

Secure Endpoint - Connector Updates Being Blocked Due to Microsoft Attack Surface Reduction

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Introduction

This document describes issues caused by **Microsoft Intune Attack surface reduction blocks using copied or impersonated system tools** feature on systems managed by Microsoft Intune which in turn causes Secure Endpoint updates to fail.

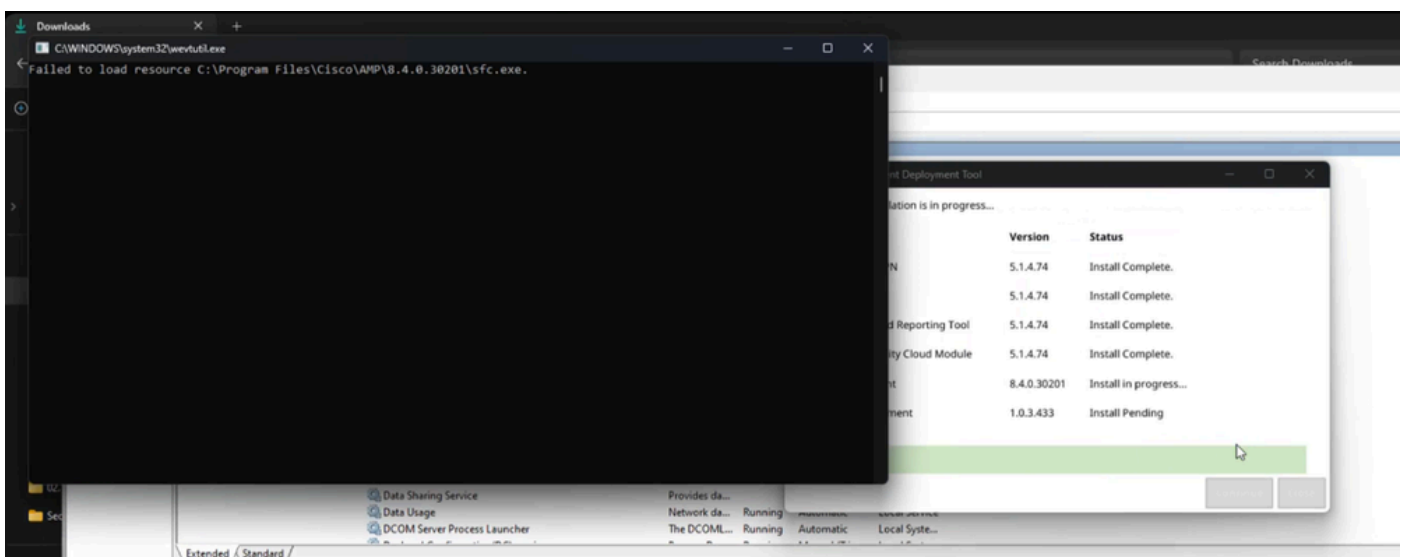
Please refer to the feature documentation: <https://learn.microsoft.com/en-us/defender-endpoint/attack-surface-reduction>

Problem

We can experience issues with Secure Endpoint upgrades or installation which is represented by these errors and indicators.

