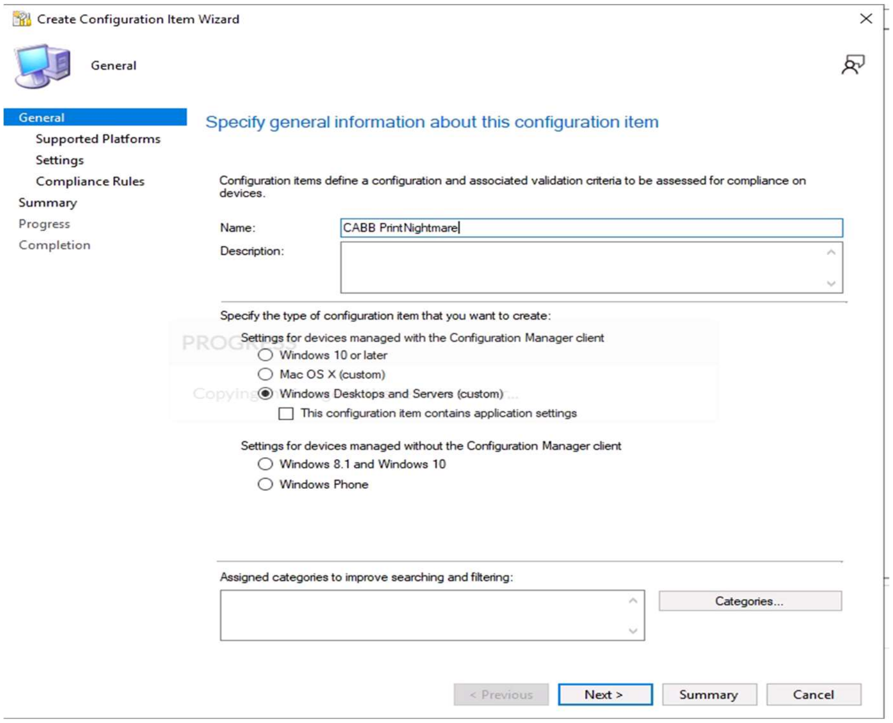
Configuration Baseline

Alex Batker

PrintNightmare

Create a new Configuration item named ‘CABB PrintNightmare’



Specify general information about this configuration item

Configuration items define a configuration and associated validation criteria to be assessed for compliance on devices.

Name: CABB PrintNightmare

Description:

Specify the type of configuration item that you want to create:

Settings for devices managed with the Configuration Manager client

○ Windows 10 or later

○ Mac OS X (custom)

● Windows Desktops and Servers (custom)

□ This configuration item contains application settings

Settings for devices managed without the Configuration Manager client

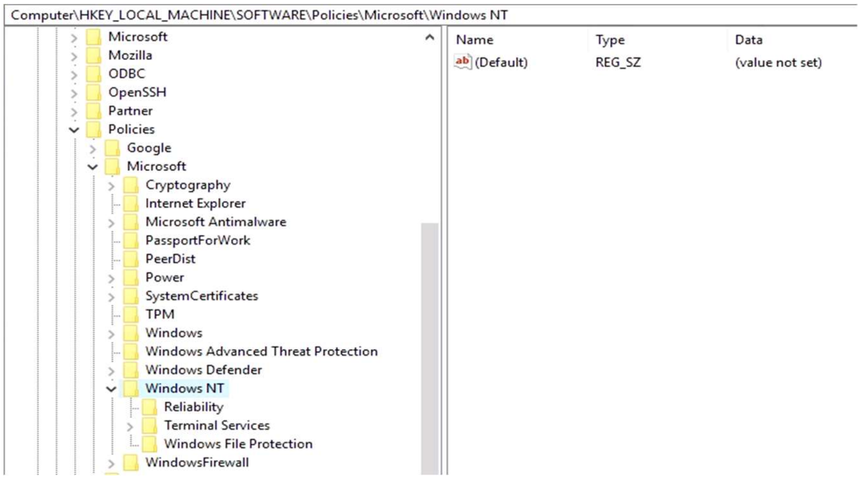
○ Windows 8.1 and Windows 10

○ Windows Phone

Assigned categories to improve searching and filtering:

Checking if point and print registry exists in Registry Editor:

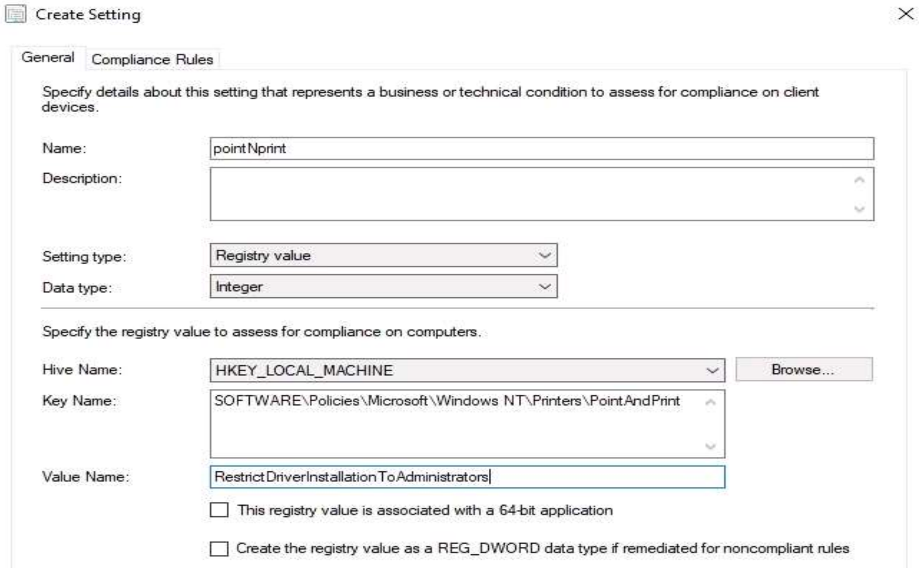
Here I can verify that this registry key(SOFTWARE\Policies\Microsoft\Windows NT\Printers\PointAndPoint) does not exist on my windows system.


