirm expectation is met.

## Structure

Answer files are XML documents and must follow proper structure. Evaluate-STIG will validate every answer file against a schema to ensure proper formatting. Any that fail validation will be recorded in the [Evaluate-STIG.log](#) and console. Below is the basic structure of an answer file:

```
<STIGComments Name="_replace_with_stig_shortname_>
  <Vuln ID="V-00000">
    <AnswerKey Name="_name_that_makes_sense_for_your_needs_or_DEFAULT">
      <Answer Index="1" ExpectedStatus="NR" Hostname="" Instance="" Database="" Site="" ResultHash="">
        <ValidationCode></ValidationCode>
        <ValidTrueStatus></ValidTrueStatus>
        <ValidTrueComment></ValidTrueComment>
        <ValidFalseStatus></ValidFalseStatus>
        <ValidFalseComment></ValidFalseComment>
      </Answer>
    </AnswerKey>
  </Vuln>
</STIGComments>
```

### [`<STIGComments>`](#)

<b>Description:</b>	STIG the answer file targets. Evaluate-STIG automatically associates this answer file with the STIG identified here.
<b>Parent Element:</b>	None – top level
<b>Occurrence:</b>	This element may only be specified once within the answer file.
<b>Attributes:</b>	<ul style="list-style-type: none"> <li>• <b>Name:</b> STIG ShortName as displayed in <a href="#">-ListSupportedProducts</a> or <a href="#">-SelectSTIG</a>.</li> </ul>
<b>Example:</b>	<code>&lt;STIGComments Name="MSEdge"&gt;</code>

### [`<Vuln>`](#)

<b>Description:</b>	Group ID or Rule ID the answer is for.
<b>Parent Element:</b>	<a href="#"><code>&lt;STIGComments&gt;</code></a>
<b>Occurrence:</b>	This element may be specified multiple times within the <a href="#"><code>&lt;STIGComments&gt;</code></a> section but each occurrence must be unique. If both the Group ID and Rule ID for the same check are configured, first listed in the answer file wins.
<b>Attributes:</b>	<ul style="list-style-type: none"> <li>• <b>ID:</b> Group ID or Rule ID from STIG. <i>Note: Using Rule ID may require more frequent updates to the answer file. If the Rule ID in the STIG changes due to a STIG update, the ID will need to be updated in the answer file before it will be applicable.</i></li> </ul>
<b>Example:</b>	<code>&lt;Vuln ID="V-235753"&gt; or &lt;Vuln ID="SV-235753r1015297_rule"&gt;</code>

### [`<AnswerKey>`](#)

<b>Description:</b>	Key name that is called with <a href="#">-AnswerKey</a> parameter.
<b>Parent Element:</b>	<a href="#"><code>&lt;Vuln&gt;</code></a>
<b>Occurrence:</b>	This element may be specified multiple times within each <a href="#"><code>&lt;Vuln&gt;</code></a> section but each occurrence within <a href="#"><code>&lt;Vuln&gt;</code></a> must be unique.
<b>Attributes:</b>	<ul style="list-style-type: none"> <li>• <b>Name:</b> May be “DEFAULT” or any other text. See <a href="#">Selection of Winning Answer</a> for how Evaluate-STIG selects the key when multiple AnswerKey sections are configured within a <a href="#"><code>&lt;Vuln&gt;</code></a>.</li> </ul>
<b>Example:</b>	<code>&lt;AnswerKey Name="MyNetworkName"&gt; or &lt;AnswerKey Name="DEFAULT"&gt;</code>

## <Answer>

<b>Description:</b>	Criteria for determining answer applicability. Weights are calculated for each answer to determine the winning answer. Attributes that are configured but not valid in the context of the STIG are not included in weighting. See <a href="#">Identifying Optional Attributes</a> for more on the attributes noted as “optional”.
<b>Parent Element:</b>	<a href="#">&lt;AnswerKey&gt;</a>
<b>Occurrence:</b>	This element may only be specified multiple times within an <a href="#">&lt;AnswerKey&gt;</a> section provided the Index attribute is unique.
<b>Attributes:</b>	<ul style="list-style-type: none"> <li>• <b>Index:</b> Unique identifier. May be any value but must be unique to other indexes within the same <a href="#">&lt;AnswerKey&gt;</a>.</li> <li>• <b>ExpectedStatus:</b> The Status that Evaluate-STIG determined the check to be without modification. If this does not match the Status that Evaluate-STIG determined, the answer is ignored. Must be a <a href="#">valid status</a> entry.</li> <li>• <b>Hostname:</b> <a href="#">[Optional]</a> Hostname(s) of systems this answer applies to. Use comma separation to specify multiple.</li> <li>• <b>Instance:</b> <a href="#">[Optional]</a> Instance(s) this answer applies to. Use comma separation to specify multiple.</li> <li>• <b>Database:</b> <a href="#">[Optional]</a> Database(s) this answer applies to. Use comma separation to specify multiple.</li> <li>• <b>Site:</b> <a href="#">[Optional]</a> Site(s) this answer applies to. Use comma separation to specify multiple.</li> <li>• <b>ResultHash:</b> <a href="#">[Optional]</a> ResultHashes(s) this answer applies to. Use comma separation to specify multiple.</li> </ul>

### Example:

```
<Answer Index="1" ExpectedStatus="NR" Hostname="PC1" Instance="" Database="" Site="" ResultHash="">
```

## <ValidationCode>

<b>Description:</b>	<a href="#">[Optional]</a> PowerShell code to be executed before applying answer. This is for providing logic to checks that must meet additional criteria. Status and Comment determined by the value returned. Returned value may be <b>\$true/\$false</b> or a Hashtable object. If object, it MUST contain both <b>Valid</b> (as Boolean) and <b>Results</b> keys. Both Results and the answer file comment will be written to the Comments field of the STIG check. If this element is left empty, then <b>\$true</b> is assumed. See <a href="#">Validation Code</a> section for more.
<b>Parent Element:</b>	<a href="#">&lt;AnswerKey&gt;</a>
<b>Occurrence:</b>	This element may only be specified once within each <a href="#">&lt;AnswerKey&gt;</a> section.
<b>Expected Value:</b>	PowerShell that returns <b>\$true \$false</b> , a <a href="#">hashtable</a> , or left empty.
<b>Example:</b>	<pre>&lt;ValidationCode&gt;Test-Path \$env:windir&lt;/ValidationCode&gt;</pre>

## <ValidTrueStatus>

<b>Description:</b>	Status of check if <a href="#">&lt;ValidationCode&gt;</a> code is empty, returns <b>\$true</b> , or Valid in hashtable is <b>\$true</b> . If empty scanned Status will remain unchanged.
<b>Parent Element:</b>	<a href="#">&lt;AnswerKey&gt;</a>
<b>Occurrence:</b>	This element may only be specified once within each <a href="#">&lt;AnswerKey&gt;</a> section.
<b>Expected Value:</b>	May be left empty or a <a href="#">valid status</a> value used.
<b>Example:</b>	<pre>&lt;ValidTrueStatus&gt;NotAFinding&lt;/ValidTrueStatus&gt;</pre>

### <ValidTrueComment>

<b>Description:</b>	Text to be put into Comments if <a href="#">ValidationCode</a> is empty or returns \$true, or Valid in hashtable is \$true.
<b>Parent Element:</b>	<a href="#">AnswerKey</a>
<b>Occurrence:</b>	This element may only be specified once within each <a href="#">AnswerKey</a> section.
<b>Expected Value:</b>	Any text is acceptable.
<b>Example:</b>	<ValidTrueComment>My comment for when ValidationCode is empty or returns \$true.</ValidTrueComment>

### <ValidFalseStatus>

<b>Description:</b>	Status of check if <a href="#">ValidationCode</a> is not \$true, or Valid in hashtable is \$false. If empty scanned Status will remain unchanged.
<b>Parent Element:</b>	<a href="#">AnswerKey</a>
<b>Occurrence:</b>	This element may only be specified once within each <a href="#">AnswerKey</a> section.
<b>Expected Value:</b>	May be left empty or a <a href="#">valid status</a> value used.
<b>Example:</b>	<ValidFalseStatus>Open</ValidFalseStatus>

### <ValidFalseComment>

<b>Description:</b>	Text to be put into Comments if <a href="#">ValidationCode</a> is not \$true, or Valid in hashtable is \$false.
<b>Parent Element:</b>	<a href="#">AnswerKey</a>
<b>Occurrence:</b>	This element may only be specified once within each <a href="#">AnswerKey</a> section.
<b>Expected Value:</b>	Any text is acceptable.
<b>Example:</b>	<ValidFalseComment>My comment for when ValidationCode returns a value not \$true.</ValidFalseComment>

## Status Formats

The following formats are valid entries for ExpectedStatus, ValidTrueStatus, and ValidFalseStatus. They may be mixed formats if desired. Evaluate-STIG will automatically cross-reference formats when processing status entries:

EVALSTIG	CKL	CKLB	XCCDF
NR	Not_Reviewed	Not_Reviewed	notchecked
NF	NotAFinding	not_a_finding	pass
O	Open	Open	fail
NA	Not_Applicable	Not_Applicable	notapplicable

## Validation Code

The `<ValidationCode>` element is an optional configuration for providing logic within your answer files to determine which status and comment should be applied to the result. The code must return either a Boolean value or a hashtable containing Boolean **Valid** and string **Results** values. If the output is `$true`, then the `ValidTrueStatus` and `ValidTrueComment` are applied. Otherwise, the `ValidFalseStatus` and `ValidFalseComment` are applied. If `<ValidationCode>` is not configured, then `$true` is assumed and `ValidTrueStatus` and `ValidTrueComment` are always applied. Examples:

### Returning a simple Boolean value:

```
<ValidationCode>
$Fruits = @("Apples", "Oranges", "Peaches")
if ("Bananas" -in $Fruits) {
    return $true
}
else {
    return $false
}
</ValidationCode>
```

### Returning a hashtable value:

```
<ValidationCode>
$ValidationObject = @{
    Valid      = $false
    Results   = ""
}

$Fruits = @("Apples", "Oranges", "Peaches")
if ("Oranges" -in $Fruits) {
    $ValidationObject.Valid = $true
    $ValidationObject.Results = "Bananas are in the list of fruits."
}
else {
    $ValidationObject.Valid = $false
    $ValidationObject.Results = "Bananas are NOT in the list of fruits."
}

return $ValidationObject
</ValidationCode>
```

## Exposed Variables

The following scan data will be exposed to answer files that may be called from validation code:

Attribute	Type	Description
\$ESPath	[String]	Path that Evaluate-STIG.ps1 was executed from.
\$ExpectedStatus	[String]	Status that Evaluate-STIG determined. Will be in CKL format (refer to <a href="#">Status Formats</a> ).
\$ResultHash	[String]	SHA1 hash of ResultData. Reference FindingDetails for calculated ResultHash.
\$ResultData	[Array]	FindingDetails content after "~~~~~" bar.
\$Username	[String]	Username processed for HKCU check. Reference to FindingDetails for appropriate Username value.
\$UserSID	[String]	User SID processed for HKCU check. Reference to FindingDetails for appropriate UserSID value.
\$Instance	[String]	Instance name processed. Reference FindingDetails for appropriate Instance value.
\$Database	[String]	Database name processed. Reference FindingDetails for appropriate Database value.
\$Site	[String]	Site name processed. Reference FindingDetails for appropriate Site value.
\$ShowRun	[Array]	Show-RunningConfig section from Cisco Show-TechSupport.

Example leveraging these variables in your validation code:

```

if ($Site -eq "Default Web Site") { # If the $Site being scanned is "Default Web Site", process.
    # Initialize hashtable object
    $ValidationObject = @{
        Valid      = $false
        Results   = ""
    }

    if ($ResultHash -eq "B6AA552093C875CFBF6E0F8C4BAA73C928D14474") {
        # The $ResultHash matches what is expected for a ValidTrueStatus|ValidTrueComment
        $ValidationObject.Valid = $true
        $ValidationObject.Results = "ResultHash for $($Site) equals the expected hash value."
    }
    else {
        # The $ResultHash differs from expected so ValidFalseStatus|ValidFalseComment is applied.
        $ValidationObject.Valid = $false
        $ValidationObject.Results = "ResultHash for $($Site) is not the expected hash value"
    }
}

return $ValidationObject
}

```

## *Selection of Winning Answer*

Evaluate-STIG uses the following process and weighting for determining which answer should be applied when the answer file has a configuration for the GroupID or RuleID currently being scanned. Details on the selected answer and the calculated weight for the vulnerability ID can be found in the [Evaluate-STIG.log](#).

### **1. AnswerKey Selection**

- a. Answer Key that equals value of [-AnswerKey](#) parameter on command line OR
- b. Answer Key with name of "DEFAULT".

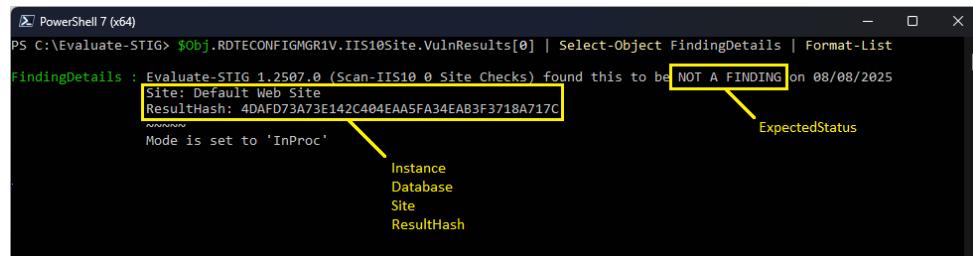
### **2. Index Selection**

All Indexes are weighted based on the configured attributes that are applicable (see [Identifying Optional Attributes](#)). The highest is the selected answer. If multiple Indexes are tied with the highest weight, the first winning Index listed in the answer file will be selected. The following attributes, if configured in the Index AND within context of the STIG, are summed to calculate the weight:

Attribute	Weight	Description
ExpectedStatus	0	ExpectedStatus is a hard requirement. If not a match, the Index is ignored. Any <a href="#">format</a> may be used provided it equates to the status returned by Evaluate-STIG.
Hostname	5	Name of the machine. Comma separate for multiple. If configured, the machine name must match or Index is ignored.
Instance	4	Instance (e.g. SQL). Comma separate for multiple. If configured, the Instance must match or Index is ignored.
Database	3	Database (e.g. SQL). Comma separate for multiple. If configured, the Database must match or Index is ignored.
Site	2	Site (e.g. IIS). Comma separate for multiple. If configured, the Site must match or Index is ignored.
ResultHash	1	Hash of Finding Details text below the "~~~~~" line. If configured, the ResultHash must match or Index is ignored.
<AnswerKey Name>	16	An <AnswerKey Name> match on any value not "DEFAULT" will have a starting weight of 16.