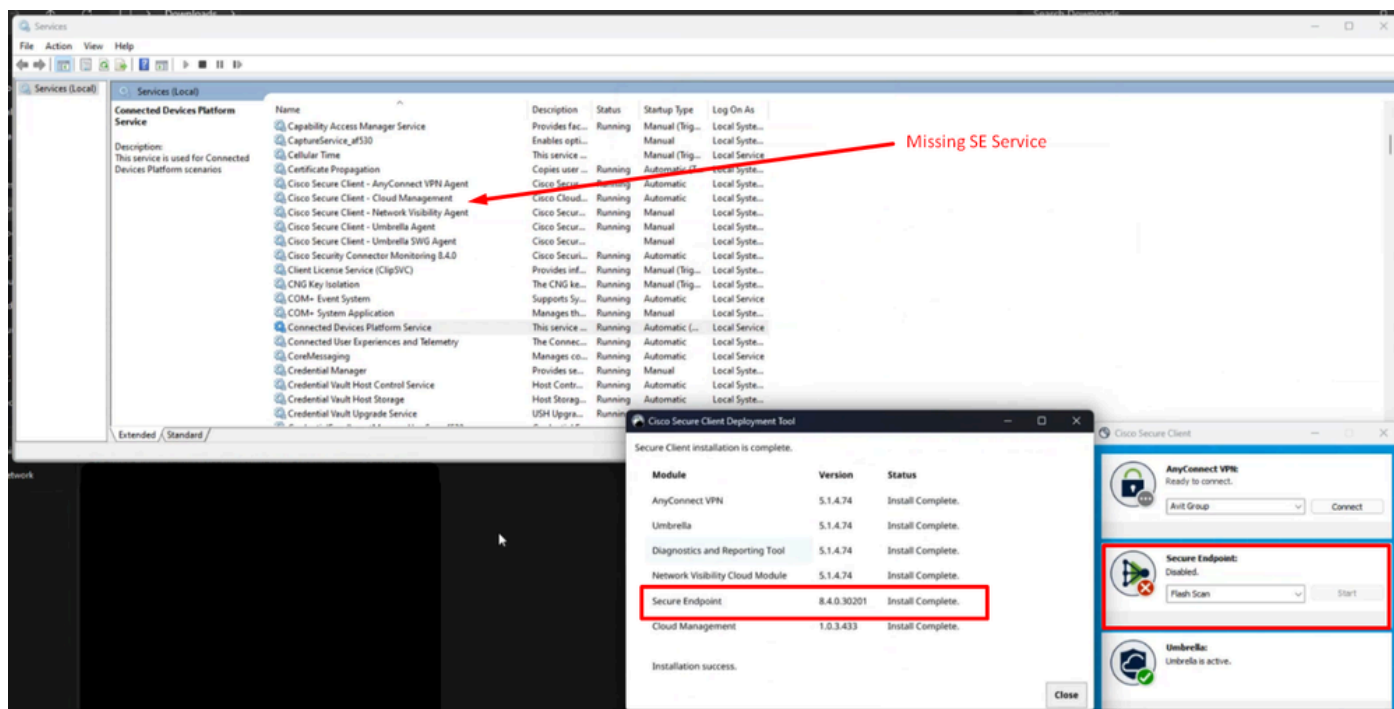
There are various indicators that can be used to identify that this feature interfering with Secure Endpoint updates.

Indicator #1: During deployment, we going to notice this pop-up window at the end of the installation. Please note that the pop-up is fairly quick and there is no other recollection of any error once the installation is completed.