Computer\HKEY_LOCAL_MACHINE\SOFTWARE\Policies\Microsoft\Windows NT

Name	Type	Data
(Default)	REG_SZ	(value not set)

Configuring key settings:

Key Name: SOFTWARE\Policies\Microsoft\Windows NT\Printers\PointAndPoint



Specify details about this setting that represents a business or technical condition to assess for compliance on client devices.

Name: pointNprint

Description:

Setting type: Registry value

Data type: Integer

Specify the registry value to assess for compliance on computers.

Hive Name: HKEY_LOCAL_MACHINE

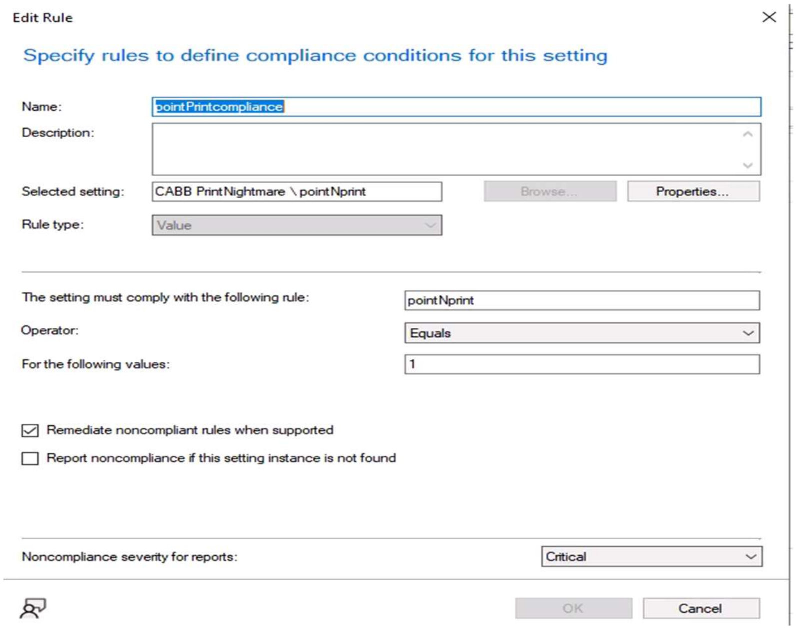
Key Name: SOFTWARE\Policies\Microsoft\Windows NT\Printers\PointAndPrint

Value Name: RestrictDriverInstallationToAdministrators

□ This registry value is associated with a 64-bit application

□ Create the registry value as a REG_DWORD data type if remediated for noncompliant rules

Configuring Compliance settings:



Specify rules to define compliance conditions for this setting

Name: pointPrintcompliance

Description:

Selected setting: CABB PrintNightmare \ pointNprint

Rule type: Value

The setting must comply with the following rule: pointNprint

Operator: Equals

For the following values: 1

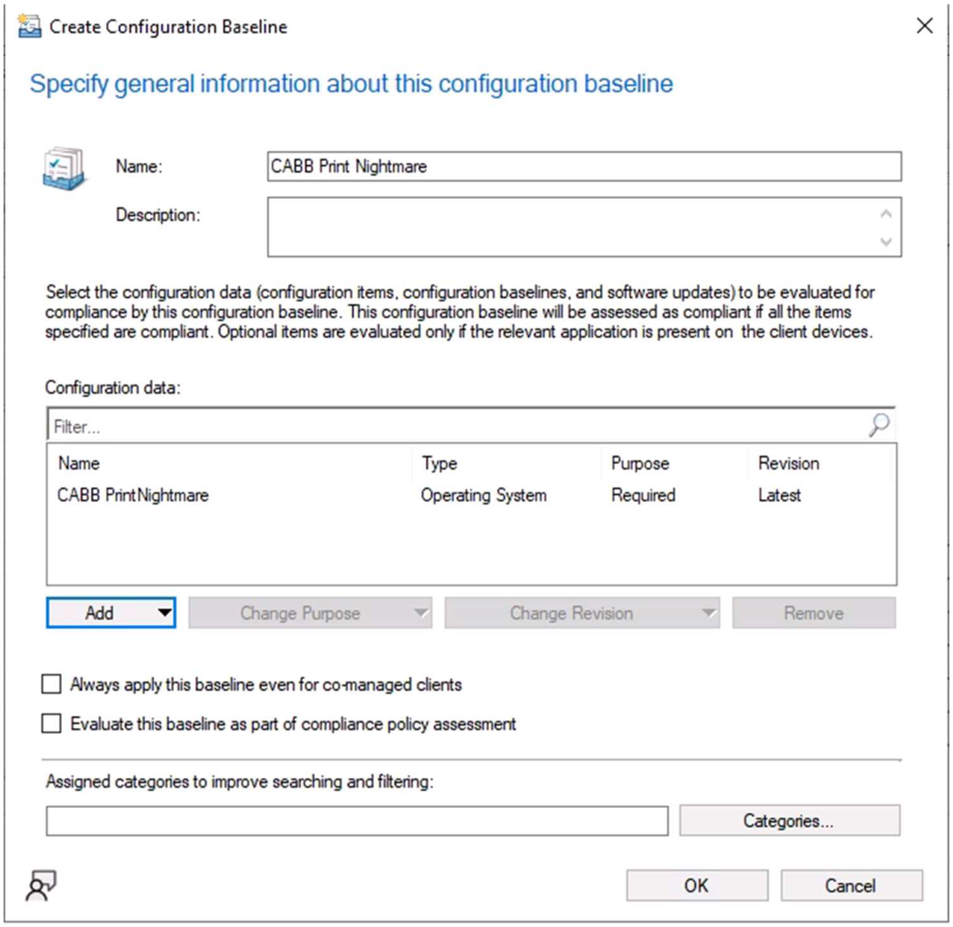
☑ Remediate noncompliant rules when supported