## Identifying Optional Attributes

Apart from Hostname, which is simply the name of the computer being scanned, values for attributes that are in the context of the STIG can be found in the Finding Details section of the output:



The screenshot shows a PowerShell window running on Windows 7 (x64). The command executed is `PS C:\Evaluate-STIG> $Obj.RDTECONFIGMGR1V.IIS10Site.VulnResults[0] | Select-Object FindingDetails | Format-List`. The output displays a single object with the following properties:

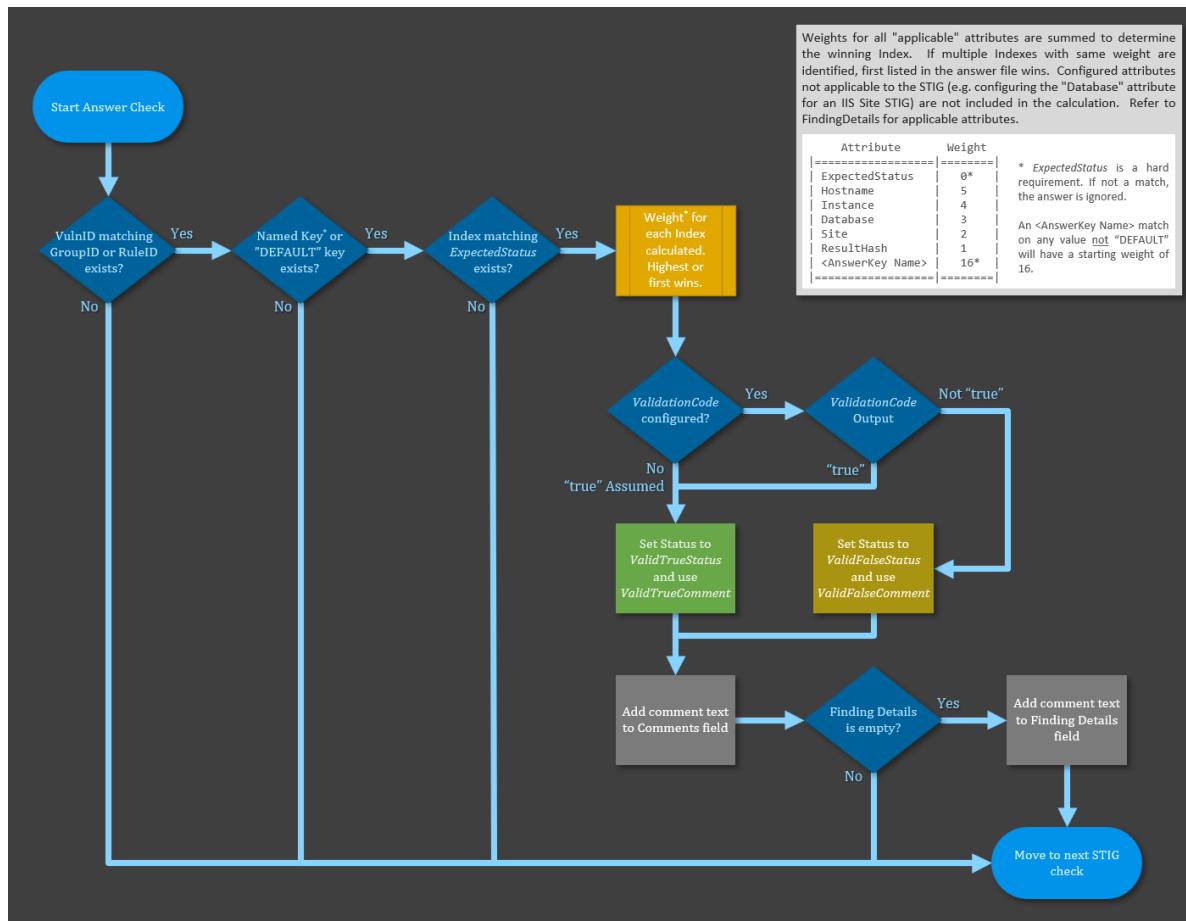
- FindingDetails :** Evaluate-STIG 1.2507.0 (Scan-IIS10 0 Site Checks) Found this to be NOT A FINDING on 08/08/2025
- Site:** Default Web Site
- ResultHash:** 4DAFD73A73E142C404EA5FA34EAB3F3718A717C
- Mode is set to 'InProc'**
- Instance**
- Database**
- Site**
- ResultHash**

Annotations with yellow arrows point to the **ResultHash** value and the **ExpectedStatus** field.

Configuring an attribute in the [Index](#) will require that the attribute's value from the scan match the [Index](#) configuration and that attribute will be added to the weight. If multiple values are configured in the [Index](#) with comma separation, each will be checked for a match with the scan's value.

⇒ **Note:** Only attributes that are within the context of the STIG will be displayed in Finding Details. Attributes configured in the [Index](#) but not listed in Finding Details are ignored (matching is not required) and not added to the weight.

## Answer File Flowchart



## Sample Answer File

Below is an example answer file for the Microsoft Edge STIG. It will address up to two vulnerability IDs (V-235751 and V-235753).

```

<STIGComments Name="MSEdge">
  <Vuln ID="V-235751">
    <!--Edge development tools must be disabled.-->
    <AnswerKey Name="MyCustomKey">
      <Answer Index="1" ExpectedStatus="0" Hostname="" Instance="" Database="" Site="" ResultHash="">
        <ValidationCode></ValidationCode>
        <ValidTrueStatus>0</ValidTrueStatus>
        <ValidTrueComment>RDTE is a development environment so developer tools are required.</ValidTrueComment>
        <ValidFalseStatus>0</ValidFalseStatus>
        <ValidFalseComment>0</ValidFalseComment>
    </AnswerKey>
    <AnswerKey Name="DEFAULT">
      <Answer Index="1" ExpectedStatus="0" Hostname="" Instance="" Database="" Site="" ResultHash="">
        <ValidationCode></ValidationCode>
        <ValidTrueStatus>0</ValidTrueStatus>
        <ValidTrueComment>Non RDTE systems must not have developer tools enabled. This needs fixed.</ValidTrueComment>
        <ValidFalseStatus>0</ValidFalseStatus>
        <ValidFalseComment>0</ValidFalseComment>
    </AnswerKey>
  </Vuln>
  <Vuln ID="V-235753">
    <!--URLs must be whitelisted for plugin use if used.-->
    <AnswerKey Name="MyCustomKey">
      <Answer Index="1" ExpectedStatus="NR" Hostname="MyPC1,MyPC2" Instance="" Database="" Site="" ResultHash="">
        <ValidationCode>
$ValidationResults = @{
  Valid = $true
  Results = ""
}

$key = Get-Item -Path "HKLM:\SOFTWARE\Policies\Microsoft\Edge\PopupsAllowedForUrls"
$key.GetValueNames() | ForEach-Object {$key.GetValue($_)} | ForEach-Object {
  If ($_.Name -notin @('*.navy.mil','*.apps.mil')) {
    $ValidationResults.Valid = $false
    $ValidationResults.Results += "Unapproved URL: $_`n"
  }
}
If ($ValidationResults.Valid -eq $true) {
  $ValidationResults.Results = "Identified URLs are approved."
}

Return $ValidationResults
        </ValidationCode>
        <ValidTrueStatus>NF</ValidTrueStatus>
        <ValidTrueComment>Identified URLs are approved for whitelisting.</ValidTrueComment>
        <ValidFalseStatus>0</ValidFalseStatus>
        <ValidFalseComment>An identified URL is not approved for whitelisting.</ValidFalseComment>
    </AnswerKey>
  </Vuln>
</STIGComments>

```

In this example, the <Answer> will be applied for each <Vuln> depending on the command executed:

```
. \Evaluate-STIG.ps1
```

- **V-235751:**  
If the Status returned by Evaluate-STIG is Open (0), the DEFAULT Index will be applied since -AnswerKey was not specified in the command.
- **V-235753:**  
Will not be processed since -AnswerKey was not specified in the command and there is no "DEFAULT" key configured for this check.

```
. \Evaluate-STIG.ps1 -AnswerKey MyCustomKey
```

- **V-235751:**  
If the Status returned by Evaluate-STIG is Open (0), the RDTE Index will be applied since -AnswerKey MyCustomKey specified in the command.
- **V-235753:**  
If the Status returned by Evaluate-STIG is Not Reviewed (NR) AND the computer name is either "MyPC1" or "MyPC2", then MyCustomKey Index 1 is applied since -AnswerKey MyCustomKey is specified. Final Status and Comments determined by <ValidationCode> output.

*Answer File Maintenance and Migration*

#### **Maintenance:**

Answer files must be maintained to ensure they stay appropriate with STIG updates. This is especially true for answer files that use the Rule ID from the STIG. Using Rule ID in your answer file instead of Group ID helps ensure answer files don't become stale and reduces the risk of inappropriate answers being applied. But this also means that your answer files will require more frequent updating. Any change to a STIG check results in a change to its Rule ID. Rule IDs configured in an answer file that no longer match the Rule ID in the current STIG are no longer applicable answers and are automatically ignored.

## Migration:

Answer files that were developed for earlier versions of Evaluate-STIG must be migrated to the new format. Legacy answer files will fail schema validation and will not be used in scans. Be sure to migrate any older answer files to ensure they still work in your environment.

Both of the above needs can be addressed using either the Maintain button in the Evaluate-STIG GUI's [Answer File Tools Tab](#) or with the `Maintain-AnswerFiles.ps1` script located in the Auxiliary folder from the Evaluate-STIG distributable .zip.

## 3.4 Unsupported STIGs

It is possible for Evaluate-STIG to create checklists for STIGs that are not natively supported using an answer file. To add an unsupported STIG:

- Extract the xccdf.xml file from the unsupported STIG's .zip and place it in the <Evaluate-STIG>\StigContent\Manual folder.
  - Add -ForceSTIG <ShortName> to your command line. Unsupported STIG shortnames will always be prefixed with "M\_". Pressing [CTRL]+[SPACE] after ForceSTIG will display the list of all possible shortnames to choose from.
  - Optionally, include the unsupported STIG in -SelectSTIG if you want to limit the scan to just specific STIG(s).
  - Create an answer file for the checks you wish to have automated in the unsupported STIG.

```
PS C:\Evaluate-STIG> ./Evaluate-STIG.ps1 -ForceSTIG M_WindowsPAW
ADDomain          IIS0Site                         MSOneNote2013           SQL2014DB
ADForest          IISBSvServer                    MSOneNote2016           SQL2014Instance
ADReplica         IISBSCluster                   MSOutlook2013          SQL2015
ADReplica         IISBSClusterProxContinuous    MSOutlook2016          SQL2015Instance
AdobeAcrobat      JavaREBmLinux                  MSPowerPoint2013        SQL2020B
AdobeAcrobat      JavaREBmWindows                MSPowerPoint2016        SQL2022
AdobeReader       JBoss                           MSPowerPoint2016        SQL2022Instance
Apache24          MongoDB                       MSProject2016          SQL2022
Apache24          MySQL                          MSPublisher2013        SQL2016
Apache24          MySQL55                       MSPublisher2016        Ubuntu12
Apache24          MySQL56                       MSPublisher2016        Ubuntu14
Apache24          MySQL57                       MSPublisher2016        Ubuntu16
Apache24          MySQL80                       MSSql2016              Ubuntu18
Apache24          MySQL85                       MSSql2016              Ubuntu20
ApacheTomcat      HSEdge                          MSSqlDesigner2013       Ubuntu22
ArcGIS           MSExcel2010                   MSVisio2013             Ubuntu24
ArcGIS           MSExcel2013                   MSVisio2013             Win10
CiscoEIRTnDM     MSExchange2016EdgeTP            MSWord2013              Win11
CiscoEIRTnDM     MSExchange2016B                 MSWord2016              Win7
CiscoEIRTnDM     MSExchange2019Edge              MSWord2016              Win10
CiscoEIRTnDM     MSExchange2019EdgeTP            Oracle11               WinFirewall
CiscoEIRTnDM     MSExchange2019EdgeTP            Oracle12               WinServer2008R2NS
CitrixICSpace     MSGroove2013                 Oracle12               WinServer2008R2DC
DotNetN4          MSInfoPath2013                Oracle18               WinServer2012Hs
Firefox          MozillaFirefox2025             Oracle19               WinServer2016
Hyper-V          MSOffice365S                 PgSQL9x               WinServer2016
HorizonClient    MSOffice365S                 RHEL6                  WinServer2012
HorizonConnectionServer MSOffice365S              RHEL7                  WinServer2012
IE11              MSOfficeSystem2016            RHEL8                  WinServer2013
IIS10Server       MSOneDrive                     SharePoint2013         WinServer2019
IIS10Server       WindowsPAW_STIG
```

## 3.5 Preferences.xml

The Preferences.xml file may be used to preset some Evaluate-STIG, STIG Manager, and Manage-AnswerFile settings.

If a parameter is both configured in Preferences.xml and on the command line, the command line parameter will be used.

