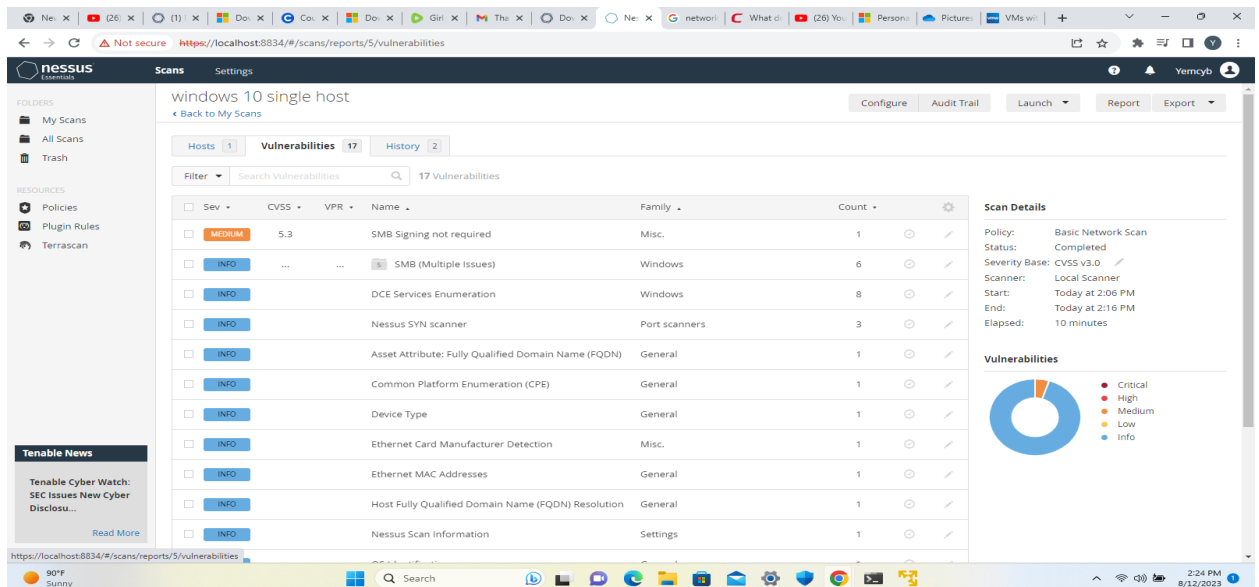


# Vulnerability Management Using Nessus Scanner

- Installed and configured Nessus Essentials to perform credentialed scans against windows 10 hosts
- Implemented Vulnerability Management on sandbox networks:  
Discover, Prioritize, Assess, Report, Remediate, Verify
- Ran a non credentialed scan on this network discovered 17 vulnerabilities



- Conducted a credentialed vulnerability scan with nessus scanner, discovered 39 vulnerabilities, credentialed scan gave us a deeper scan to help me find more harmful threats to the network.

Windows 10 Single Host / Mozilla Firefox (Multiple Issues)

[Back to Vulnerabilities](#)

Hosts 1 Vulnerabilities 39 Remediations 5 VPR Top Threats History

Search Vulnerabilities 141 Vulnerabilities

Sev	Name	Family	Count
<input type="checkbox"/> CRITICAL	Firefox < 14.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 15.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 16.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 16.0.1 Multipl...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 17.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 18.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 19.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 20 Multiple V...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 21.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 22.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 23.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 24.0 Multiple ...	Windows	1
<input type="checkbox"/> CRITICAL	Firefox < 25.0 Multiple ...	Windows	1

enable News

Qualifications Cyber

- Nessus software provided remediation recommendations to follow so vulnerabilities can decrease to eventually have a safer network.

Windows 10 Single Host

Back to My Scans

Hosts 1 Vulnerabilities 39 Remediations 5 VPR Top Threats History

Search Actions 5 Actions

Action	Vulns
Mozilla Firefox < 93.0: Upgrade to Mozilla Firefox version 93.0 or later.	1451
Microsoft Edge (Chromium) < 95.0.1020.30 Multiple Vulnerabilities: Upgrade to Microsoft Edge version 95.0.1020.30 or later.	181
Security Update for Windows Defender (August 2021): Enable automatic updates to update the malware engine for the relevant antimalware applications. Refer to Knowledge Base Article 2510781 for information on how to verify that MMPE has been updated.	9
Install KB5006670	6
Security Update for Forefront Endpoint Protection (June 2021): Enable automatic updates to update the malware engine for the relevant antimalware applications. Refer to Knowledge Base Article 2510781 for information on how to verify that MMPE has been updated.	4

- Implemented remediation strategy by running windows update and uninstalling old version of firefox. After remediating the vulnerabilities I rescanned the sandbox network vulnerabilities went down to 6.

nessus Scans Settings

windows 10 single host

Back to My Scans

Hosts 1 Vulnerabilities 6 History 1

Filter Search Vulnerabilities 6 Vulnerabilities

Sev	CVSS	VPR	Name	Family	Count	Settings
INFO			Asset Attribute: Fully Qualified Domain Name (FQDN)	General	1	ⓘ ✓
INFO			Ethernet Card Manufacturer Detection	Misc.	1	ⓘ ✓
INFO			Ethernet MAC Addresses	General	1	ⓘ ✓
INFO			Host Fully Qualified Domain Name (FQDN) Resolution	General	1	ⓘ ✓
INFO			Nessus Scan Information	Settings	1	ⓘ ✓
INFO			Traceroute Information	General	1	ⓘ ✓

Scan Details

Policy: Basic Network Scan  
Status: Completed  
Severity Base: CVSS v3.0  
Scanner: Local Scanner  
Start: Today at 12:23 PM  
End: Today at 12:36 PM  
Elapsed: 13 minutes

Vulnerabilities

86°F Sunny 12:40 PM 8/12/2023

- In this lab with a nessus scanner I introduced a remediation process to deal with vulnerabilities stemming from old versions of windows as well as third party software in this case being firefox. In this lab, I removed over 30 vulnerabilities on the network optimizing the nessus Scanner to identify security flaws on potential critical systems.