□ Report noncompliance if this setting instance is not found

Noncompliance severity for reports: Critical

Creating a configuration baseline:

Here I am using the configuration item ‘CABB PrintNightmare’



Create Configuration Baseline

Specify general information about this configuration baseline

Name: CABB Print Nightmare

Description:

Select the configuration data (configuration items, configuration baselines, and software updates) to be evaluated for compliance by this configuration baseline. This configuration baseline will be assessed as compliant if all the items specified are compliant. Optional items are evaluated only if the relevant application is present on the client devices.

Configuration data:

Filter...

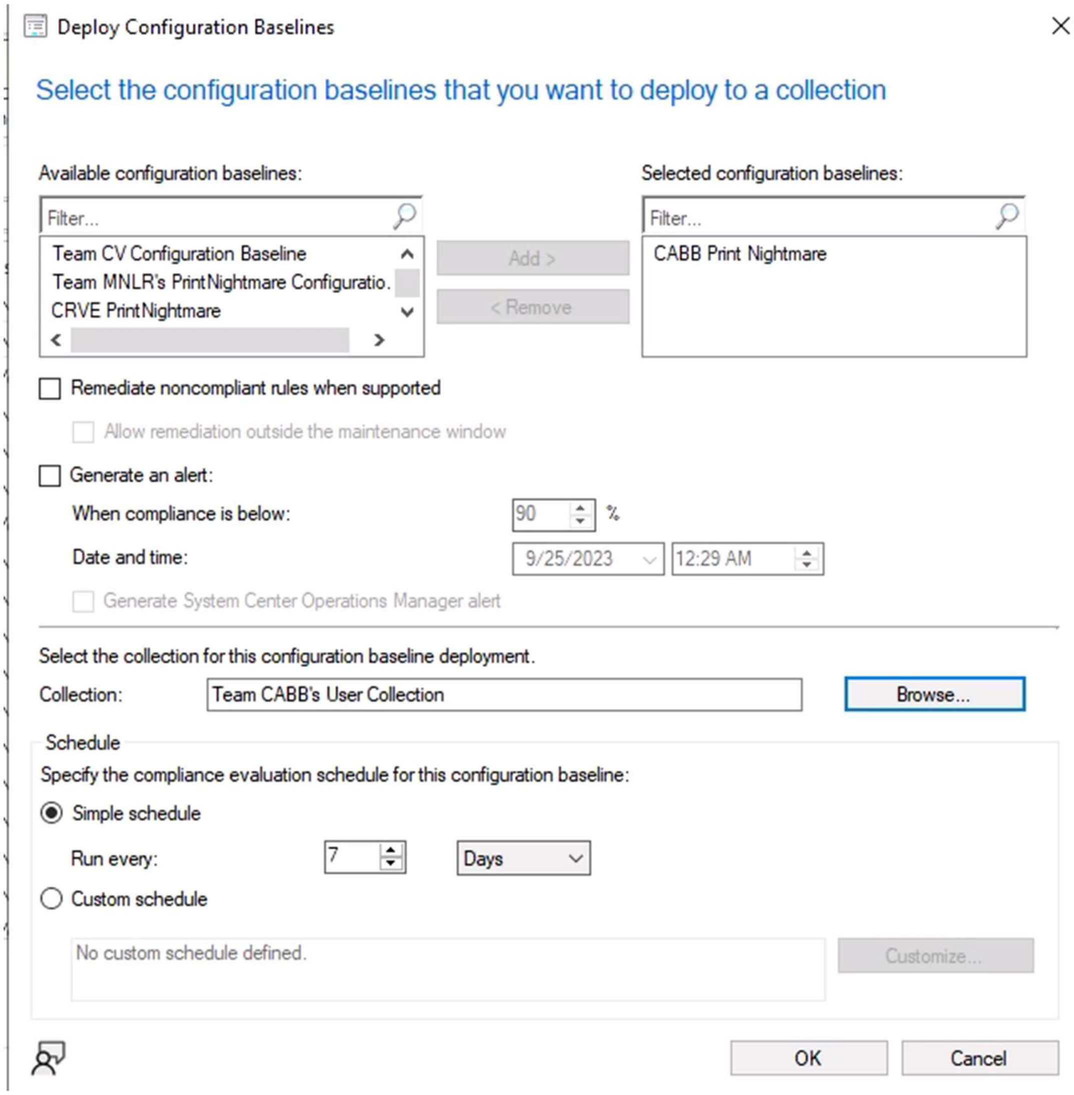
Name	Type	Purpose	Revision
CABB PrintNightmare	Operating System	Required	Latest