⇒ *Note:* A backup of the default preferences file is located under ".\Evaluate-STIG\xml\Preferences.default.xml"

### EvaluateSTIG Section

The following [scan settings](#) may be configured:

- [<ScanType>](#)
- [<Marking>](#)
- [<TargetComments>](#)
- [<VulnTimeout>](#)
- [<FileSearchTimeout>](#)
- [<AnswerKey>](#)
- [<AFPath>](#)
- [<Output>](#)
- [<JSON>](#)
- [<OutputPath>](#)
- [<PreviousToKeep>](#)
- [<AllowDeprecated>](#)
- [<AllowSeverityOverride>](#)
- [<ExcludeSTIG>](#)
- [<ExcludeVuln>](#)
- [<ApplyTattoo>](#)
- [<SMCollection>](#)
- [<SplunkHECName>](#)

```

<EvaluateSTIG>
  <ScanType>Unclassified</ScanType>
  <Marking></Marking>
  <TargetComments></TargetComments>
  <VulnTimeout>15</VulnTimeout>
  <FileSearchTimeout>240</FileSearchTimeout>
  <AnswerKey>DEFAULT</AnswerKey>
  <AFPath></AFPath>
  <Output>Console</Output>
  <JSON>false</JSON>
  <OutputPath></OutputPath>
  <PreviousToKeep>1</PreviousToKeep>
  <AllowDeprecated>false</AllowDeprecated>
  <AllowSeverityOverride>false</AllowSeverityOverride>
  <ExcludeSTIG></ExcludeSTIG>
  <ExcludeVuln></ExcludeVuln>
  <ApplyTattoo>false</ApplyTattoo>
  <SMCollection></SMCollection>
  <SplunkHECName></SplunkHECName>
</EvaluateSTIG>

```

### OutputPayload Section

The <OutputPayload> section configures the default fields to be outputted when using [-Output](#) [CSV](#) | [CombinedCSV](#) | [Splunk](#) or [-JSON](#) parameters. All are Boolean and must be lowercase “true” or “false”. If [-OutputPayload](#) is used, the settings here are ignored in favor of the fields specified on the command line.

```

<OutputPayload>
  <Title>true</Title>
  <Version>true</Version>
  <ReleaseDate>true</ReleaseDate>
  <Classification>true</Classification>
  <HostName>true</HostName>
  <Site>true</Site>
  <Instance>true</Instance>
  <IP>true</IP>
  <MAC>true</MAC>
  <FQDN>true</FQDN>
  <Role>true</Role>
  <GroupID>true</GroupID>
  <GroupTitle>true</GroupTitle>
  <RuleID>true</RuleID>
  <STIGID>true</STIGID>
  <Severity>true</Severity>
  <SeverityOverride>true</SeverityOverride>
  <Justification>true</Justification>

```

\* Image truncated for display purposes \*

## STIGManager Section

The <STIGManager> section within **Preferences.xml** must be configured to your environment in order for Evaluate-STIG to send scan results to a STIG Manager instance:

```
<STIGManager>
  <SMImport_API_BASE></SMImport_API_BASE>
  <SMImport_AUTHORITY></SMImport_AUTHORITY>
  <SMImport_COLLECTION Name="">
    <SMImport_CLIENT_ID></SMImport_CLIENT_ID>
    <SMImport_CLIENT_CERT></SMImport_CLIENT_CERT>
    <SMImport_CLIENT_CERT_KEY></SMImport_CLIENT_CERT_KEY>
    <SMImport_COLLECTION_ID></SMImport_COLLECTION_ID>
  </SMImport_COLLECTION>
</STIGManager>
```

<SMImport_API_BASE>	<b>Required.</b> Base URL of the STIG Manager API service. The default value is your STIGManager instance's FQDN with "/api" appended. This is defined within your STIG Manager's settings via "STIGMAN_CLIENT_API_BASE".
<SMImport_AUTHORITY>	<b>Required.</b> Base URL of the OIDC authentication service that issues OAuth2 tokens for the API. This should match the value set for "STIGMAN_CLIENT_OIDC_PROVIDER" within STIG Manager's configuration.
<SMImport_COLLECTION Name>	<b>Required.</b> Name for the SMImport collection settings section that is called from "-SMCollection". Recommend this match your collection name within STIG Manager. Multiple SMImport_COLLECTION sections may be configured.
<SMImport_CLIENT_ID>	<b>Required.</b> OIDC client ID to authenticate. This should be created within your STIG Manager's backend OIDC Provider. The default provider used by STIG Manager is Keycloak, though your configuration may vary.
<SMImport_CLIENT_CERT>	The PEM encoded client certificate. An unencrypted private key may be included within this file so that you do not have to pass "-SMPassphrase", though this configuration is not recommended. File must exist in Certificates directory.
<SMImport_CLIENT_CERT_KEY>	Filename of PEM encoded encrypted private key. Required if SM_IMPORT_CLIENT_CERT does not contain a plaintext private key. File must exist in Certificates directory.
<SMImport_COLLECTION_ID>	<b>Required.</b> The collection ID of your desired collection. A user with Manage permissions on the collection can find this. After selecting to manage the collection, reference the "ID" value in the Collection Properties window.

⇒ *Note: Defining SMImport\_CLIENT\_CERT\_KEY will require the use of the "-SMPassphrase" parameter to decrypt the private key.*

## Splunk Section

The <Splunk> section within **Preferences.xml** must be configured to your environment in order for Evaluate-STIG to send scan results to a Splunk instance:

```
<Splunk>
  <Splunk_URI></Splunk_URI>
  <Splunk_HECName Name="">
    <Splunk_token></Splunk_token>
    <Splunk_index></Splunk_index>
    <Splunk_source></Splunk_source>
    <Splunk_sourcetype></Splunk_sourcetype>
  </Splunk_HECName>
</Splunk>
```

<Splunk_URI>	<b>Required.</b> Base URL of the Splunk instance. The default value is your Splunk instances' FQDN, port 8088, with "/services/collector/event" appended.
<Splunk_HECName Name>	<b>Required.</b> Name for the HTTP Event Collector token. Multiple Splunk_HECName sections may be configured.
<Splunk_token>	<b>Required.</b> HEC Token value. This should be created within your Splunk instance.
<Splunk_index>	<b>Optional.</b> The name of the index by which the event data is to be indexed. The index you specify here must be within the list of allowed indexes if the token has the indexes parameter set.
<Splunk_source>	<b>Optional.</b> The source value to assign to the event data.
<Splunk_sourcetype>	<b>Optional.</b> The source type value to assign to the event data.

## ManageAnswerFiles Section

<ManageAnswerFiles> section is for configuring default settings in the Options portion of the [Evaluate-STIG GUI](#) Answer Files Tools tab

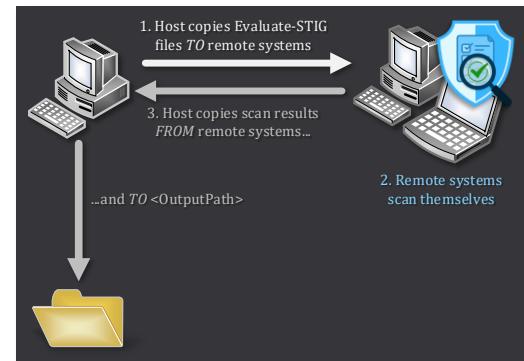
```
<ManageAnswerFiles>
  <EvaluateSTIG_Results></EvaluateSTIG_Results>
  <AnswerFileDirectory></AnswerFileDirectory>
  <DefaultAFKey>DEFAULT</DefaultAFKey>
  <StatusFormat>EvalSTIG</StatusFormat>
  <BackupOnSave>DEFAULT</BackupOnSave>
  <PowerShell_IDE>C:\Windows\system32\WindowsPowerShell\v1.0\PowerShell_ISE.exe</PowerShell_IDE>
</ManageAnswerFiles>
```

<EvaluateSTIG_Results>	Path to checklist files.
<AnswerFileDirectory>	Path to answer files.
<DefaultAFKey>	Answer file key name to use when adding vulnerability ID to answer file.
<StatusFormat>	Format use for Status entries within the answer file.
<BackupOnSave>	To create a backup of the answer file when saving changes. Must be "true" or "false".
<PowerShell_IDE>	Path to preferred PowerShell editor.

## 3.6 Remote Scanning

Evaluate-STIG can scan remote systems provided specific requirements are met. For managed environments, remote scanning is not a replacement for, nor recommended over pushing Evaluate-STIG configuration management tools as those are better suited for deploying to entire networks of computers.

Use the `-ComputerName` parameter to initiate a remote scan. Evaluate-STIG content and answer files are compressed on the Host machine, copied to the Remote(s), and extracted to a temporary folder. Then, the remote machine scans itself and the results are returned to the Host machine as either a PowerShell object or the output file type(s) if `-Output` is used. The Host is responsible for sending the results to the `[OutputPath]`.



⇒ **Note:** `-OutputPath` is from the Host's perspective. If not specified, `[OutputPath]` will be on the Host – not the remote:

- Windows: "C:\Users\Public\Documents\STIG\_Compliance"
- Linux: "/opt/STIG\_Compliance"

The following table outlines supported remote scan scenarios:

Host Operating System	Remote Operating System	Remote Scan Supported
Windows	Windows	✓
Windows	Linux	✓*
Linux	Linux	✓+
Linux	Windows	✗

\* Windows to Linux supported when PowerShell 7.3.x or greater is installed on both the host and remote.

+ Linux to Linux supported using optional Ansible script, which is available in our Auxiliary Files at the download locations.

### Requirements

All remote scans are performed within an established [PowerShell session](#) between the host and remote. Therefore, requirements for allowing PowerShell session connections must be met before Evaluate-STIG can execute a remote scan. These requirements are out-of-scope for this guide but below are official Microsoft articles for ensuring that sessions can be created:

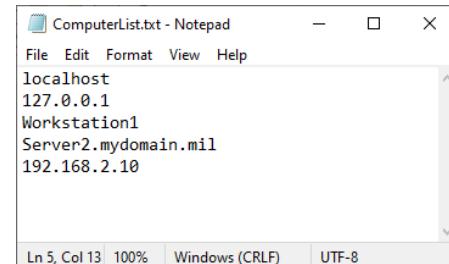
- **Windows to Windows Connection:**
  - <https://learn.microsoft.com/en-us/powershell/scripting/learn/remoting/wsman-remoting-in-powershell>
  - <https://learn.microsoft.com/en-us/powershell/scripting/learn/remoting/winrmsecurity>
  - **Additional Configuration for Non-Domain (Workgroup) Systems:**
    - <https://woshub.com/using-psremoting-winrm-non-domain-workgroup/>
- **Windows to Linux Connection:**
  - <https://learn.microsoft.com/en-us/powershell/scripting/learn/remoting/ssh-remoting-in-powershell>

For Windows to Windows scans, the Evaluate-STIG [prerequisites](#) apply to both the host and the remote. For Windows to Linux, PowerShell 7.3.x or greater must be installed on both the host and remote. Additionally, Linux [prerequisites](#) must be in place on the Linux remotes.

⇒ **Note:** Remote systems must be resolvable in DNS or the HOSTS file.

## Parameter Notes

- [-ComputerName](#) accepts names, IP addresses, text files, PowerShell array objects or any combination. Multiple may be specified using comma separation. May also use "localhost" to include the host machine as part of the scan. If a text file, the content must contain one computer per line.
- [-AltCredential](#) will prompt for an alternate credential to use when establishing connection to remote Windows systems. Evaluate-STIG will first attempt to connect using the alternate credential. If it fails, connection will be attempted using the credential that launched PowerShell on the host computer before giving up.
- [-ThrottleLimit](#) will set the maximum number of concurrent connections allowed. Default is 10. If requested scan contains more computers than [ThrottleLimit], Evaluate-STIG will start the maximum scans, wait for one to finish, then start the next until all are completed.



## 3.7 Cisco Scanning

Evaluate-STIG supports [Cisco STIGs](#) by parsing captured "show tech-support" output saved to a file. It does not make any connection to devices. To initiate a Cisco scan, use the [-CiscoConfig](#) parameter.

## Parameter Notes

- [-CiscoConfig](#) must be the path to a file or a folder. If a folder, Evaluate-STIG will recursively search the folder for valid configuration files and add to scan. Multiple may be specified using comma separation. **Important: Only files that contain the full "show tech-support" output from a supported device will be accepted by Evaluate-STIG. Using output from "show running-config" will not suffice.**
- [-SelectDeviceType](#) will instruct Evaluate-STIG if the device is acting as a router, switch, or both for the following platforms:
  - Cisco IOS
  - Cisco IOS-XE Catalyst 9k series
  - Cisco IOS-XE ISR
- [-ThrottleLimit](#) will set the maximum number of concurrent files to parse. Default is 10. If requested scan contains more files than [ThrottleLimit], Evaluate-STIG will start the maximum scans, wait for one to finish, then start the next until all are completed.

⇒ **Note:** Refer to [Appendix D](#) for a list of Cisco STIGs that Evaluate-STIG supports.

## 3.8 STIG Manager

Evaluate-STIG provides the ability to send scan results directly to a functioning [STIG Manager](#) instance. "STIG Manager is an Open-Source API and Web client for managing the assessment of Information Systems for compliance with security checklists published by the United States (U.S.) Defense Information Systems Agency (DISA). STIG Manager supports DISA checklists distributed as either a Security Technical Implementation Guide (STIG) or a Security Requirements Guide (SRG) in the XCCDF format."

When Evaluate-STIG is run with [-Output STIGManager](#), the local machine will send the scan results to a STIG Manager instance and collection defined in [Preferences.xml](#) via STIG Manager's API. For remote scans, the remote scan results will be transferred back to the host machine and the host will send to STIG Manager.



### Prerequisites

- A functioning STIG Manager instance and service account for connecting to STIG Manager. Refer to STIG Manager's [documentation](#).
- Configured [<SMImport\\_API\\_BASE>](#) and [<SMImport\\_AUTHORITY>](#) within [Preferences.xml](#).
- At least one configured [<SMImport\\_COLLECTION>](#) section.

