STIG Implementation Report

Intern Credit Application For: Bruce Thornton

Date: 08/31/2025

STIG Finding: STIG ID: WN11-CC-000110 **SRG:** <u>SRG-OS-000095-GPOS-00049</u>

Severity: medium

CCI: CCI-000381 Vulnerability ID: V-253376

1. Introduction

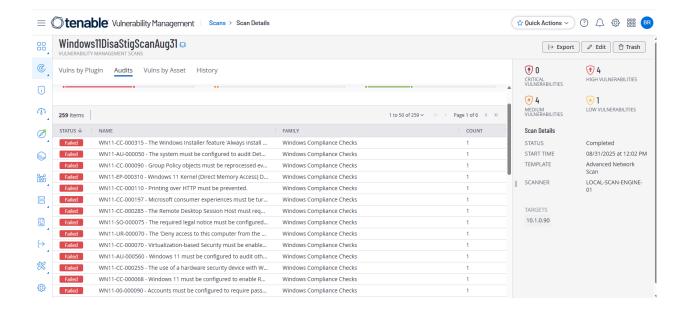
This report documents the process of identifying, remediating, verifying, and automating the fix for a Windows 11 STIG compliance finding. The selected finding was: **STIG ID:** WN11-CC-000110 which requires that "Printing over HTTP must be prevented."

2. Initial Scan Results

- Tool: Tenable.sc / Nessus (Windows 11 STIG Audit Policy)
- Finding ID: WN11-CC-000110
- Status: Fail (non-compliant)

https://stigaview.com/products/win11/v2r2/WN11-CC-000110/

Printing over http must be prevented.



3. Manual and PowerShell Remediation Steps

Manual Remediation (via Group Policy)

- Run gpedit.msc.
- Navigate to:

Computer Configuration \to Administrative Templates \to System \to Internet Communication Management \to Internet Communication settings

- Find "Turn off printing over HTTP".
- Set it to **Enabled**.
- Click $OK \rightarrow run gpupdate / force \rightarrow restart if needed.$

This ensures the policy writes the correct registry key/value.

PowerShell Remediation

```
Utilizing PowerShell ISE
# Registry path for the setting
$RegPath = "HKLM:\SOFTWARE\Policies\Microsoft\Windows NT\Printers"
$ValueName = "DisableHTTPPrinting"
$ValueData = 1
# Create the key if it doesn't exist
if (-not (Test-Path $RegPath)) {
  New-Item -Path $RegPath -Force | Out-Null
}
# Set the DWORD value
New-ItemProperty -Path $RegPath -Name $ValueName -Value $ValueData -PropertyType
DWord -Force | Out-Null
# Verify
Get-ItemProperty -Path $RegPath | Select-Object $ValueName
This will ensure the registry key exists and that DisableHTTPPrinting is set to 1. Run
gpupdate /force
```

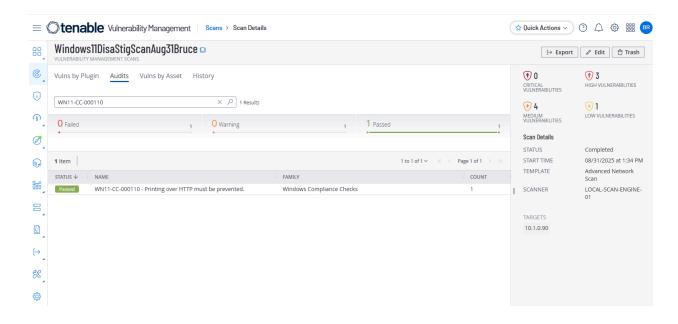
4. Verification Scan Results (After Manual Fix through Group Policy)

Tool: Tenable.sc / Nessus (Windows 11 STIG Audit Policy)

Finding ID: WN11-CC-000110

Status: Passed

Evidence:



5. Reintroduction of Finding (Undo Test through Group Policy)

To demonstrate full control of the setting, the fix was undone:

- Run gpedit.msc.
- Navigate to:

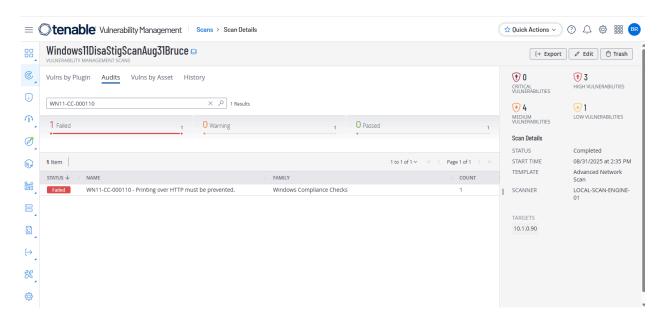
Computer Configuration \to Administrative Templates \to System \to Internet Communication Management \to Internet Communication settings

0

- Find "Turn off printing over HTTP".
- Set it to Not Configured.
- Click OK → run gpupdate /force → restart if needed.

