

Vulnerability Assessment Report – Task 3

1. Executive Summary

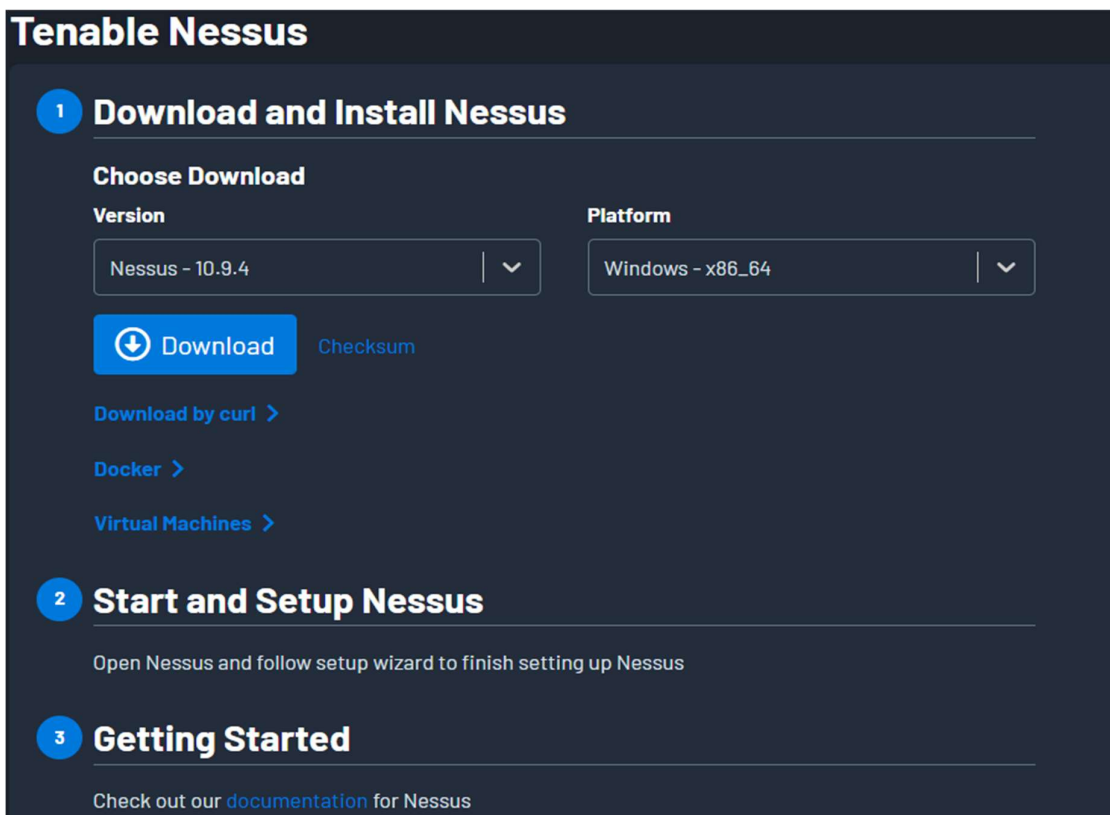
A basic vulnerability scan was performed on the local machine using Nessus Essentials. The scan identified **X vulnerabilities** (Critical: Y, High: Z, Medium: W, Low: V). The report summarizes the issues, their potential impact, and recommended remediation steps.

2. Scope of Work

- **Target:** Machine IP
- **Tool Used:** Nessus Essentials
- **Scan Type:** Full System Vulnerability Scan
- **Scan Date:** [25/09/2025]

3. Methodology

1. Installed and configured the vulnerability scanner.



2. Defined the target as the local machine IP.

Vuln Scan / Configuration

[Back to Scan Report](#)

Settings | Credentials | Plugins

BASIC

- General
- Schedule
- Notifications

DISCOVERY

ASSESSMENT

REPORT

ADVANCED

Name: Vuln Scan

Description: Find out vulnerabilities in local system

Folder: My Scans

Targets: 192.168.197.1

Upload Targets [Add File](#)

[Save](#) [Cancel](#)