### Parameter Notes

- [-Output STIGManager](#) instructs Evaluate-STIG to send results to a STIG Manager instance.
- [-SMCollection](#) is required to direct Evaluate-STIG which [<SMImport\\_COLLECTION>](#) section to use within [Preferences.xml](#).
- [-SMPassphrase](#) is required if the [<SMImport\\_CLIENT\\_CERT>](#) is used with a passphrase OR [<SMImport\\_CLIENT\\_ID>](#) is used with Client\_Secret (SMPassphrase)

### Usage

Consider the following example STIG Manager configuration in [Preferences.xml](#):

```
<STIGManager>
  <SMImport_API_BASE>https://my.stig.manager.mil/api/</SMImport_API_BASE>
  <SMImport_AUTHORITY>https://my.stig.manager.mil/kc/realms/stigman/</SMImport_AUTHORITY>
  <SMImport_COLLECTION Name="MyCollection">
    <SMImport_CLIENT_ID>evaluate-stig/</SMImport_CLIENT_ID>
    <SMImport_CLIENT_CERT>evaluate-stig-crt.pem/</SMImport_CLIENT_CERT>
    <SMImport_CLIENT_CERT_KEY>evaluate-stig-key.pem</SMImport_CLIENT_CERT_KEY>
    <SMImport_COLLECTION_ID>1</SMImport_COLLECTION_ID>
  </SMImport_COLLECTION>
</STIGManager>
```

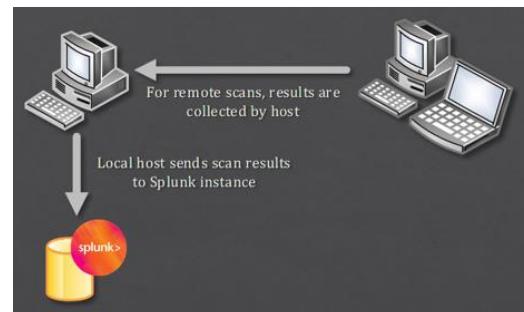
The command line below will send the results to collection ID '1' within the STIG Manager instance. Since an encrypted key is configured in [<SMImport\\_CLIENT\\_CERT\\_KEY>](#), the [-SMPassphrase](#) will be converted to a SecureString and used to decrypt the 'evaluate-stig-key.pem' file required to authenticate to the STIG Manager instance.

```
. \Evaluate-STIG.ps1 -Output STIGManager -SMCollection MyCollection -SMPassphrase <.pem passphrase>
```

## 3.9 Splunk

Evaluate-STIG provides the ability to send scan results directly to a functioning [Splunk](#) instance. “Splunk Enterprise is a software product that enables you to search, analyze, and visualize the data gathered from the components of your IT infrastructure or business. Splunk Enterprise takes in data from websites, applications, sensors, devices, and so on. After you define the data source, Splunk Enterprise indexes the data stream and parses it into a series of individual events that you can view and search.”

When Evaluate-STIG is run with [-Output Splunk](#), the local machine will send the scan results to a Splunk HTTP Event Collector (HEC) defined in [Preferences.xml](#). For remote scans, the remote scan results will be transferred back to the host machine and the host will send to Splunk.



### Prerequisites

- A functioning Splunk HTTP Event Collector and token for authenticating to your Splunk instance. Refer to Splunk’s documentation.
- Configured [<Splunk\\_URI>](#) within [Preferences.xml](#).
- At least one configured [<Splunk\\_HECName>](#) section.

### Parameter Notes

- [-Output Splunk](#) instructs Evaluate-STIG to send results to a Splunk HTTP Event Collector.
- [-SplunkHECName](#) is required to direct Evaluate-STIG which [<Splunk\\_HECName>](#) section to use within [Preferences.xml](#).

### Usage

Consider the following example Splunk configuration in [Preferences.xml](#):

```

<Splunk>
  <Splunk_URI>https://my.splunk.mil:8088/services/collector/event</Splunk_URI>
  <Splunk_HECName Name="MyHECName">
    <Splunk_token>1cea9f66-a7c9-4fcda20f-0b2c17d5d426</Splunk_token>
    <Splunk_index>es_events</Splunk_index>
    <Splunk_source>evaluate-stig</Splunk_source>
    <Splunk_sourcetype>weekly_scan</Splunk_sourcetype>
  </Splunk_HECName>
</Splunk>
  
```

This HTTP Event Collector (HEC) name would be used when running:

```
.\Evaluate-STIG.ps1 -Output Splunk -SplunkHECName MyHECName
```

## 3.10 Versioning, Release Cadence, and Updating

Evaluate-STIG is versioned as **1.<YYMM>. <Release>** (e.g. 1.2507.3). <YYMM> is the year and month number of the STIG quarter per DISA's release schedule and files in the **StigContent** folder will include that quarter's STIGs. DISA's posted STIG release schedule (<https://www.cyber.mil/stigs/quarterly-release-schedule-and-summary>):

Quarter	Release Month	Evaluate-STIG Base Version
Q1 Release	End of January	1.YY <u>01</u> .0
Q2 Release	End of April	1.YY <u>04</u> .0
Q3 Release	End of July	1.YY <u>07</u> .0
Q4 Release	End of October	1.YY <u>10</u> .0

For supported STIGs, Evaluate-STIG is updated quarterly approximately 2 weeks after the STIG Library Compilation .zip is posted to cyber.mil (<https://www.cyber.mil/stigs/compilations>). Additional updates may also be posted as needed to address bug fixes or other changes at which point the <Release> will be incremented.

There are two options for updating Evaluate-STIG:

1. If connected to the DODIN, use the [-Update](#) feature. This will pull down the current Evaluate-STIG content while preserving your Preferences.xml settings and any answer files located in the .\Evaluate-STIG\AnswerFiles path.
2. Download the latest version from IntelShare:
  - **NIPR:** <https://intelshare.intelink.gov/sites/NAVSEA-RMF>
  - **SIPR:** <https://intelshare.intelink.sgov.gov/sites/NAVSEA-RMF>

⇒ **Note:** The above are the only supported mechanisms for updating Evaluate-STIG. Adding a newer STIG's .xccdf content to the root of .\Evaluate-STIG\StigContent is not supported as the code has not been updated for any changes to that STIG and could affect accuracy of the results. STIG content that fails an internal hash check will result in an error and that STIG ignored. However, you may add the newer .xccdf to .\Evaluate-STIG\StigContent\Manual at which point it will be considered an [Unsupported STIG](#).

## 4 Evaluate-STIG GUI

Evaluate-STIG.ps1 included with Evaluate-STIG is a graphical interface to build and run scans. Run it from a PowerShell prompt:

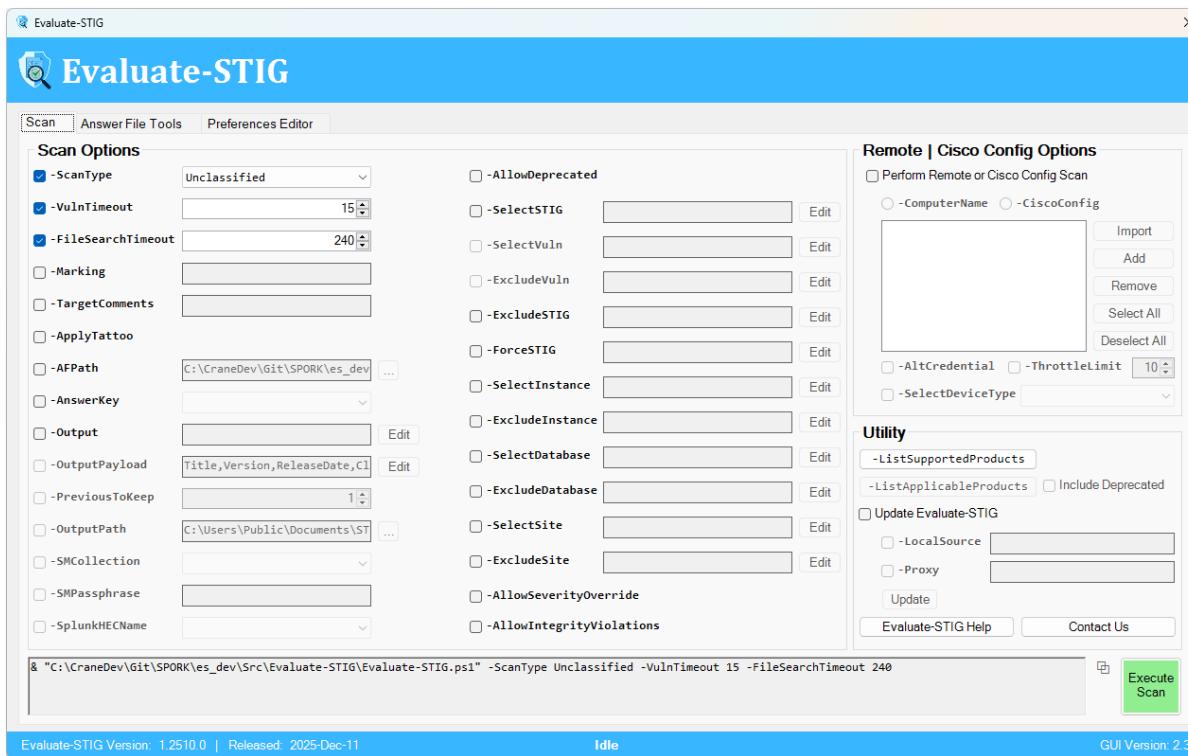
```
PS C:\Evaluate-STIG> .\Evaluate-STIG_GUI.ps1
```

⇒ *Note: If the local system is to be part of the scan, it must be run from an elevated PowerShell prompt on Windows.*

### Requirements

- Windows operating system
- 1920 x 1080 screen resolution
- PowerShell 5.1 or greater

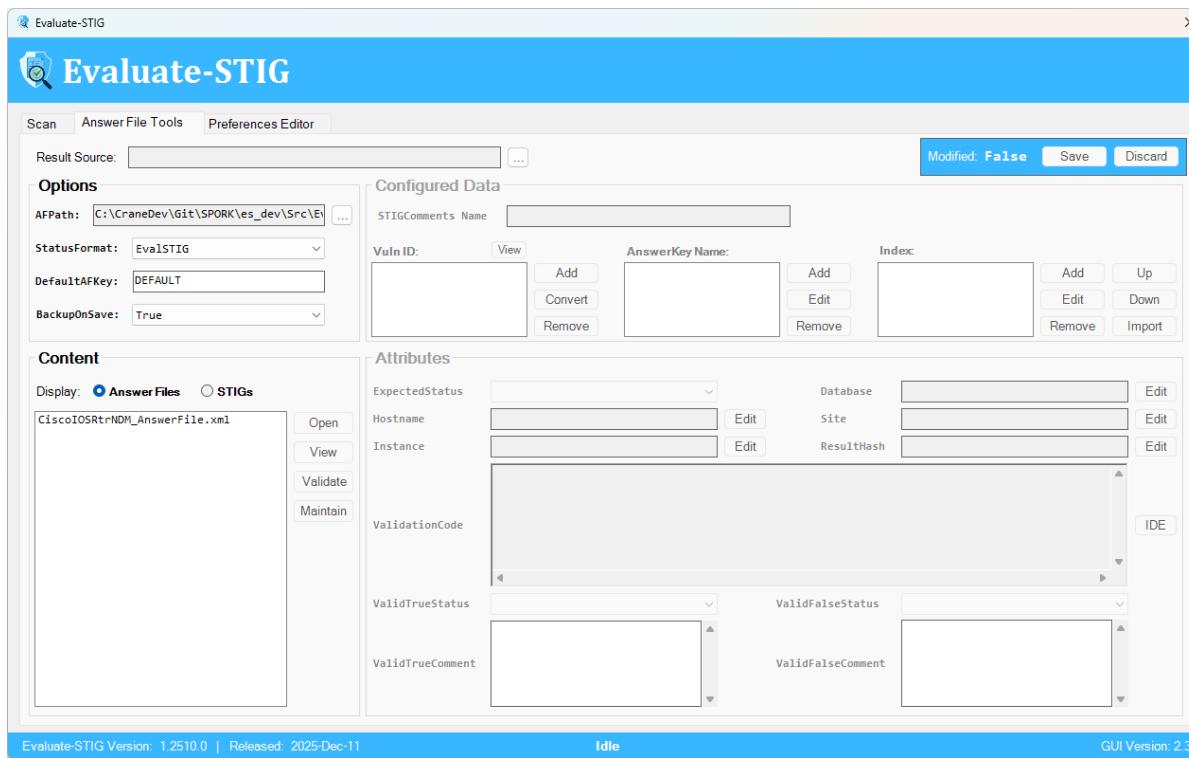
#### 4.1 Scan Tab



The Scan tab is for performing a local or remote scan as well as running utility parameters. For scanning, the command line that will be executed is displayed at the bottom of the form. To enable a parameter, select the checkbox and then configure the parameter's setting if needed.