Status: Failed

Evidence:



6. Remediation with PowerShell Script

Ran the PowerShell script utilizing Windows PowerShell ISE.

```
Administrator Windows PowerShell SE

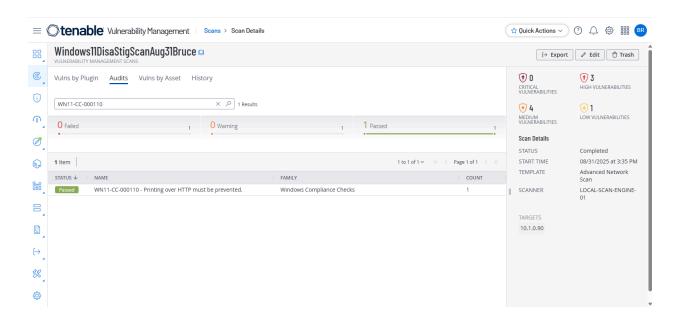
File Edit View Tools Debug Addoors Help

| See | See
```

Restarted and ran the scan again.

Status: Passed

Evidence:



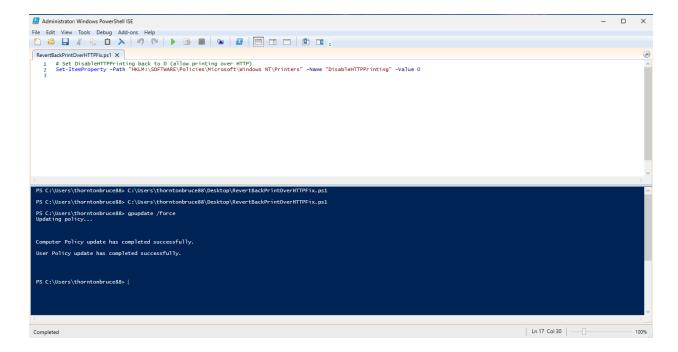
6a. Reintroduction of Finding (Undo Test through PowerShell Script):

Utilizing PowerShell ISE

To revert (non-compliant state):

Set DisableHTTPPrinting back to 0 (allow printing over HTTP)
Set-ItemProperty -Path "HKLM:\SOFTWARE\Policies\Microsoft\Windows NT\Printers" -Name
"DisableHTTPPrinting" -Value 0

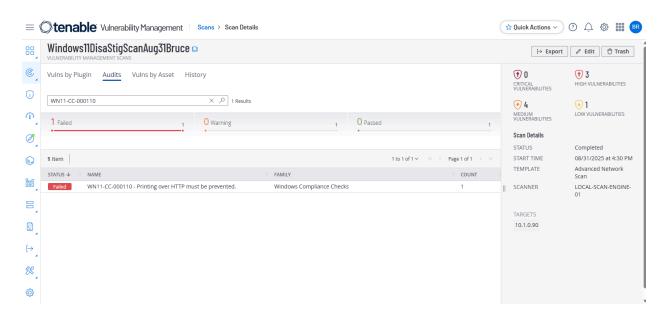
Run gpupdate /force and restart



Restart and scan again for verification.

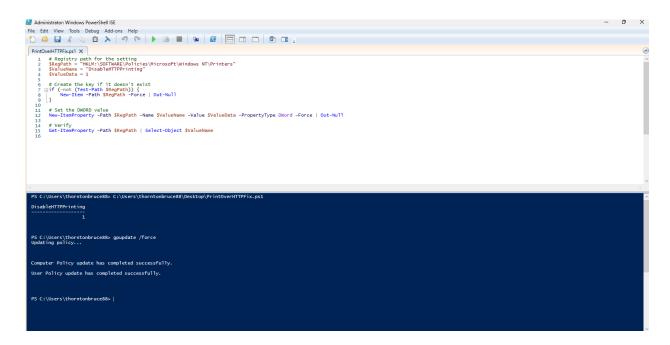
Status: Failed

Evidence:



6b. Remediation with PowerShell Script

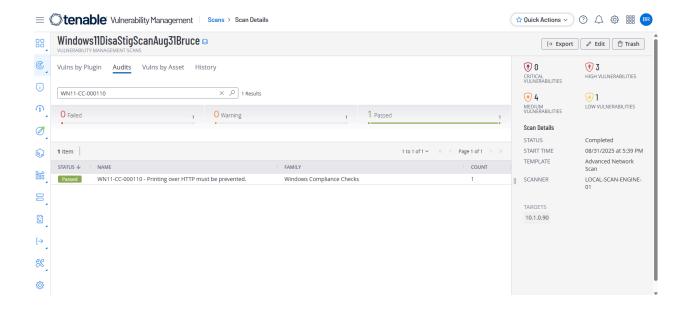
Ran the PowerShell script utilizing Windows PowerShell ISE. Final Remediation.



Also ran gpupdate /force, and restarted.

Status: Passed

Evidence:



7. Conclusion

The finding WN11-CC-000110 was successfully:

- Detected in an initial Tenable STIG Audit scan,
- · Remediated manually,
- Verified through a second scan,
- Undone and confirmed as vulnerable again,
- Finally re-applied through PowerShell automation, and validated with a third scan.

This demonstrates the ability to manage Windows STIG compliance both manually and through automation.