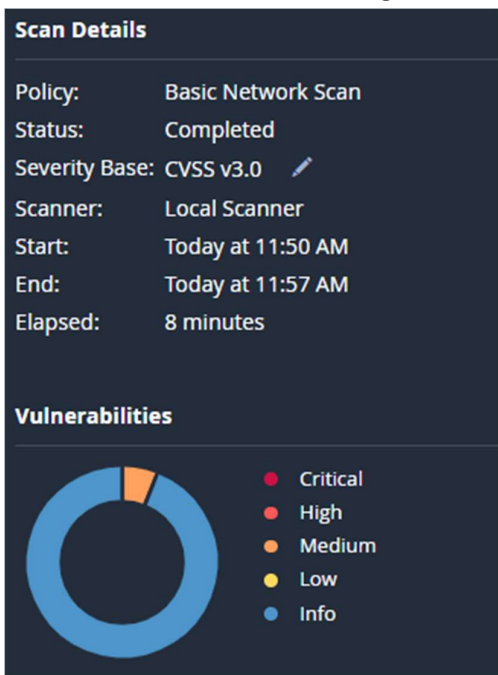
3. Performed a **full scan** to identify vulnerabilities.

Hosts 1 | Vulnerabilities 24 | History 1

Search History 1 History

Start Time	Last Scanned	Status
<input type="checkbox"/> Current Today at 11:50 AM	Today at 11:58 AM	✓ Completed ✗

4. Collected scan results and categorized vulnerabilities.



5. Documented the most critical vulnerabilities. (include in findings)

Vuln Scan

[Configure](#)[Audit Trail](#)

[Back to My Scans](#)

Hosts 1

Vulnerabilities 24

History 1

Filter

Search Vulnerabilities

24 Vulnerabilities

<input type="checkbox"/>	Sev	CVSS	VPR	EPSS	Name	Family	Count		
<input type="checkbox"/>	MEDIUM	5.3			SMB Signing not required	Misc.	1		
<input type="checkbox"/>	MIXED	...	...	...	SSL (Multiple Issues)	General	4		
<input type="checkbox"/>	INFO	...	...	...	SMB (Multiple Issues)	Windows	6		
<input type="checkbox"/>	INFO	...	...	...	HTTP (Multiple Issues)	Web Servers	2		
<input type="checkbox"/>	INFO	...	...	...	Microsoft Windows (Multiple Issues)	Windows	2		
<input type="checkbox"/>	INFO	...	...	...	TLS (Multiple Issues)	Service detection	2		
<input type="checkbox"/>	INFO				Netstat Portscanner (SSH)	Port scanners	34		
<input type="checkbox"/>	INFO				DCE Services Enumeration	Windows	8		

4. Findings

Vuln-Id: 001

Vuln-Name: SMB signing not required

Severity: Medium

CVSS: 5.3

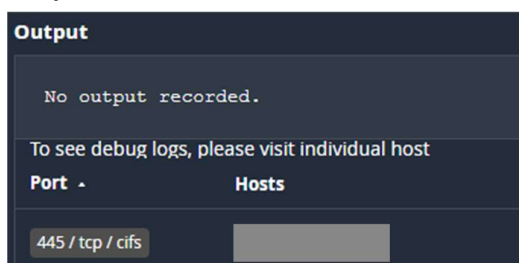
Description

Signing is not required on the remote SMB server. An unauthenticated, remote attacker can exploit this to conduct man-in-the-middle attacks against the SMB server.

Remediation

Enforce message signing in the host's configuration. On Windows, this is found in the policy setting 'Microsoft network server: Digitally sign communications (always)'. On Samba, the setting is called 'server signing'. See the 'references' links for further details.

Output



References

<http://www.nessus.org/u?df39b8b3>

<http://technet.microsoft.com/en-us/library/cc731957.aspx>

<http://www.nessus.org/u?74b80723>

<https://www.samba.org/samba/docs/current/man-html/smb.conf.5.html>

<http://www.nessus.org/u?a3cac4ea>

Other Vulns Severity Level (Info)

<input type="checkbox"/>	INFO	...	...	...	5	SMB (Multiple Issues)	HTTP (Multiple Issues)	Windows	6	🔄	✎
<input type="checkbox"/>	INFO	...	...	...	2	HTTP (Multiple Issues)		Web Servers	2	🔄	✎
<input type="checkbox"/>	INFO	...	...	...	2	Microsoft Windows (Multiple Issues)		Windows	2	🔄	✎

7. Remediation Plan for Endpoint Security

- 1) Apply security patches for outdated software.
- 2) Disable legacy services (like SMBv1, weak ciphers).
- 3) Regularly update OS and applications.
- 4) Schedule monthly vulnerability scans.

8. Conclusion

The scan revealed multiple vulnerabilities ranging from low to critical severity. Addressing these issues will significantly improve the security posture of the system. Regular vulnerability scans, combined with timely patching, are recommended.