⇒ *Note: If a parameter is greyed out (disabled), this means that the parameter's prerequisite has not been satisfied.*

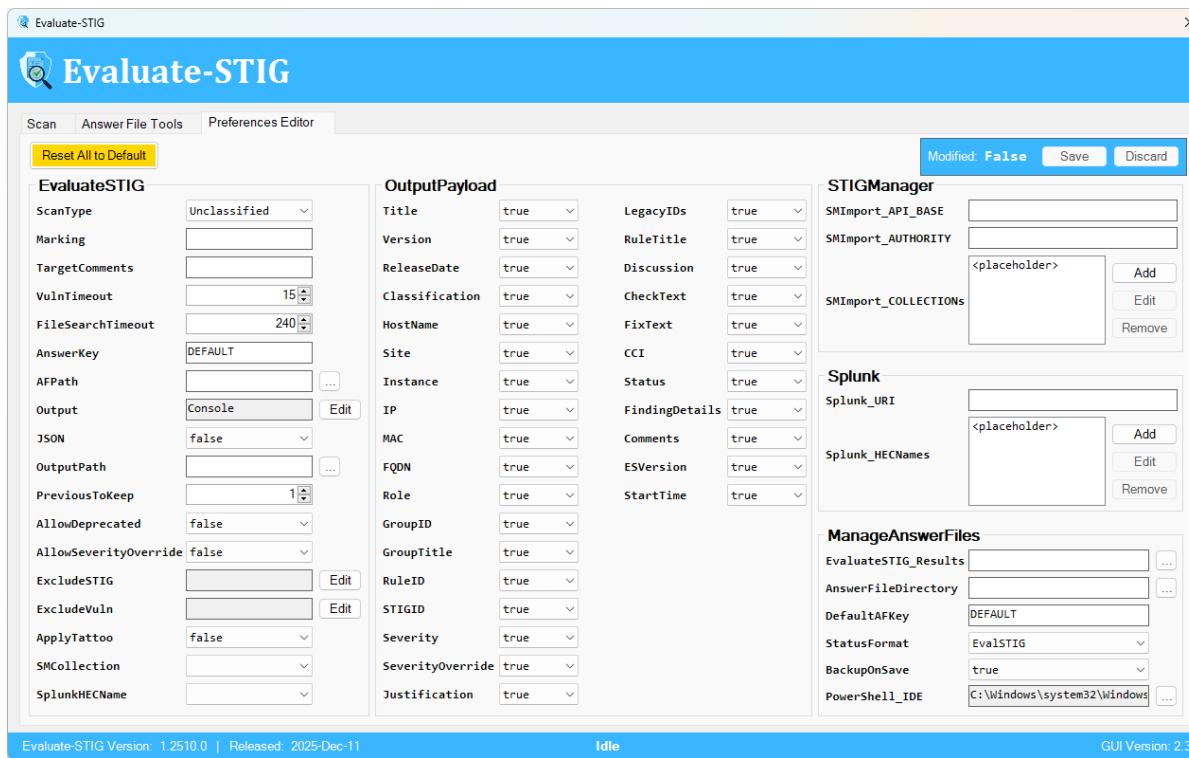
## 4.2 Answer File Tools Tab



Use the Answer File Tools tab to create, edit, and maintain your answer files. For routine maintenance or migration of legacy answer files, use the **Maintain** button.

⇒ **Note:** Once a change to the answer file being edited is detected. The *Save/Discard* buttons will be enabled. Opening another answer file for editing will be disabled until the current changes are saved or discarded.

## 4.3 Preferences Editor tab



The Preferences Editor tab is used for modifying the Evaluate-STIG Preferences.xml file. Any changes will require a restart of the GUI application.

## 5 Scan Processes

At the beginning, Evaluate-STIG will build a list of STIGs to scan by checking the applicability of each against the computer's configuration. Using [-SelectSTIG](#) does not guarantee applicability and Evaluate-STIG will still only scan for selected STIGs if they are required for the computer. The exception is [-ForceSTIG](#) in which Evaluate-STIG will attempt to scan the STIG regardless. Failed and/or inaccurate scans are possible when forcing STIGs so these results are not guaranteed and the user accepts the risk.

Evaluate-STIG utilizes a temporary folder to store data required for the scan. After scan completion, these files will be removed leaving just the Evaluate-STIG.log for reference or troubleshooting purposes. Location of the temporary folder:

- **Windows:** \$env:windir\Temp\Evaluate-STIG
- **Linux:** /tmp/Evaluate-STIG

Additionally, if a STIG requires the scan of Windows user settings, the [preferred](#) user's registry hive will be temporarily imported into the registry as a key under HKEY\_USERS\Evaluate-STIG\_UserHive. After scan completion, the key will be removed.

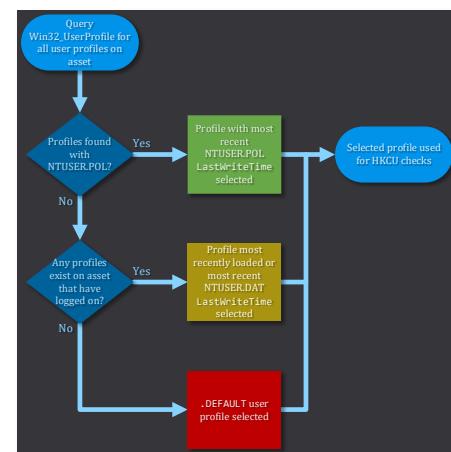
When the [-Output](#) parameter contains CKL, CKLB, CSV, CombinedCKL, CombinedCKLB, CombinedCSV, XCCDF, Summary, and/or OQE, the [-PreviousToKeep](#) parameter will dictate how many previous scan outputs to retain. Default is "1" (**retain one set of previous scan results**). Retained scan results will be moved into [OutputPath]\Previous\[Results Date-Time] folder.

### 5.1 Preferred User Selection Process

Nearly all user-based STIG settings instruct the reviewer to check the HKEY\_CURRENT\_USER (HKCU) registry hive on Windows systems. The STIG's Fix Text for user-based settings normally are group policy (GPO) configurations. Scanning all user profiles on a system can result in mass false positives due to how Windows applies user policy settings. It is highly recommended not to include Evaluate-STIG as part of your imaging process or run it on systems where no users have logged on.

To stay true to the STIG and simulate an administrator / auditor in-person session, Evaluate-STIG will logically select a "preferred user profile" for scanning user-based checks in the following order:

1. Profile that most recently applied GPO. This is the ideal scenario.
2. If no profiles have processed GPO, then the user that most recently logged on. Risk of mass false positives exists.
3. If no user has ever logged on, then the ".DEFAULT" user profile is used. This will most likely result in mass false positives.

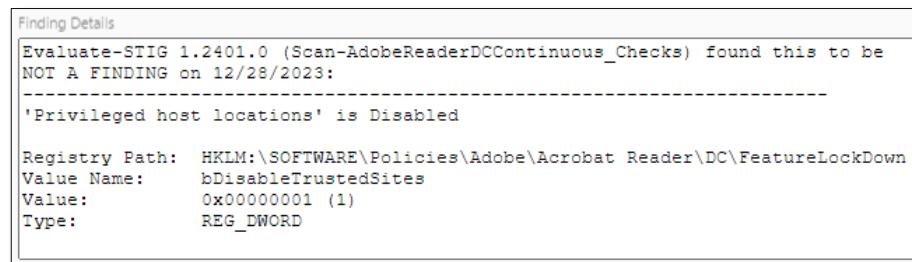


⇒ **Note:** For checks where the STIG states that each user on the system must be examined, Evaluate-STIG will examine every profile in these rare instances.

## 5.2 CKL | CKLB Documentation

Evaluate-STIG has built-in support for formatting scan results into STIG Viewer 2.17 (.CKL) and STIG Viewer 3.x (.CKLB) checklist files. Use the [-Output](#) parameter to specify which output(s) to send the results to.

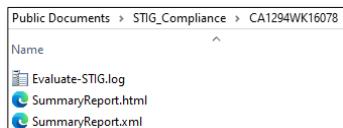
Evaluate-STIG will set the **Status** and document the computer's configuration for the check into **Finding Details**. If an answer file is used and applied, the text from the answer file will be placed into the **Comments** field of the checklist.



⇒ **Note:** Evaluate-STIG reserves the *Finding Details* field for documenting the actual configuration as found. It is not possible for an answer file to update the *Finding Details* field. The only exception to this is for checks that Evaluate-STIG provided no data to *Finding Details*, at which point, the answer file Comment text will be duplicated to *Finding Details*. See [Answer File Flowchart](#) for more.

## 5.3 Summary Reports

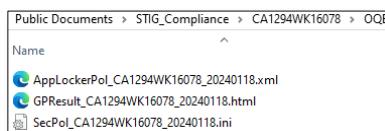
When specifying **Summary** in [-Output](#), Evaluate-STIG will produce a summary of the scan in both .XML and .HTML formats.



- **SummaryReport.xml** – Useful for feeding scan summary data to external tools (e.g., SPLUNK)
- **SummaryReport.html** – Human readable report

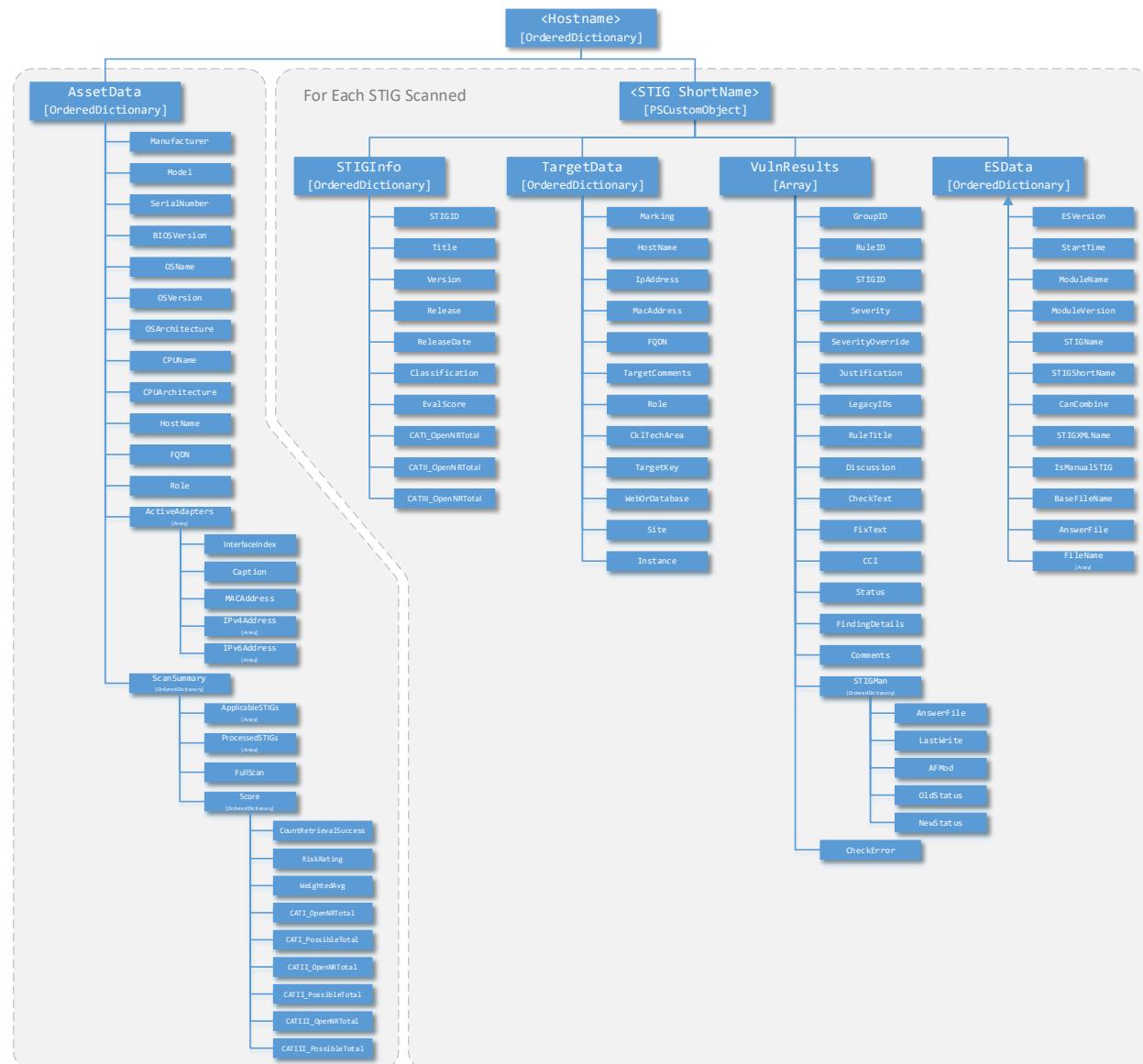
## 5.4 Objective Quality Evidence (OQE)

Scanning Windows systems and specifying **OQE** in [-Output](#), Evaluate-STIG will generate additional artifacts as part of the scan and place these into [OutputPath]\OQE. These will include **AppLocker**, **Group Policy**, and **Local Security Policy** outputs.