□ Always apply this baseline even for co-managed clients

□ Evaluate this baseline as part of compliance policy assessment

Assigned categories to improve searching and filtering:

Deploying configuration baseline to team collection:



Deploy Configuration Baselines

Select the configuration baselines that you want to deploy to a collection

Available configuration baselines:

- Team CV Configuration Baseline
- Team MNLR's PrintNightmare Configuratio.
- CRVE PrintNightmare

Selected configuration baselines:

- CABB Print Nightmare

☐ Remediate noncompliant rules when supported

☐ Allow remediation outside the maintenance window

☐ Generate an alert:

When compliance is below: 90 %

Date and time: 9/25/2023 12:29 AM

☐ Generate System Center Operations Manager alert

Select the collection for this configuration baseline deployment.

Collection: Team CABB's User Collection

Schedule

Specify the compliance evaluation schedule for this configuration baseline:

● Simple schedule

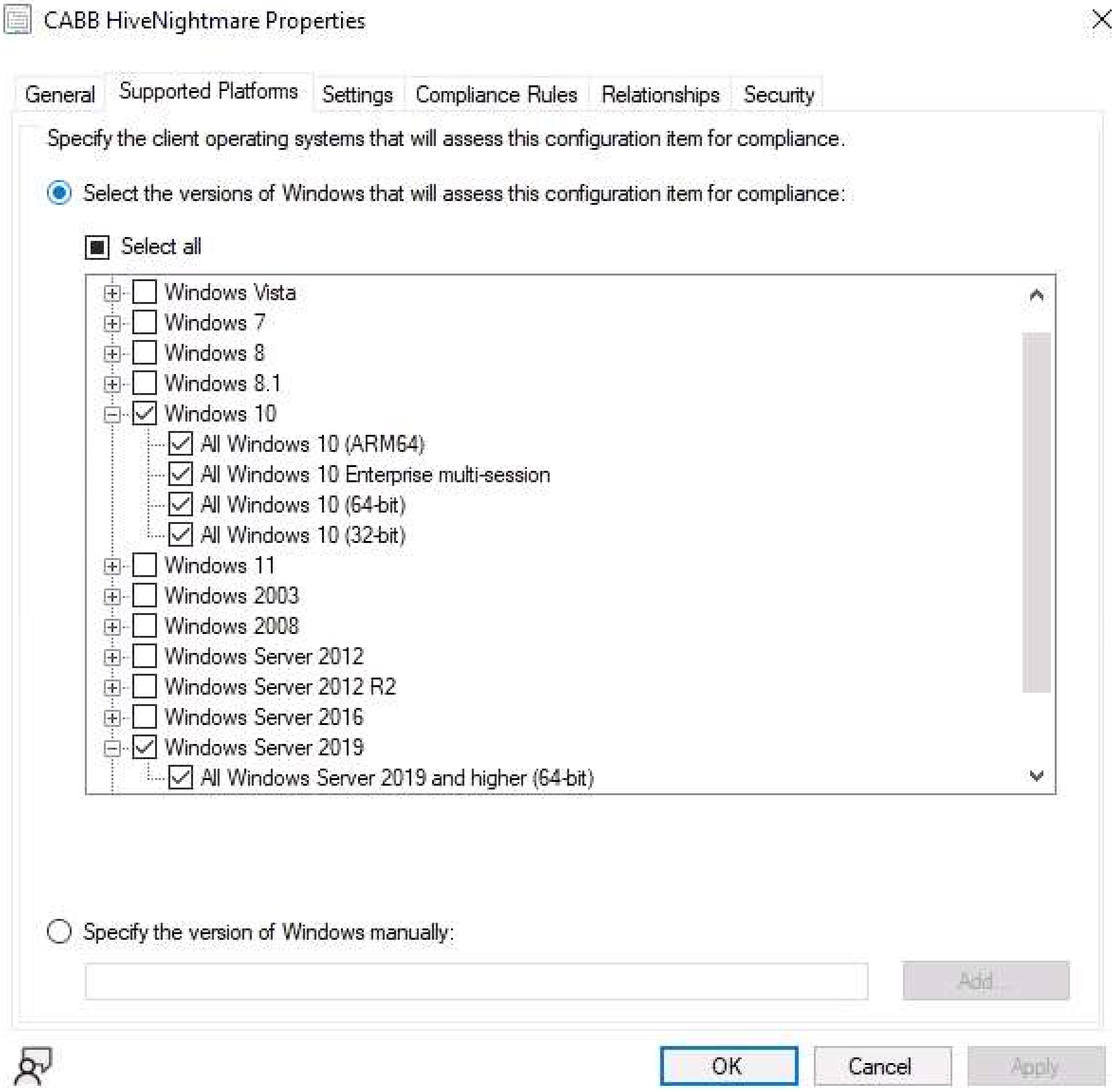
Run every: 7 Days

○ Custom schedule

No custom schedule defined.

HiveNightmare

OS settings for our team's HiveNightmare Configuration Item.



Specify the client operating systems that will assess this configuration item for compliance.

