Executive Summary

Objective of the Audit

 The purpose of this audit was to assess the credentialed Vulnerability Scan of Nswell and identify any vulnerabilities that could pose risk to confidentiality, integrity and availability.

Summary of Findings

• Total Vulnerability Detected: 22

• Critical Issues: 2 Medium, Mixed 4, All Info

• **Key Risk Areas**: SMB sever breach, Plugin SSL related attempts, all though risk factor is none there are a lot of open ports, more than 22 ports.

• Overall Security Rating: Medium

Key Findings and Risk Analysis

Vulnerability	Severity	Impact	Recommendation
SMB Signing not	Medium	System is at risk of	Enforce message
required		remote attacker	signing on the
			Microsoft network
			server
SSL Certificate	Medium	any break in the	Purchase or
cannot be trusted		chain makes it more	generate a proper
		difficult for users to	SSL certificate for
		verify the	this service.
		authenticity and	
		identity of the web	
		server	
Plugin SSL attempts	Low	Attempts to extract	Recommend
		and dump the X.509	classification with
		certificates 22 times	machine learn and
			algorithm from host
			and another ID.
			Transactions will be
			secured.

Recommendation & Next Steps

Critical Fixes

Immediate action to enforce message signing on the Microsoft network server

• Purchase or generate a proper SSL certificate for this service immediately.

Introduction of Classification of machine learning and generating algorithms during

transactions process, to establish authentic transactions and communications

between two ends.

• Fix the problem(s) so that OS Security Patch Assessment is possible.

Long Term Security Improvement

Regular security audit every 3 months

• Train employees in cybersecurity and internet of things including machine learning

best practices

Implement hardening of network systems.

Conclusion

This IT Audit identified 22 vulnerabilities including medium issues which require immediate

action. Addressing these risks will significantly improve the system security posture and

reduce the likelihood of a cyber-attack.

Final Risk Rating: Medium

Next Audit: May 2025