## 6 Scan Results

Evaluate-STIG stores the scan result as a PowerShell object and will return this object to the console by default. Directing the console output to a variable (e.g. `$obj = .\Evaluate-STIG.ps1`) allows for flexibility in filtering, sorting, and formatting the output to meet the user's need. **When using -Output, the results will only be sent to the console if "Console" is specified in the parameter.** Below is the structure of the PowerShell object:

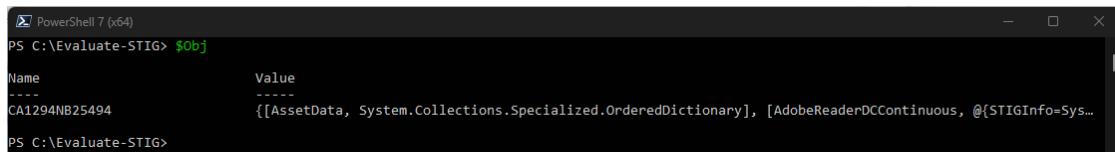


## 6.1 Walking the Object

The following are examples of walking the object within the console:

Parsing the top level (if remote or Cisco scan with multiple devices, there will be multiple entries here – one for each hostname):

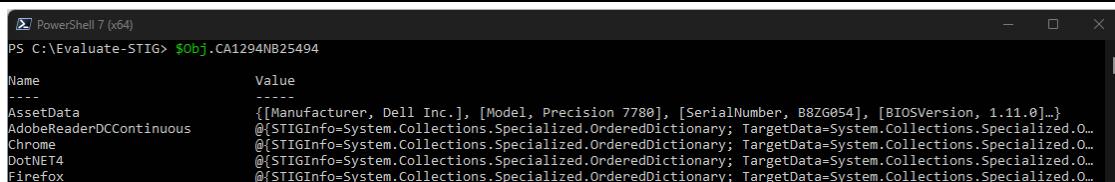
```
PS C:\Evaluate-STIG> $Obj = .\Evaluate-STIG.ps1
```



```
PS C:\Evaluate-STIG> $Obj
Name          Value
----          -----
CA1294NB25494 {[AssetData, System.Collections.Specialized.OrderedDictionary], [AdobeReaderDCContinuous, @{$STIGInfo=Sys...]
```

Examining the <Hostname> object (all STIGs scanned for the host will be present):

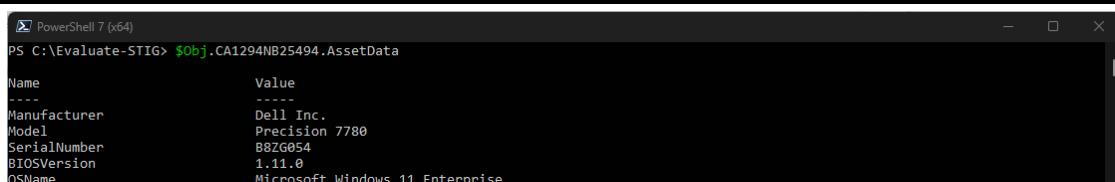
```
PS C:\Evaluate-STIG> $Obj.<Hostname>
```



```
PS C:\Evaluate-STIG> $Obj.CA1294NB25494
Name          Value
----          -----
AssetData      {[Manufacturer, Dell Inc.], [Model, Precision 7780], [SerialNumber, B8ZG054], [BIOSVersion, 1.11.0]...}
AdobeReaderDCContinuous @{$STIGInfo=System.Collections.Specialized.OrderedDictionary; TargetData=System.Collections.Specialized.O...
Chrome        @{$STIGInfo=System.Collections.Specialized.OrderedDictionary; TargetData=System.Collections.Specialized.O...
DotNET4       @{$STIGInfo=System.Collections.Specialized.OrderedDictionary; TargetData=System.Collections.Specialized.O...
Firefox       @{$STIGInfo=System.Collections.Specialized.OrderedDictionary; TargetData=System.Collections.Specialized.O...
```

Examining the **AssetData** object:

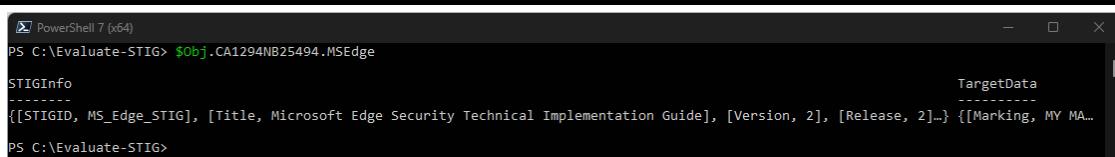
```
PS C:\Evaluate-STIG> $Obj.<Hostname>.AssetData
```



```
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.AssetData
Name          Value
----          -----
Manufacturer  Dell Inc.
Model        Precision 7780
SerialNumber B8ZG054
BIOSVersion   1.11.0
OSName       Microsoft Windows 11 Enterprise
```

Examining the <STIG ShortName> object:

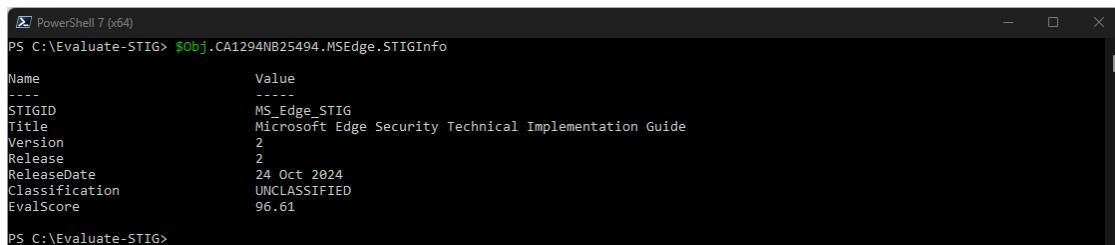
```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>
```



```
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.MSEdge
STIGInfo
-----
{{[STIGID, MS_Edge_STIG], [Title, Microsoft Edge Security Technical Implementation Guide], [Version, 2], [Release, 2]}...} {[Marking, MY MA...}
TargetData
-----
```

Examining the **STIGInfo** object (data from the STIG's .xccdf):

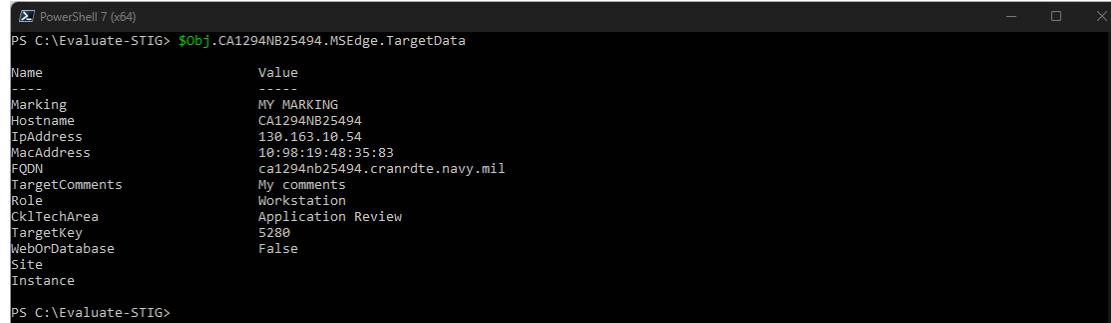
```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>.STIGInfo
```



```
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.MSEdge.STIGInfo
Name          Value
----          -----
STIGID        MS_Edge_STIG
Title         Microsoft Edge Security Technical Implementation Guide
Version       2
Release       2
ReleaseDate   24 Oct 2024
Classification UNCLASSIFIED
EvalScore     96.61
```

### Examining the **TargetData** object:

```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>.TargetData
```

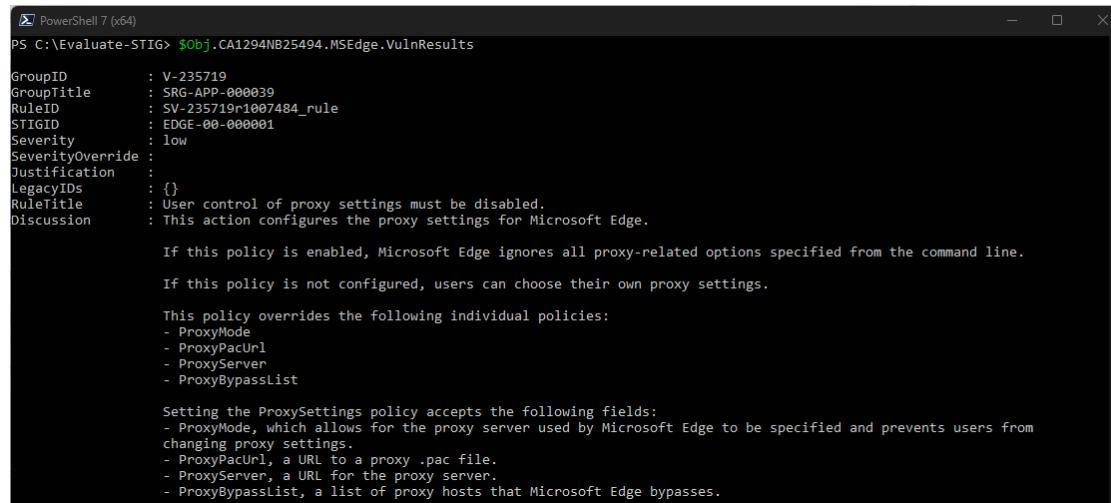


```
PowerShell 7 (x64)
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.MSEdge.TargetData

Name          Value
----          -----
Marking       MY MARKING
Hostname      CA1294NB25494
IpAddress    130.163.10.54
MacAddress   10:98:19:48:35:83
FQDN         ca1294nb25494.cranrdte.navy.mil
TargetComments My comments
Role          Workstation
CkITechArea   Application Review
TargetKey     5280
WebOrDatabase False
Site
Instance
```

### Examining the **VulnResults** object:

```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>.VulnResults
```



```
PowerShell 7 (x64)
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.MSEdge.VulnResults

GroupID      : V-235719
GroupTitle   : SRG-APP-000039
RuleID       : SV-235719r1007484_rule
STIGID       : EDGE-00-000001
Severity     : low
SeverityOverride :
Justification :
LegacyIDs    : {}
RuleTitle    : User control of proxy settings must be disabled.
Discussion   : This action configures the proxy settings for Microsoft Edge.

If this policy is enabled, Microsoft Edge ignores all proxy-related options specified from the command line.

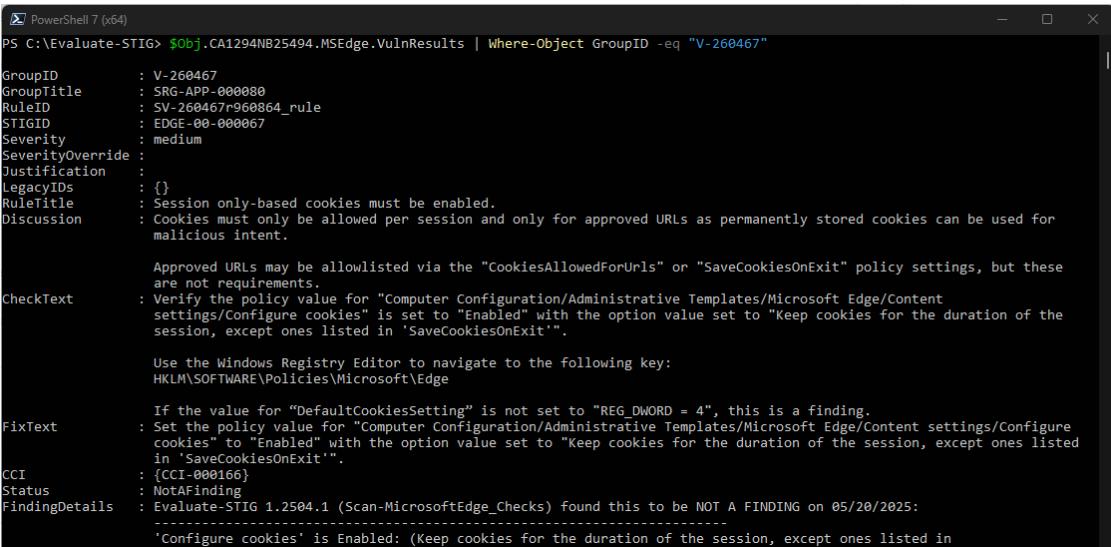
If this policy is not configured, users can choose their own proxy settings.

This policy overrides the following individual policies:
- ProxyMode
- ProxyPacUrl
- ProxyServer
- ProxyBypassList

Setting the ProxySettings policy accepts the following fields:
- ProxyMode, which allows for the proxy server used by Microsoft Edge to be specified and prevents users from changing proxy settings.
- ProxyPacUrl, a URL to a proxy .pac file.
- ProxyServer, a URL for the proxy server.
- ProxyBypassList, a list of proxy hosts that Microsoft Edge bypasses.
```

### Examining a specific check in the **VulnResults** object:

```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>.VulnResults | Where-Object GroupID -eq "<VulnID>"
```



```
PowerShell 7 (x64)
PS C:\Evaluate-STIG> $Obj.CA1294NB25494.MSEdge.VulnResults | Where-Object GroupID -eq "V-260467"

GroupID      : V-260467
GroupTitle   : SRG-APP-000080
RuleID       : SV-260467r960864_rule
STIGID       : EDGE-00-000067
Severity     : medium
SeverityOverride :
Justification :
LegacyIDs    : {}
RuleTitle    : Session only-based cookies must be enabled.
Discussion   : Cookies must only be allowed per session and only for approved URLs as permanently stored cookies can be used for malicious intent.

Approved URLs may be allowed via the "CookiesAllowedForUrls" or "SaveCookiesOnExit" policy settings, but these are not requirements.
CheckText    : Verify the policy value for "Computer Configuration/Administrative Templates/Microsoft Edge/Content settings/Configure cookies" is set to "Enabled" with the option value set to "Keep cookies for the duration of the session, except ones listed in 'SaveCookiesOnExit'".

Use the Windows Registry Editor to navigate to the following key:
HKLM\SOFTWARE\Policies\Microsoft\Edge

FixText      : If the value for "DefaultCookiesSetting" is not set to "REG_DWORD = 4", this is a finding.
               Set the policy value for "Computer Configuration/Administrative Templates/Microsoft Edge/Content settings/Configure cookies" to "Enabled" with the option value set to "Keep cookies for the duration of the session, except ones listed in 'SaveCookiesOnExit'".
CCI          : {CCI-000166}
Status        : NotFinding
FindingDetails : Evaluate-STIG 1.2504.1 (Scan-MicrosoftEdge_Checks) found this to be NOT A FINDING on 05/20/2025:
               -----
               'Configure cookies' is Enabled: (Keep cookies for the duration of the session, except ones listed in
```

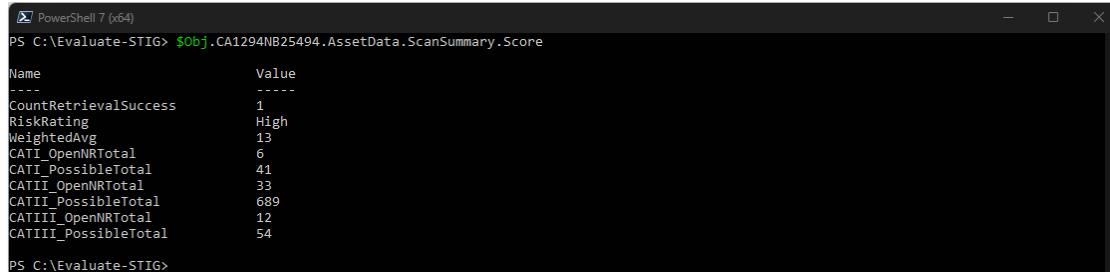
## 6.2 Scoring

Evaluate-STIG automatically calculates scores based on the results of applicable STIGs.