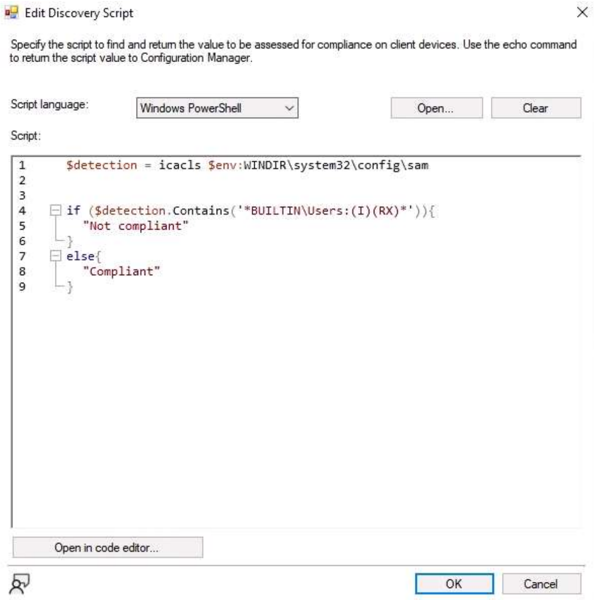
● Select the versions of Windows that will assess this configuration item for compliance:

■ Select all

- □ Windows Vista
- □ Windows 7
- □ Windows 8
- □ Windows 8.1
- ☑ Windows 10
  - ☑ All Windows 10 (ARM64)
  - ☑ All Windows 10 Enterprise multi-session
  - ☑ All Windows 10 (64-bit)
  - ☑ All Windows 10 (32-bit)
- □ Windows 11
- □ Windows 2003
- □ Windows 2008
- □ Windows Server 2012
- □ Windows Server 2012 R2
- □ Windows Server 2016
- ☑ Windows Server 2019
  - ☑ All Windows Server 2019 and higher (64-bit)

○ Specify the version of Windows manually:

Our detection and remediation scripts to our Configuration Item.



Edit Discovery Script

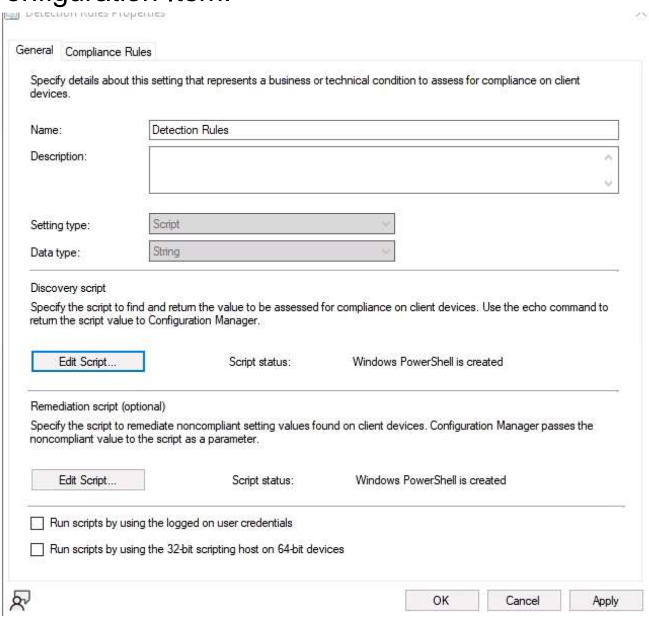
Specify the script to find and return the value to be assessed for compliance on client devices. Use the echo command to return the script value to Configuration Manager.

Script language: Windows PowerShell

Script:

```
$detection = icacls $env:WINDIR\system32\config\sam


if ($detection.Contains('*BUILTIN\Users:(I)(RX)*')){
   "Not compliant"
}
else{
   "Compliant"
}
```



Detection Rules Properties

Specify details about this setting that represents a business or technical condition to assess for compliance on client devices.

Name: Detection Rules

Description:

Setting type: Script

Data type: String

Discovery script

Specify the script to find and return the value to be assessed for compliance on client devices. Use the echo command to return the script value to Configuration Manager.

Script status: Windows PowerShell is created

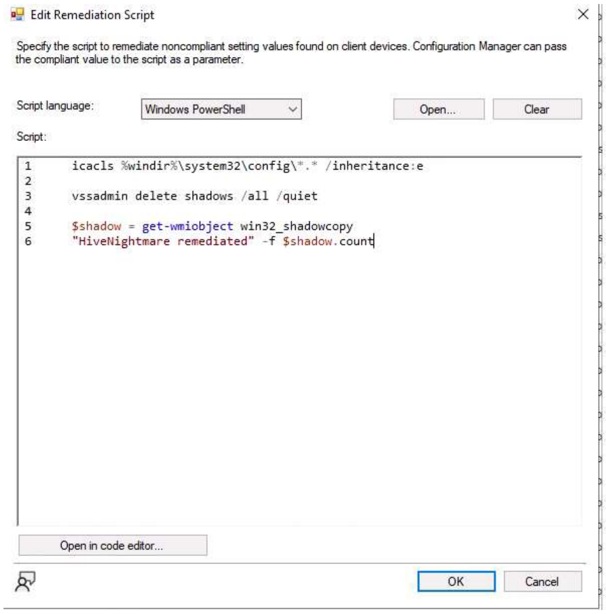
Remediation script (optional)

Specify the script to remediate noncompliant setting values found on client devices. Configuration Manager passes the noncompliant value to the script as a parameter.

Script status: Windows PowerShell is created

☐ Run scripts by using the logged on user credentials

☐ Run scripts by using the 32-bit scripting host on 64-bit devices



Edit Remediation Script

Specify the script to remediate noncompliant setting values found on client devices. Configuration Manager can pass the compliant value to the script as a parameter.