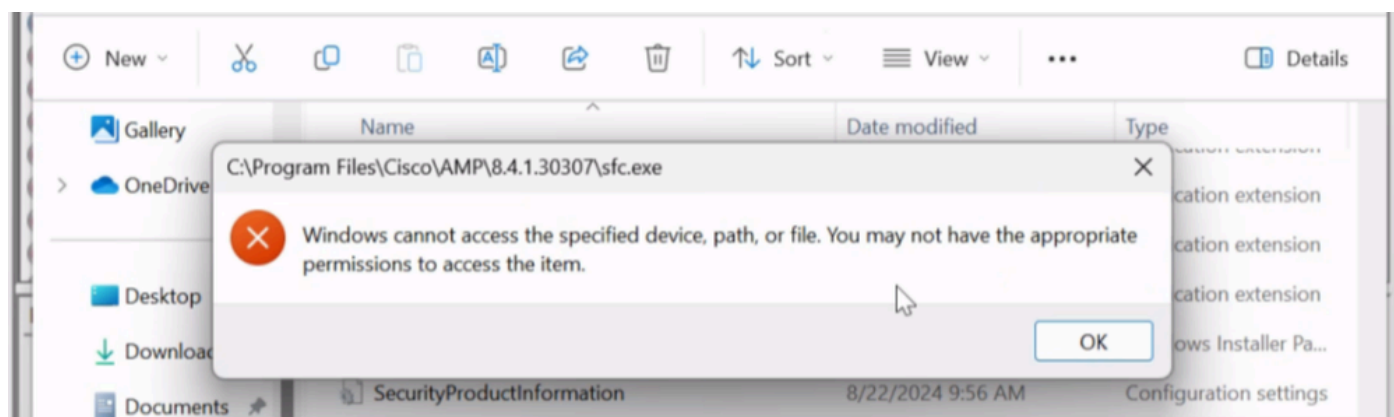


Indicator #2: After the installation, notice that Secure Endpoint is in disabled state in the UI.

Also, completely missing Secure Endpoint Service (*sfc.exe*) in the **Task Manager --> Services**



Indicator #3: If we navigate to the location of Cisco Secure Endpoint under **C:\Program Files\Cisco\AMP\version** and try to start the service manually, you get permission access denied even for the **local admin** account



Indicator #4: If we investigate **impro_install.log** which is part of the diagnostic bundle we can observe a similar denial of access that look similar to this output.

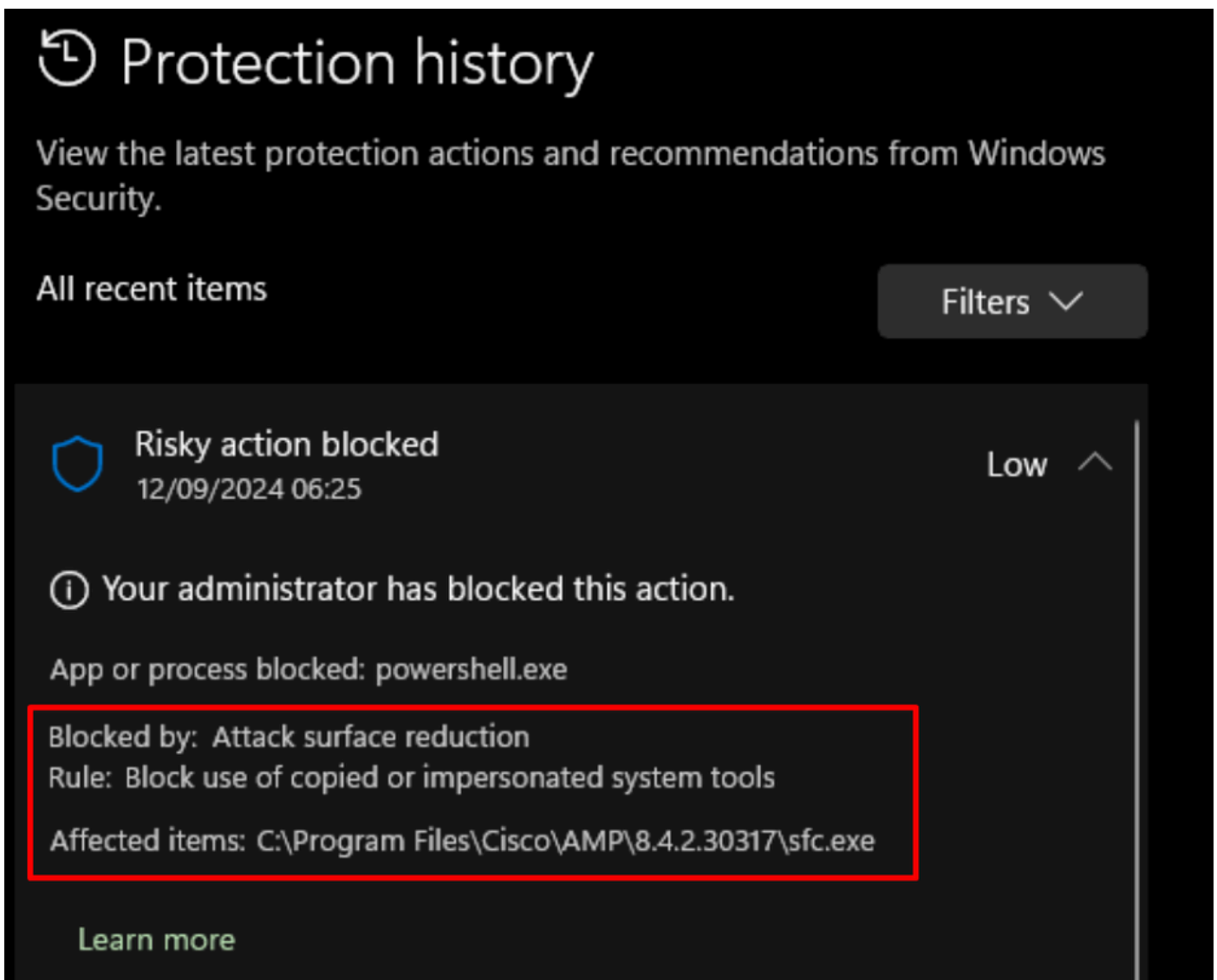
Example #1:

(5090625, +0 ms) Aug 22 09:56:33 [17732]: ERROR: Util::GetFileSHA256: unable to generate file fp: C:\Pr
(5090625, +0 ms) Aug 22 09:56:33 [17732]: ERROR: VerifyFile: Failed to grab hash of C:\Program Files\Ci
(5090625, +0 ms) Aug 22 09:56:33 [17732]: ERROR: VerifyAllInstalledFiles: Failed to verify \$AMP_INSTALL

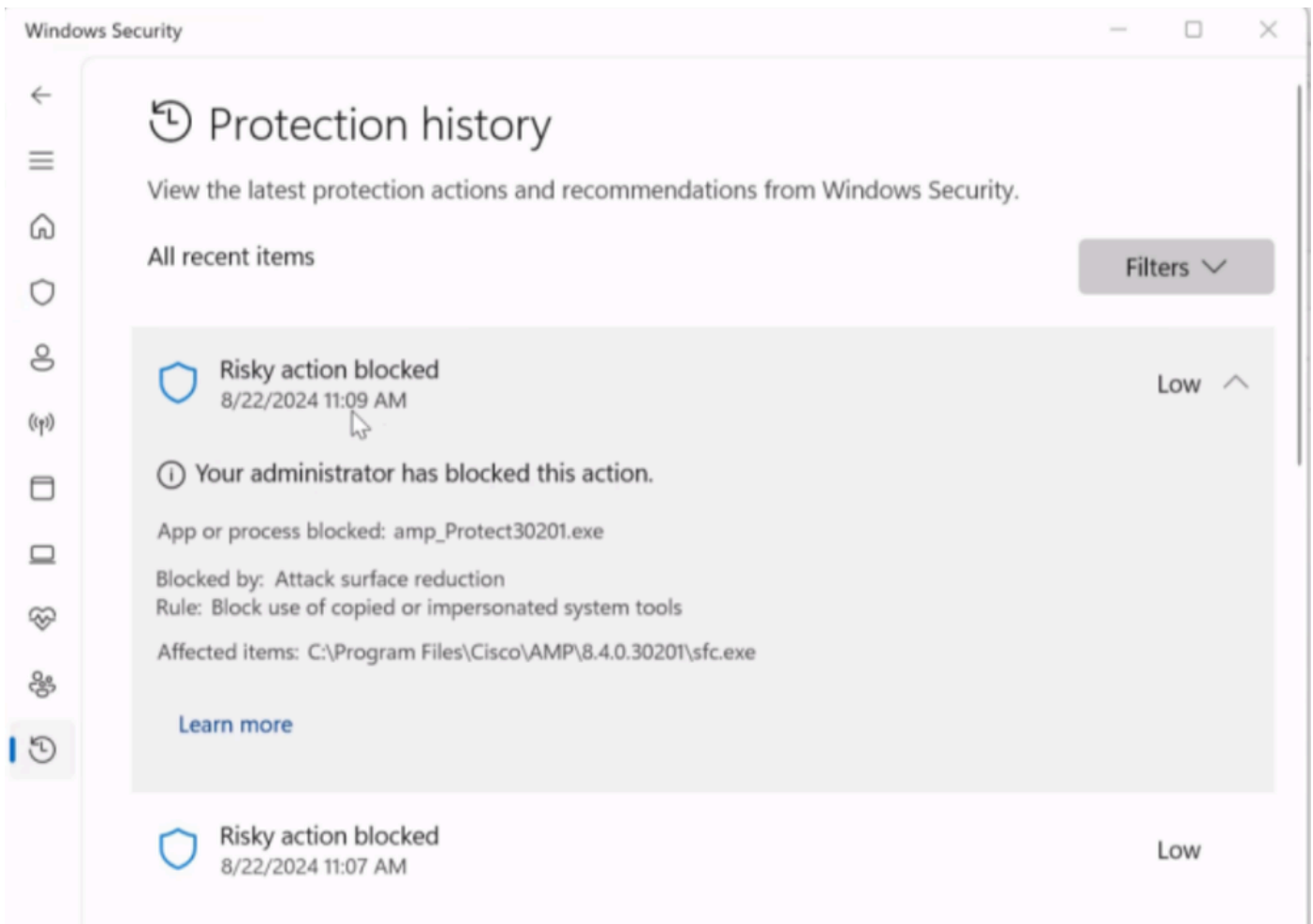
Example #2:

(1737859, +0 ms) Sept 11 14:04:05 [20180]: ERROR: imn_error: fp_gen_internal: failed to open file C:\Pr
(1737859, +0 ms) Sept 11 14:04:05 [20180]: ERROR: Util::GetFileSHA256: unable to generate file fp: C:\P
(1737859, +0 ms) Sept 11 14:04:05 [20180]: ERROR: VerifyFile: Failed to grab hash of C:\Program Files\C
(1737859, +0 ms) Sept 11 14:04:05 [20180]: ERROR: VerifyAllInstalledFiles: Failed to verify \$AMP_INSTAL

Indicator #5: If we navigate under **Windows Security** and look in to the **Protection History logs** look for these type of log messages.



The screenshot shows the Windows Security 'Protection history' interface. At the top, it says 'View the latest protection actions and recommendations from Windows Security.' Below this, there's a section for 'All recent items' with a 'Filters' dropdown. The main entry is a 'Risky action blocked' event from 12/09/2024 at 06:25, with a 'Low' severity level. The message states: 'Your administrator has blocked this action. App or process blocked: powershell.exe'. A red box highlights the following details: 'Blocked by: Attack surface reduction', 'Rule: Block use of copied or impersonated system tools', and 'Affected items: C:\Program Files\Cisco\AMP\8.4.2.30317\sfc.exe'. A 'Learn more' link is visible at the bottom left.



All these are indications that the Secure Endpoint is being blocked by 3rd party application. In this scenario, the issue was seen on Intune managed endpoints with either incorrectly configured or not configured **Attack surface reduction - BLOCK use of copied or impersonated system** feature.

Workaround

It is advised to consult configuration for this feature with the application developer or consult this feature further through this [knowledge base](#).

For immediate remediation, we can either move our managed endpoint in intune to a less restrictive policy or temporary turn this feature explicitly off until proper steps are made.

This is the setting under Intune admin portal that was used as temporary measure to restore Secure Endpoint connectivity.