### CORA Grading

All STIGs Evaluate-STIG deems as applicable to the asset are considered in these calculations. STIGs that may apply multiple times to an asset (e.g. multiple IIS web sites) will have CAT counts multiplied appropriately.  
**Deprecated STIGs are not considered applicable.**

```
PS C:\Evaluate-STIG> $Obj.<Hostname>.AssetData.ScanSummary.Score
```



Name	Value
CountRetrievalSuccess	1
RiskRating	High
WeightedAvg	13
CATI_OpenNRTotal	6
CATI_PossibleTotal	41
CATII_OpenNRTotal	33
CATII_PossibleTotal	689
CATIII_OpenNRTotal	12
CATIII_PossibleTotal	54

**RiskRating** is derived from the CORA Technology Areas matrix based on **WeightedAvg (Threshold)** percentage:

Technology Areas	
Concern Indicator	Threshold
Very High Risk	$\geq 20\%$
High Risk	$\geq 10\% \text{ and } < 20\%$
Moderate Risk	$> 0\% \text{ and } < 10\%$
Low Risk	0 CAT Is, $< 5\%$ II & III
Very Low Risk	0.0%

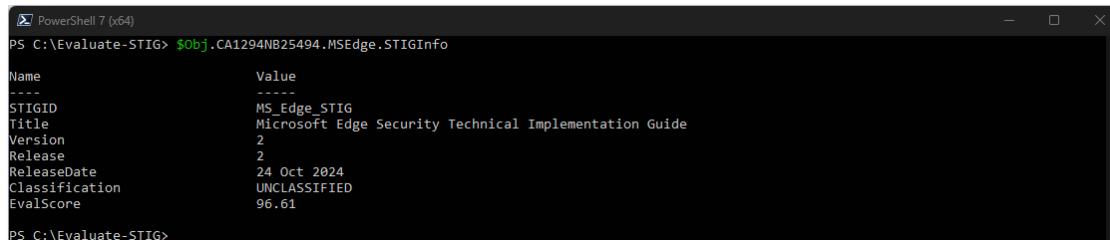
**WeightedAvg** percentage is calculated from the CORA Scoring Methodology (note that *Not Reviewed* are considered *Open*):

**STIG Scan /**  $Weighted\ Average = (p_1w_1 + p_2w_2 + p_3w_3) / (w_1 + w_2 + w_3)$

**Manual STIG:**  $p_n = \text{percent open}$        $w_n = \text{weight (10/4/1)}$

### Per STIG Score

```
PS C:\Evaluate-STIG> $Obj.<Hostname>.<STIGShortName>.STIGInfo
```



Name	Value
STIGID	MS_Edge_STIG
Title	Microsoft Edge Security Technical Implementation Guide
Version	2
Release	2
ReleaseDate	24 Oct 2024
Classification	UNCLASSIFIED
Evalscore	96.61

**EvalScore** is the percentage of compliant checks (*Not A Finding* and *Not Applicable*) for that STIG.

## 6.3 Tattooing

Evaluate-STIG scans can optionally tattoo the asset with data points from the scan using the [-ApplyTattoo](#) parameter. This information can be retrieved by external processes for inventory, verification, automated decision making, etc. For Windows systems, the tattoo is placed in the registry and Linux as a file. The tattoo consists of the following data:

<b>ApplicableSTIGs</b>	List of STIG shortnames Evaluate-STIG determined as required
<b>FullScan</b>	Whether or not a full scan was conducted (all ApplicableSTIGs were processed)
<b>LastCommand</b>	Evaluate-STIG command line that was executed
<b>LastRun</b>	Date and time of last scan
<b>ProcessedSTIGs</b>	List of STIG shortnames that were included in the last scan
<b>Version</b>	Version of Evaluate-STIG used for last scan
<b>Results\&lt;STIG&gt;\CATI_OpenNRTotal</b>	Count of Open and Not Reviewed CAT I check results for STIG
<b>Results\&lt;STIG&gt;\CATII_OpenNRTotal</b>	Count of Open and Not Reviewed CAT II check results for STIG
<b>Results\&lt;STIG&gt;\CATIII_OpenNRTotal</b>	Count of Open and Not Reviewed CAT III check results for STIG
<b>Results\&lt;STIG&gt;\EvalScore</b>	Percent of completed checks (NA and NF status)
<b>Results\&lt;STIG&gt;\Release</b>	Release of the STIG
<b>Results\&lt;STIG&gt;\ReleaseDate</b>	Release date of the STIG
<b>Results\&lt;STIG&gt;\Version</b>	Version of the STIG
<b>Score\CountRetrievalSuccess</b>	Whether or not the full count of checks was retrieved for grading
<b>Score\RiskRating</b>	CORA risk rating for the asset based on Evaluate-STIG applicable STIGs
<b>Score\WeightedAvg</b>	CORA weighted average percentage based on Evaluate-STIG applicable STIGs
<b>Score\CATI_OpenNRTotal</b>	Total Open Not Reviewed CAT I checks across all applicable STIGs
<b>Score\CATI_PossibleTotal</b>	Total CAT I checks across all applicable STIGs
<b>Score\CATII_OpenNRTotal</b>	Total Open Not Reviewed CAT II checks across all applicable STIGs
<b>Score\CATII_PossibleTotal</b>	Total CAT II checks across all applicable STIGs
<b>Score\CATIII_OpenNRTotal</b>	Total Open Not Reviewed CAT III checks across all applicable STIGs
<b>Score\CATIII_PossibleTotal</b>	Total CAT III checks across all applicable STIGs

## Windows

**Location:** HKLM:\SOFTWARE\Evaluate-STIG

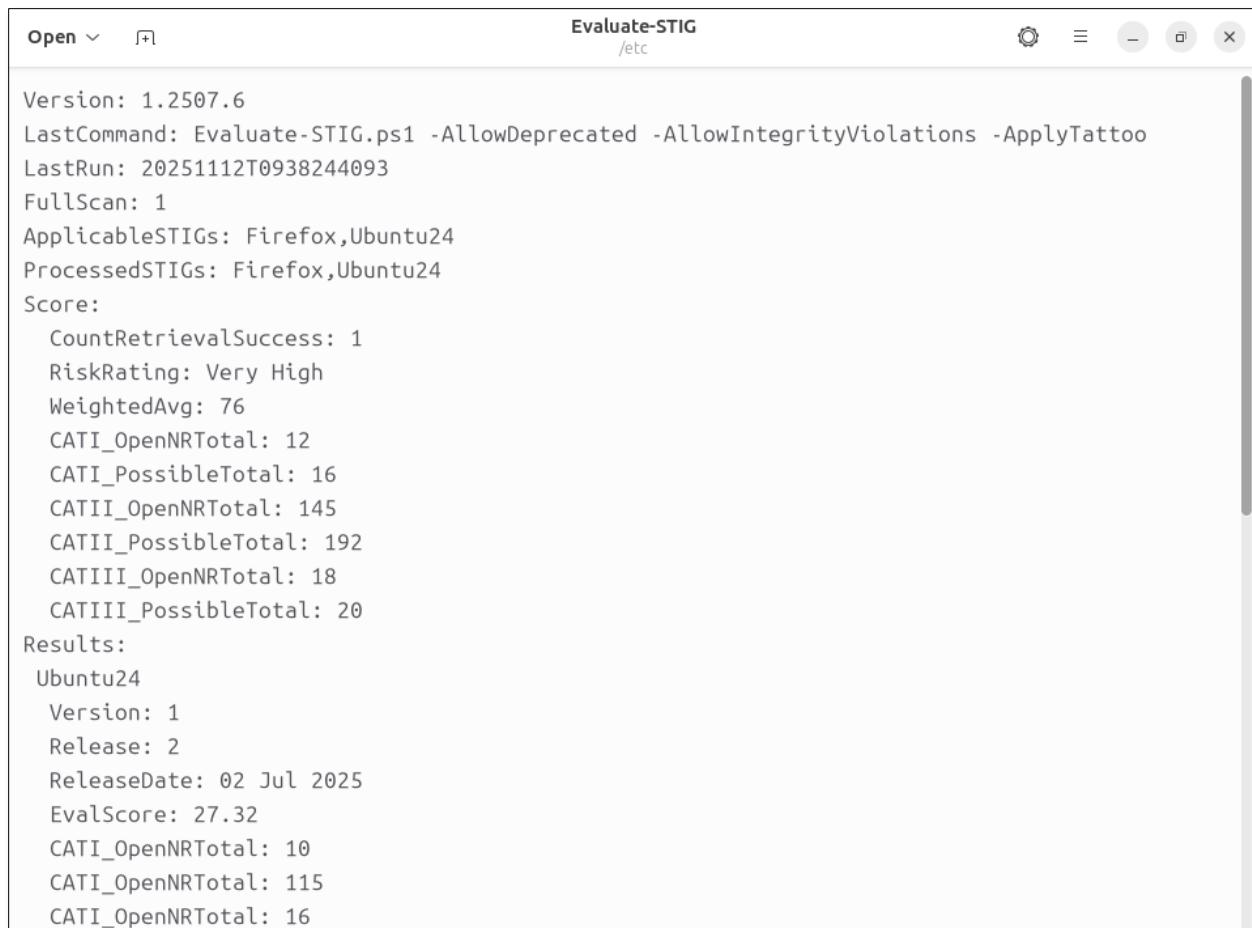
Registry Editor			
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Evaluate-STIG			
	Name	Type	Data
> dotnet	(Default)	REG_SZ	(value not set)
Evaluate-STIG	ApplicableSTIGs	REG_MULTI_SZ	AdobeReaderDCContinuous Chrome Do...
Results	FullScan	REG_DWORD	0x00000001 (1)
Results	LastCommand	REG_SZ	Evaluate-STIG.ps1 -AllowDeprecated -Ap...
Results	LastRun	REG_SZ	20251112T0945132444
Results	ProcessedSTIGs	REG_MULTI_SZ	AdobeReaderDCContinuous Chrome D...
Results	Version	REG_SZ	1.2507.6
Score			

Registry Editor			
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Evaluate-STIG\Results\MSEdge			
	Name	Type	Data
> dotnet	(Default)	REG_SZ	(value not set)
Evaluate-STIG	CATI_OpenNRTotal	REG_DWORD	0x00000001 (1)
Results	CATII_OpenNRTotal	REG_DWORD	0x00000000 (0)
Results	CATIII_OpenNRTotal	REG_DWORD	0x00000001 (1)
Results	EvalScore	REG_SZ	96.61
Results	Release	REG_DWORD	0x00000003 (3)
Results	ReleaseDate	REG_SZ	02 Jul 2025
Results	Version	REG_DWORD	0x00000002 (2)
Score			

Registry Editor			
Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Evaluate-STIG\Score			
	Name	Type	Data
> dotnet	(Default)	REG_SZ	(value not set)
Evaluate-STIG	CATI_OpenNRTotal	REG_SZ	9
Results	CATI_PossibleTotal	REG_SZ	42
Results	CATII_OpenNRTotal	REG_SZ	52
Results	CATII_PossibleTotal	REG_SZ	719
Results	CATIII_OpenNRTotal	REG_SZ	11
Results	CATIII_PossibleTotal	REG_SZ	54
Results	CountRetrievalSuccess	REG_DWORD	0x00000001 (1)
Results	RiskRating	REG_SZ	High
Results	WeightedAvg	REG_SZ	17
Score			

## Linux

**Location:** /etc/Evaluate-STIG



```
Open ▾   ⌂ Evaluate-STIG
/etc
Version: 1.2507.6
LastCommand: Evaluate-STIG.ps1 -AllowDeprecated -AllowIntegrityViolations -ApplyTattoo
LastRun: 20251112T0938244093
FullScan: 1
ApplicableSTIGs: Firefox,Ubuntu24
ProcessedSTIGs: Firefox,Ubuntu24
Score:
  CountRetrievalSuccess: 1
  RiskRating: Very High
  WeightedAvg: 76
  CATI_OpenNRTotal: 12
  CATI_PossibleTotal: 16
  CATII_OpenNRTotal: 145
  CATII_PossibleTotal: 192
  CATIII_OpenNRTotal: 18
  CATIII_PossibleTotal: 20
Results:
  Ubuntu24
    Version: 1
    Release: 2
    ReleaseDate: 02 Jul 2025
    EvalScore: 27.32
    CATI_OpenNRTotal: 10
    CATI_OpenNRTotal: 115
    CATI_OpenNRTotal: 16
```

---

## Appendix A: Frequently Asked Questions

**Q:** Can Evaluate-STIG configure an asset to be compliant with the STIG?

**A:** No. Evaluate-STIG only documents the compliance state of an asset. It is not a tool to make your machine compliant.

**Q:** Why are the Active Directory Domain and Forest STIGs not scanned on a backup domain controller?

**A:** Much of our STIG applicability check is determined by special criteria outlined in the STIG's Overview.pdf. For Active Directory STIGs, the Overview.pdf has this note – “The requirements at the Active Directory Domain level are generally settings configured on a specific domain controller or replicated across domain controllers after configuration. They can typically be reviewed once per domain”. With Evaluate-STIG, we will produce the AD STIGs on the domain controller holding the PDC Emulator role.

**Q:** Can Evaluate-STIG remotely scan non-domain (workgroup) Windows computers?

**A:** Yes, provided additional configurations are in place that allow WinRM connectivity between the hosts. These configurations are out-of-scope for this guide but this article should help - <https://woshub.com/using-psremoting-winrm-non-domain-workgroup/>. Once you can connect to workgroup computers with **Enter-PSSession**, you should then be able to scan with Evaluate-STIG using **-ComputerName** and **-AltCredential** as normal.