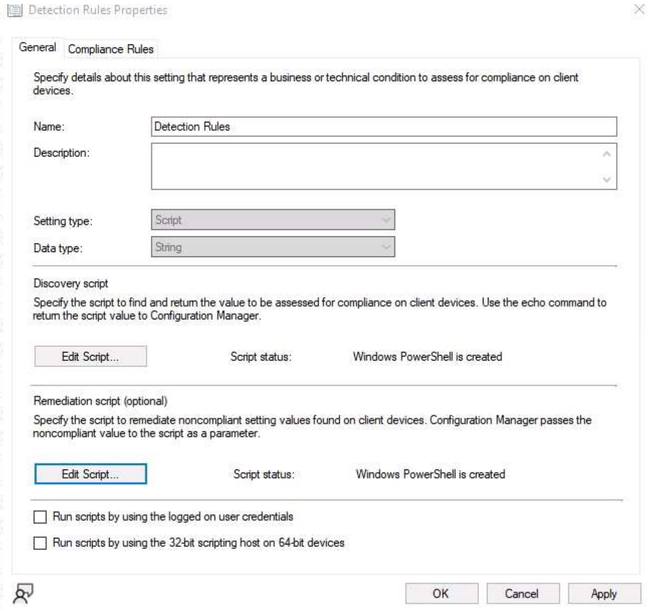
Script language: Windows PowerShell

Script:

```
icacls %windir%\system32\config\*.* /inheritance:e

vssadmin delete shadows /all /quiet

$shadow = get-wmiobject win32_shadowcopy
"HiveNightmare remediated" -f $shadow.count
```



Detection Rules Properties

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Script status: Windows PowerShell is created

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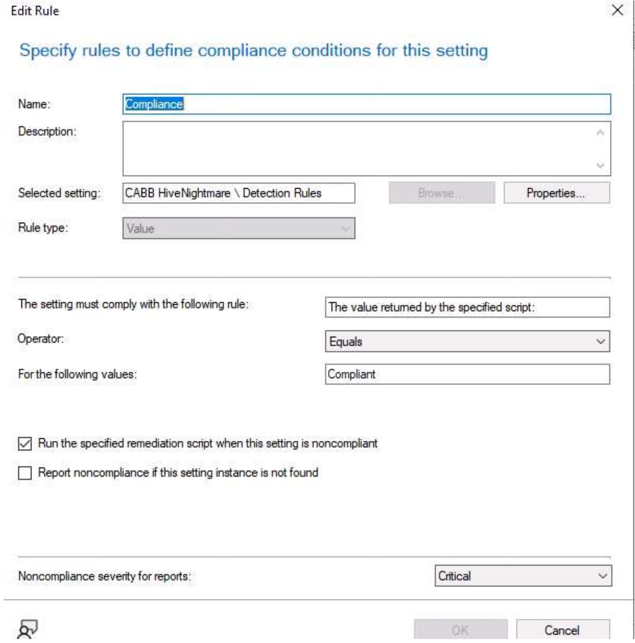
Script status: Windows PowerShell is created

☐ Run scripts by using the logged on user credentials

☐ Run scripts by using the 32-bit scripting host on 64-bit devices

Compliance conditions for our Configuration Item - the script reports back “Compliant” if it is compliant.



Edit Rule

Specify rules to define compliance conditions for this setting

Name: Compliance

Description:

Selected setting: CABB HiveNightmare \ Detection Rules

Rule type: Value

The setting must comply with the following rule: The value returned by the specified script:

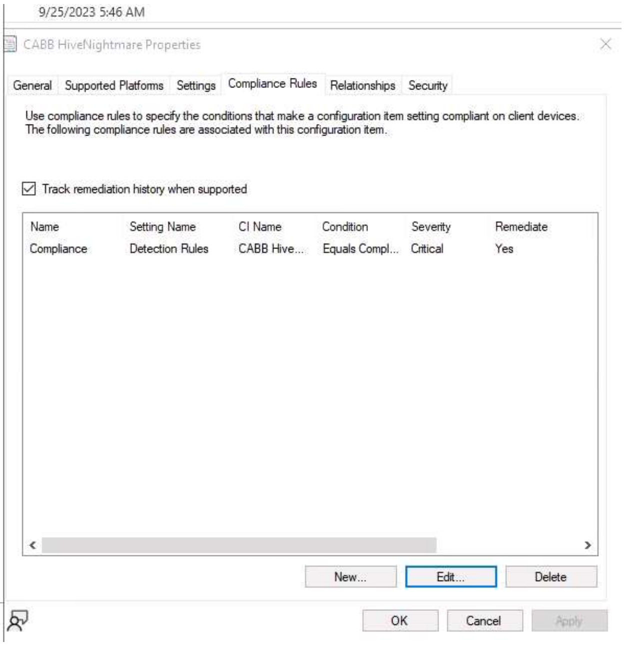
Operator: Equals

For the following values: Compliant

☑ Run the specified remediation script when this setting is noncompliant

□ Report noncompliance if this setting instance is not found

Noncompliance severity for reports: Critical



9/25/2023 5:46 AM

CABB HiveNightmare Properties

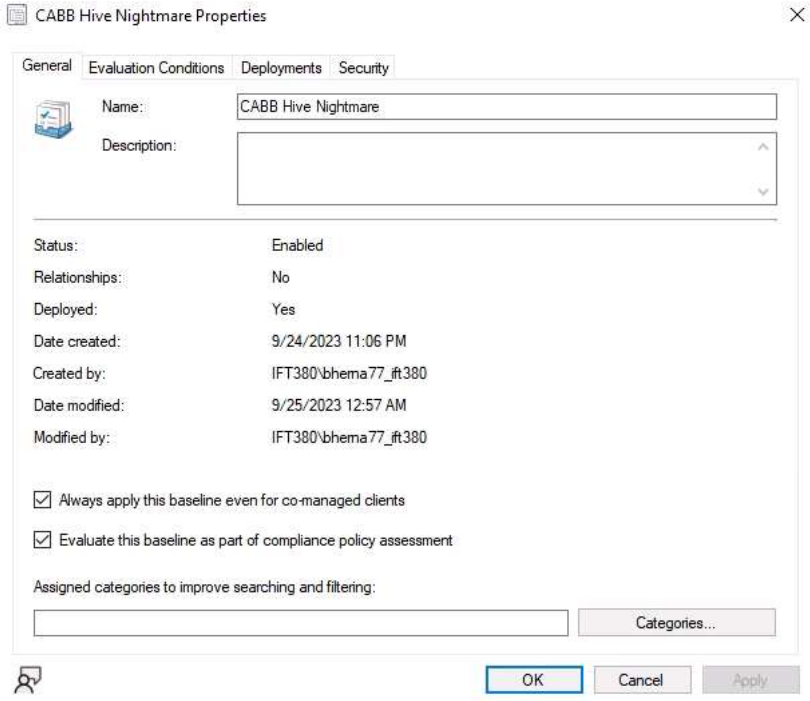
General | Supported Platforms | Settings | Compliance Rules | Relationships | Security

Use compliance rules to specify the conditions that make a configuration item setting compliant on client devices. The following compliance rules are associated with this configuration item.

☑ Track remediation history when supported

Name	Setting Name	CI Name	Condition	Severity	Remediate
Compliance	Detection Rules	CABB Hive...	Equals Compl...	Critical	Yes

Creating a Configuration Baseline for the Hive Nightmare deployment.



Name: CABB Hive Nightmare

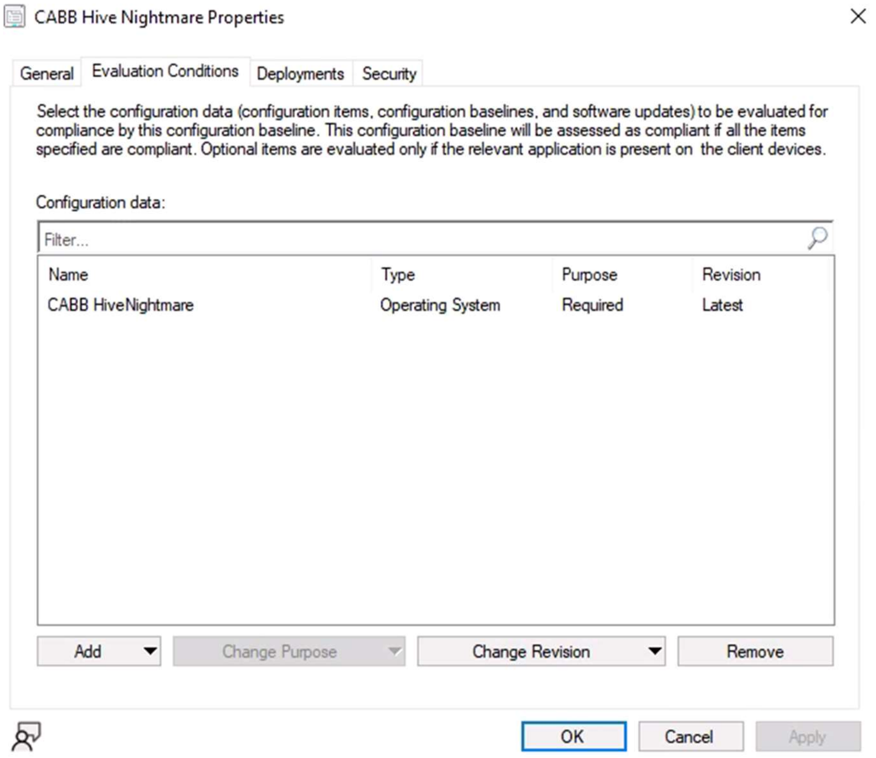
Description:

Status:	Enabled
Relationships:	No
Deployed:	Yes
Date created:	9/24/2023 11:06 PM
Created by:	IFT380\bhema77_ift380
Date modified:	9/25/2023 12:57 AM
Modified by:	IFT380\bhema77_ift380

☑ Always apply this baseline even for co-managed clients

☑ Evaluate this baseline as part of compliance policy assessment

Assigned categories to improve searching and filtering:

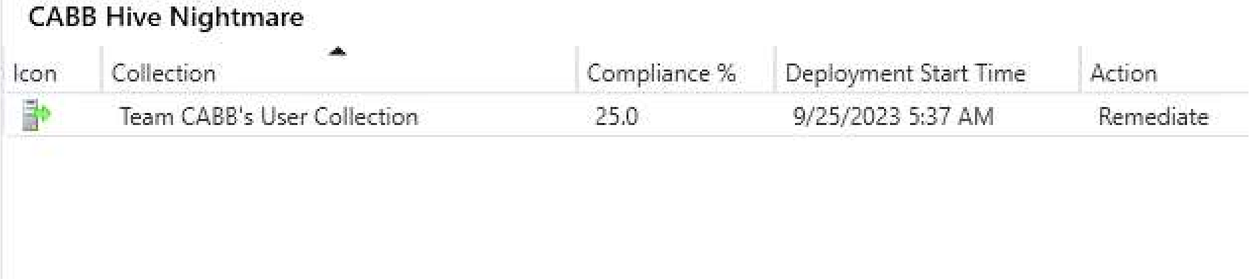


Select the configuration data (configuration items, configuration baselines, and software updates) to be evaluated for compliance by this configuration baseline. This configuration baseline will be assessed as compliant if all the items specified are compliant. Optional items are evaluated only if the relevant application is present on the client devices.