Edit profile - WCS - Defender Baseline

Settings catalog

Block Office communication application from creating child processes

Block all Office applications from creating child processes

Block Adobe Reader from creating child processes

Block credential stealing from the Windows local security authority subsystem

Block JavaScript or VBScript from launching downloaded executable content

Block Webshell creation for Servers

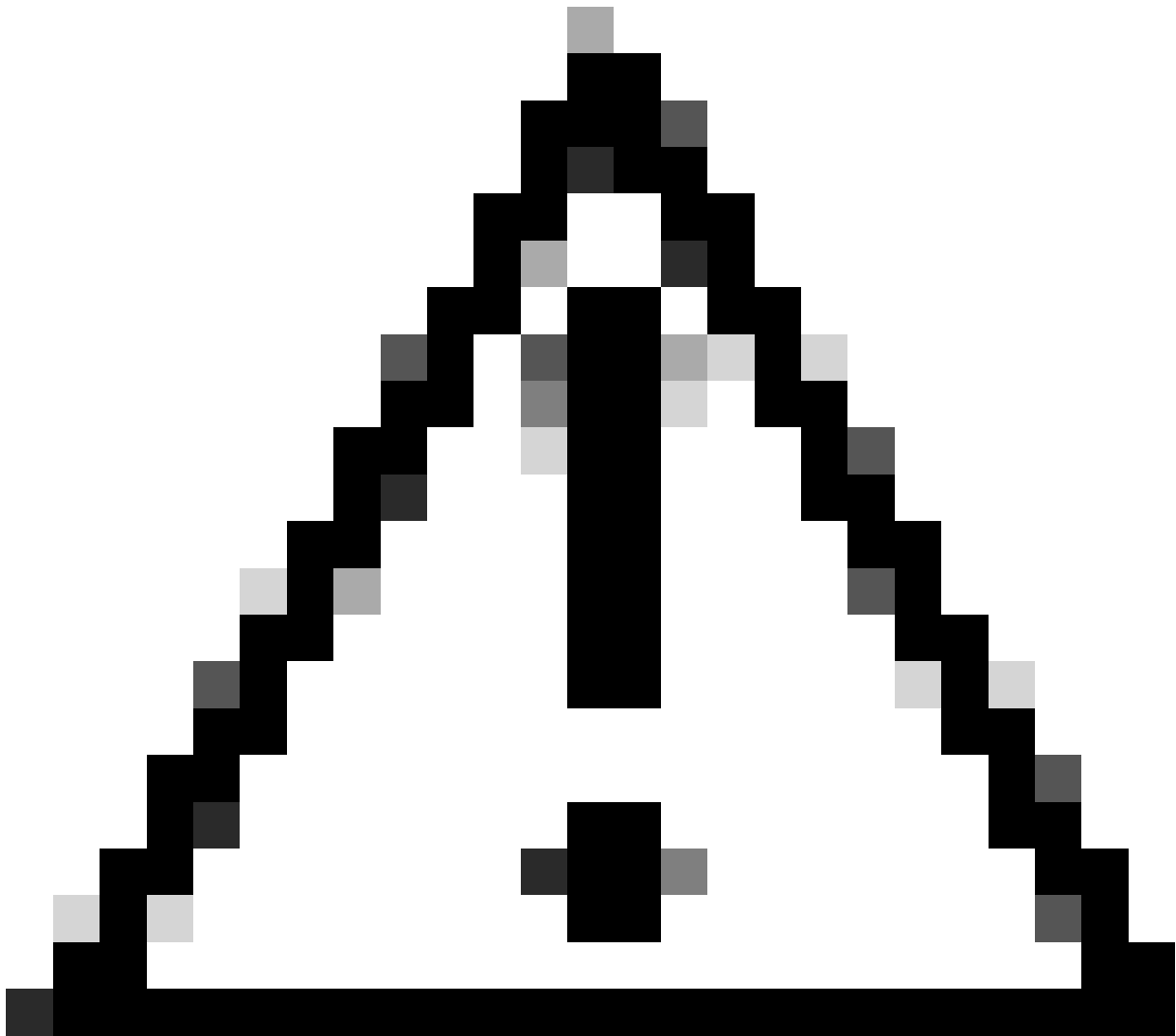
Block trusted and unsigned processes that run from USB

Block persistence through WMI event subscription

[PREVIEW] Block use of copied or impersonated system tools

Block abuse of exploited vulnerable signed drivers (Device)

- Home
- Dashboard
- All services
- Devices
- Apps
- Endpoint security
- Reports
- Users
- Groups
- Tenant administration
- Troubleshooting + support



Caution: If you experience this issue, you must initiate full install due to missing **sfc.exe**