---

## Appendix B: Troubleshooting

### B-1 Logging

Evaluate-STIG uses several logs to assist in troubleshooting. All logs are designed to be viewed with [CMTrace](#), a log-viewing tool that comes with Microsoft Configuration Manager (ConfigMgr). If you do not have ConfigMgr, instructions on ways to obtain CMTrace.exe can be found at <https://scriptingnerd.com/2023/02/02/how-to-download-cmtrace-from-microsoft/>.

#### *Local Scan*

All local scan logging is recorded in the Evaluate-STIG.log under the following paths:

- **Windows:** %WINDIR%\Windows\Temp\Evaluate-STIG\Evaluate-STIG.log
- **Linux:** /tmp/Evaluate-STIG/Evaluate-STIG.log

After scan completion, the Evaluate-STIG.log will also be copied to [OutputPath].

## Remote Scan

Remote scan logging consists of the Evaluate-STIG\_Remote.log on the host and the [local log](#) on the remotes. The Evaluate-STIG\_Remote.log contains session information for each remote and is located:

- **Windows:** %TEMP%\Evaluate-STIG\Evaluate-STIG\_Remote.log (*this launching user's temp*)

After scan completion, the Evaluate-STIG.log for each remote will also be copied to its folder in [OutputPath].

## Cisco Scan

Cisco scan logging consists of the Evaluate-STIG\_Cisco.log and an Evaluate-STIG.log for each Cisco hostname all on the host machine:

- **Windows:**
  - %TEMP%\Evaluate-STIG\Evaluate-STIG\_Cisco.log (*this launching user's temp*)
  - %TEMP%\Evaluate-STIG\CiscoScanTemp\<Hostname>\Evaluate-STIG.log
- **Linux:**
  - /tmp/Evaluate-STIG/Evaluate-STIG\_Cisco.log
  - /tmp/Evaluate-STIG/CiscoScanTemp/<Hostname>/Evaluate-STIG.log

After scan completion, the Evaluate-STIG.log for each Cisco host will also be copied to its folder in [OutputPath].

## B-2 Common Problems

### Issue:

When trying to run Evaluate STIG, it will immediately fail and give ***Cannot index into a null array***

### Resolution:

Could be that one or more files have the blocked attribute set. Run [Test-Prerequisites.bat](#) to check if any files are blocked.

---

### Issue:

When trying to a remote scan using [-ComputerName](#), file compression fails with ***Exception calling ".ctor" with "1" argument(s): "Stream was not readable."***

### Resolution:

This is typically antivirus interfering with the compression process.

---

**Issue:**

No CKL files are produced.

**Resolution:**

Ensure you are specifying what output you want Evaluate-STIG to produce with the [-Output](#) parameter.

---

**Issue:**

Remote scan fails to connect or does not return results

**Resolution:**

Ensure WinRM is enabled that connections are not being blocked by a firewall. Test connectivity with the Enter-PSSession command. If connection with Enter-PSSession fails, this must be resolved before Evaluate-STIG can perform a remote scan.

**Resolution:**

Execution policy and/or code signing certificate issues on remote host. Verify prerequisites are met on remotes.

**Resolution:**

Check [remote logs](#) for clues.

---

**Issue:**

PostgreSQL scan hangs or fails with ***Local trust authentication method must be set in <path>\pg\_hba.conf***

**Resolution:**

A "host" or "local" configuration line must exist in pg\_hba.conf and be set to "trust" authentication. This configuration allows Evaluate-STIG to connect to the database without password prompting. After scanning the configuration line can be disabled (#) or removed.

#An example of local scanning:

```
local    all    all          trust
host    all    all  127.0.0.1/32  trust
host    all    all  ::1/128    trust
```

#To allow remote scanning:

```
host    all    all  [ip-of-evaluate-stig-system]  trust
host    all    all  192.168.0.123/32  trust
```

---

**Issue:**

Remote scan fails with ***The WinRM client sent a request to the remote WS-Management service and was notified that the request size exceeded the configured MaxEnvelopeSize quota.***

**Resolution:**

Configure the source and remote machines to the same WSMAN MaxEnvelope size (default is 500):

```
PS C:\> Set-Item WSMAN:\localhost\MaxEnvelopeSizekb -Value 500
```

[https://learn.microsoft.com/en-usopenspecs/windows\\_protocols/ms-wsman/8a6b1967-ff8e-4756-9a3b-890b4b439847](https://learn.microsoft.com/en-usopenspecs/windows_protocols/ms-wsman/8a6b1967-ff8e-4756-9a3b-890b4b439847)

---

## Appendix C: Technical Support

- **SPORK Ticket** (best way to raise an issue, report a bug):  
<https://spork.navsea.navy.mil/nswc-crane-division/evaluate-stig/-/issues>  
(You can register for a SPORK account at <https://reg.fusion.navy.mil>)
- **Microsoft Teams** (Navy Flank Speed):  
<https://dod.teams.microsoft.us/l/channel/19%3adod%3a5d219fc1ee444d86a4db8f325ba51ceb%40thread.skype/Evaluate%2520STIG?groupId=f8d63861-f4a7-4af4-bb9a-35433e24f6f1&tenantId=e3333e00-c877-4b87-b6ad-45e942de1750>
- **Fusion Chat**:  
<https://chat.navsea.navy.mil/channel/evaluate-stig>  
(You can register for a SPORK account at <https://reg.fusion.navy.mil>)
- **Email**:  
[eval-stig\\_spt@us.navy.mil](mailto:eval-stig_spt@us.navy.mil)

## Appendix D: Supported STIGs

<b>STIG</b>	<b>Version</b>	<b>Date</b>	<b>DisaStatus *</b>
Active Directory Domain	V3R5	13-Sep-24	Active
Active Directory Forest	V3R2	2-Jul-25	Active
Adobe Acrobat Pro XI	V1R2	26-Jan-18	Deprecated
Adobe Acrobat Professional DC Classic Track	V2R1	23-Oct-20	Deprecated
Adobe Acrobat Professional DC Continuous Track	V2R1	23-Jul-21	Active
Adobe Acrobat Reader DC Classic Track	V2R1	23-Oct-20	Deprecated
Adobe Acrobat Reader DC Continuous Track	V2R1	23-Jul-21	Active
Amazon Linux 2023	V1R1	14-Jul-25	Active
Apache Server 2.4 UNIX Server	V3R2	30-Jan-25	Active
Apache Server 2.4 UNIX Site	V2R6	2-Apr-25	Active
Apache Server 2.4 Windows Server	V3R3	2-Apr-25	Active
Apache Server 2.4 Windows Site	V2R2	2-Apr-25	Active
Apache Tomcat Application Server 9	V3R3	1-Oct-25	Active
ArcGIS for Server 10.3	V2R1	26-Jul-23	Sunset
Canonical Ubuntu 16.04 LTS	V2R3	23-Apr-21	Deprecated
Canonical Ubuntu 18.04 LTS	V2R15	24-Jul-24	Sunset
Canonical Ubuntu 20.04 LTS	V2R4	1-Oct-25	Sunset
Canonical Ubuntu 22.04 LTS	V2R6	1-Oct-25	Active
Canonical Ubuntu 24.04 LTS	V1R3	1-Oct-25	Active
Cisco IOS Router NDM	V3R5	2-Jul-25	Active
Cisco IOS Router RTR	V3R4	1-Oct-25	Active
Cisco IOS Switch L2S	V3R1	24-Jul-24	Active
Cisco IOS Switch NDM	V3R5	2-Jul-25	Active
Cisco IOS Switch RTR	V3R2	1-Oct-25	Active
Cisco IOS XE Router NDM	V3R5	2-Jul-25	Active
Cisco IOS XE Router RTR	V3R5	1-Oct-25	Active
Cisco IOS XE Switch L2S	V3R2	2-Jul-25	Active
Cisco IOS XE Switch NDM	V3R4	2-Jul-25	Active
Cisco IOS XE Switch RTR	V3R3	1-Oct-25	Active
Citrix Virtual Apps and Desktop 7.x Workspace App	V1R3	2-Jul-25	Sunset
Google Chrome Current Windows	V2R11	2-Jul-25	Active
JBoss Enterprise Application Platform 6.3	V2R6	2-Apr-25	Active
McAfee VirusScan 8.8 Local Client	V6R1	27-Jan-22	Deprecated
Microsoft Access 2013	V1R7	24-Jul-24	Deprecated
Microsoft Access 2016	V1R1	14-Nov-16	Active
Microsoft Defender Antivirus	V2R6	24-Sep-25	Active
Microsoft DotNet Framework 4.0	V2R7	2-Jul-25	Active

Microsoft Edge	V2R3	2-Jul-25	Active
Microsoft Excel 2013	V1R8	24-Jul-24	Deprecated
Microsoft Excel 2016	V2R1	24-Apr-24	Active
Microsoft Exchange 2016 Edge Transport Server	V2R6	30-Jan-25	Active
Microsoft Exchange 2016 Mailbox Server	V2R6	24-Jan-24	Active
Microsoft Exchange 2019 Edge Server	V2R2	30-Jan-25	Active
Microsoft Exchange 2019 Mailbox Server	V2R3	2-Jul-25	Active
Microsoft Groove 2013	V1R4	30-Jan-25	Deprecated
Microsoft IIS 10.0 Server	V3R5	1-Oct-25	Active
Microsoft IIS 10.0 Site	V2R13	1-Oct-25	Active
Microsoft IIS 8.5 Server	V2R7	25-Oct-23	Deprecated
Microsoft IIS 8.5 Site	V2R9	25-Oct-23	Deprecated
Microsoft InfoPath 2013	V1R6	24-Jul-24	Deprecated
Microsoft Internet Explorer 11	V2R5	24-Jan-24	Active
Microsoft Lync 2013	V1R5	24-Jul-24	Deprecated
Microsoft Office 365 ProPlus	V3R4	1-Oct-25	Active
Microsoft Office System 2013	V2R2	24-Jul-24	Deprecated
Microsoft Office System 2016	V2R4	30-Jan-25	Active
Microsoft OneDrive	V2R4	2-Jul-25	Sunset
Microsoft OneNote 2013	V1R4	30-Jan-25	Deprecated
Microsoft OneNote 2016	V1R2	19-Jan-17	Active
Microsoft Outlook 2013	V1R14	30-Jan-25	Deprecated
Microsoft Outlook 2016	V2R3	27-Apr-22	Active
Microsoft PowerPoint 2013	V1R7	24-Jul-24	Deprecated
Microsoft PowerPoint 2016	V1R1	14-Nov-16	Active
Microsoft Project 2013	V1R5	24-Jul-24	Deprecated
Microsoft Project 2016	V1R1	14-Nov-16	Active
Microsoft Publisher 2013	V1R6	24-Jul-24	Deprecated
Microsoft Publisher 2016	V1R3	27-Apr-18	Active
Microsoft SharePoint 2013	V2R4	30-Jan-25	Deprecated
Microsoft Skype for Business 2016	V1R1	14-Nov-16	Active
Microsoft SQL Server 2022 Database	V1R1	27-May-25	Active
Microsoft SQL Server 2022 Instance	V1R2	1-Oct-25	Active
Microsoft Visio 2013	V1R5	24-Jul-24	Deprecated
Microsoft Visio 2016	V1R1	14-Nov-16	Active
Microsoft Windows 10	V3R5	1-Oct-25	Active
Microsoft Windows 11	V2R5	1-Oct-25	Active
Microsoft Windows Defender Firewall with Advanced Security	V2R2	9-Nov-23	Active
Microsoft Windows Server 2012/2012 R2 Domain Controller	V3R7	9-Nov-23	Deprecated
Microsoft Windows Server 2012/2012 R2 Member Server	V3R7	9-Nov-23	Deprecated
Microsoft Windows Server 2016	V2R10	15-Jan-25	Sunset

Microsoft Windows Server 2019	V3R6	1-Oct-25	Active
Microsoft Windows Server 2022	V2R6	1-Oct-25	Active
Microsoft Windows Server Domain Name System (DNS)	V2R3	2-Apr-25	Active
Microsoft Word 2013	V1R7	24-Jul-24	Deprecated
Microsoft Word 2016	V1R1	14-Nov-16	Active
MongoDB Enterprise Advanced 3.x	V2R3	24-Jul-24	Sunset
Mozilla Firefox	V6R6	2-Apr-25	Active
MS SharePoint Designer 2013	V1R3	27-Apr-18	Deprecated
MS SQL Server 2014 Database	V1R7	24-Jul-24	Sunset
MS SQL Server 2014 Instance	V2R4	24-Jul-24	Sunset
MS SQL Server 2016 Database	V3R3	2-Jul-25	Active
MS SQL Server 2016 Instance	V3R5	2-Jul-25	Active
Oracle Java JRE 8 for Unix	V1R3	27-Oct-17	Deprecated
Oracle Java Runtime Environment (JRE) Version 8 for Windows	V2R1	22-Jan-21	Deprecated
Oracle Linux 7	V3R4	1-Oct-25	Sunset
Oracle Linux 8	V2R6	1-Oct-25	Active
Oracle Linux 9	V1R3	1-Oct-25	Active
PostgreSQL 9.x	V2R5	24-Jul-24	Sunset
Rancher Government Solutions RKE2	V2R4	1-Oct-25	Active
Red Hat Enterprise Linux 7	V3R15	24-Jul-24	Sunset
Red Hat Enterprise Linux 8	V2R5	1-Oct-25	Active
Red Hat Enterprise Linux 9	V2R6	1-Oct-25	Active
Trellix ENS 10.x Local Client	V2R4	2-Jul-25	Active
VMware Horizon 7.13 Agent	V1R1	13-Jul-21	Sunset
VMware Horizon 7.13 Client	V1R1	13-Jul-21	Sunset
VMware Horizon 7.13 Connection Server	V1R2	24-Apr-24	Sunset
Windows 7	V1R32	17-Jun-20	Deprecated
Windows Server 2008 R2 Member Server	V1R33	17-Jun-20	Deprecated

\* STIGs no longer available on <https://www.cyber.mil> are considered Deprecated.