Configuration data:

Name	Type	Purpose	Revision
CABB HiveNightmare	Operating System	Required	Latest

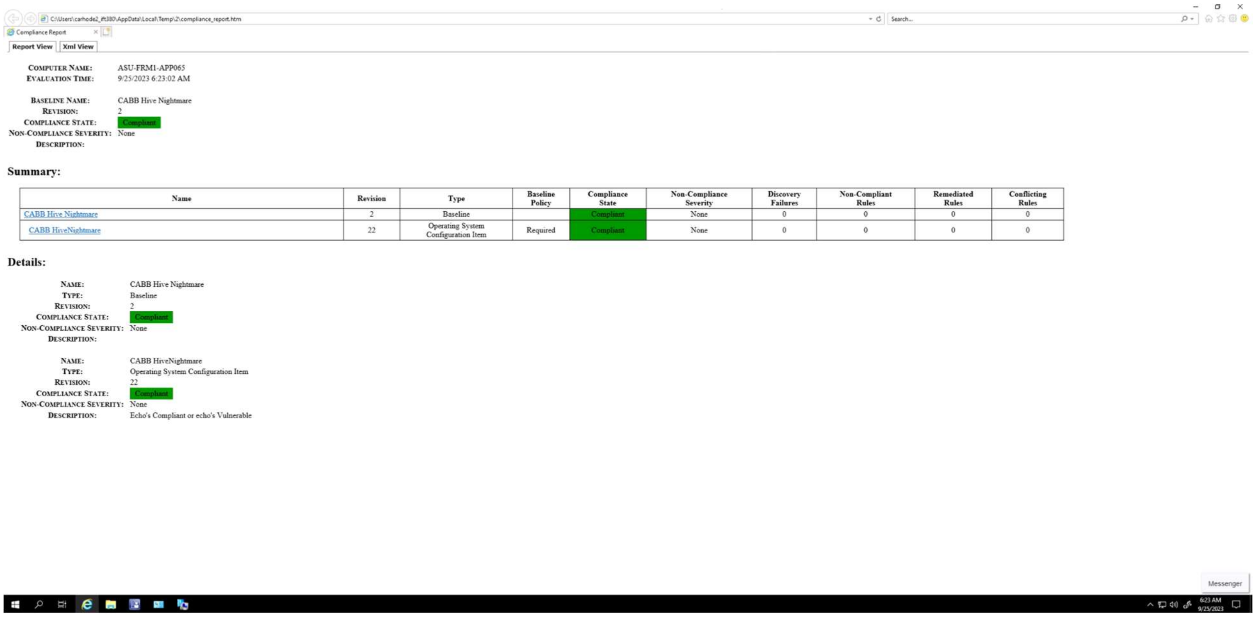
Deployed our Hive Nightmare Configuration Baseline to our team's collection. After a refresh, it had already detected one of our machines as now being compliant after remediation.



CABB Hive Nightmare

Icon	Collection	Compliance %	Deployment Start Time	Action
	Team CABB's User Collection	25.0	9/25/2023 5:37 AM	Remediate

Finally, the compliance report shows the Hive Nightmare compliance state as compliant.



COMPUTER NAME:	ASU-FRM1-APP065
EVALUATION TIME:	9/25/2023 6:23:02 AM
BASELINE NAME:	CABB Hive Nightmare
REVISION:	2
COMPLIANCE STATE:	Compliant
NON-COMPLIANCE SEVERITY:	None
DESCRIPTION:	

Summary:

Name	Revision	Type	Baseline Policy	Compliance State	Non-Compliance Severity	Discovery Failures	Non-Compliant Rules	Remediated Rules	Conflicting Rules
CABB Hive Nightmare	2	Baseline		Compliant	None	0	0	0	0
CABB HiveNightmare	22	Operating System Configuration Item	Required	Compliant	None	0	0	0	0

Details:

NAME:	CABB Hive Nightmare
TYPE:	Baseline
REVISION:	2
COMPLIANCE STATE:	Compliant
NON-COMPLIANCE SEVERITY:	None
DESCRIPTION:	

NAME:	CABB HiveNightmare
TYPE:	Operating System Configuration Item
REVISION:	22
COMPLIANCE STATE:	Compliant
NON-COMPLIANCE SEVERITY:	None
DESCRIPTION:	Echo's Compliant or echo's Vulnerable

```
# The detection script
$detection = icacls $env:WINDIR\system32\config\sam


if ($detection.Contains('*BUILTIN\Users:(I)(RX)*')){
        "Not compliant"
}
else{
        "Compliant"
}


# Our remediation script
icacls %windir%\system32\config\*.* /inheritance:e

vssadmin delete shadows /all /quiet

$shadow = get-wmiobject win32_shadowcopy
"HiveNightmare remediated" -f $shadow.count
```