Task 3

Basic Vulnerability scan on personal computer

Introduction:-

This repository documents a practical vulnerability assessment performed on a personal computer using Nessus Essentials. It showcases how to identify, analyze, and understand system vulnerabilities from a beginner's perspective.

🖥️ Overview:-

Vulnerability scanning is a critical part of cybersecurity. It helps identify known weaknesses that could be exploited by attackers. In this project, a full vulnerability scan was run on the local system (localhost) using the free version of Nessus Essentials to discover potential threats and understand their severity.

🎯 Objective

To perform a basic vulnerability scan on a local machine.

To identify and document critical vulnerabilities.

To suggest basic remediations.

To gain hands-on experience in vulnerability assessment.

🛠️ Tools Used

TooL	Description
Nessus Essentials	Free vulnerability scanner by
Localhost / 127.0.0.1	The target system this PC)

Browser To access Nessus dashboard (https://santhohex:8834)

🧪 Task Steps

1.Installed Nessus Essentials and activated it using the free license key.

2.Configured a new scan targeting the local IP address (127.0.0.1).

3.Executed a basic network scan.

4.Waited 45 minutes for scan completion.

5.Analyzed the vulnerability report and filtered high/critical issues.

6.Researched fixes for each vulnerability.

7.Documented the findings, solutions, and screenshots in a detailed report.

💼 Key Findings (Summary)

Vulnerability	Severity	CVE ID	CVSS Score	Fix
1.SMB Signing not required	High	CVE-2017-0143	8.1	Enforce SMB signing
2.Outdated Firefox Version	Medium	CVE-2023-5381	6.5	Update Firefox

3.SSL/TLS

Weak Ciphers

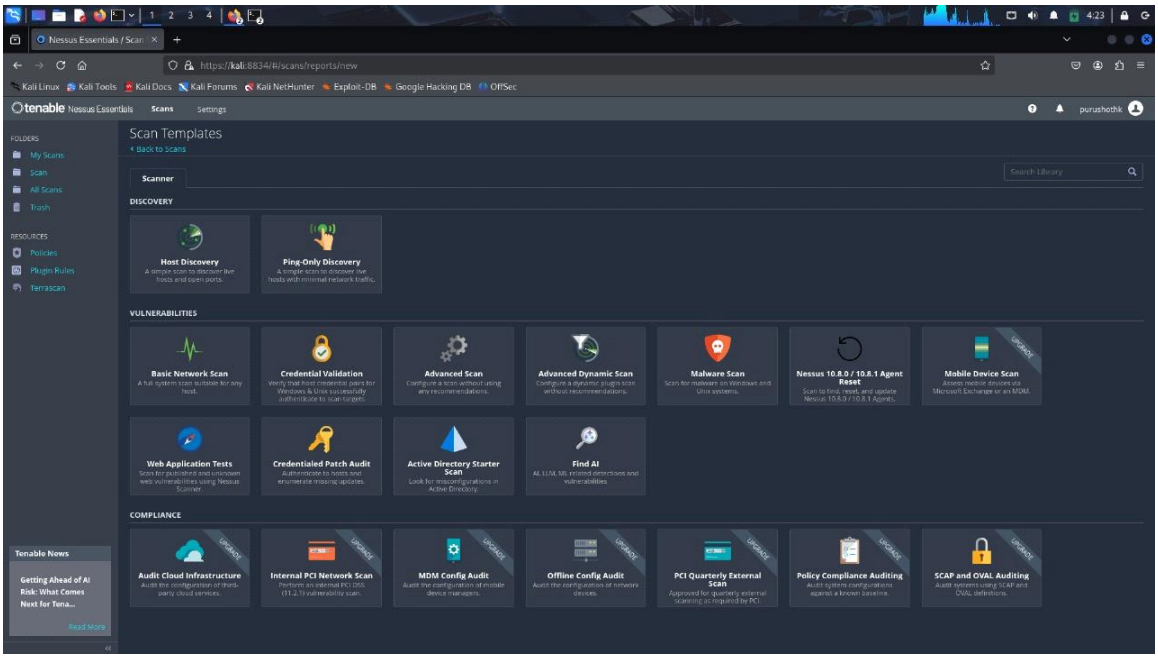
Supported Medium CVE-2016-2183 5.9 Disable weak SSL protocols

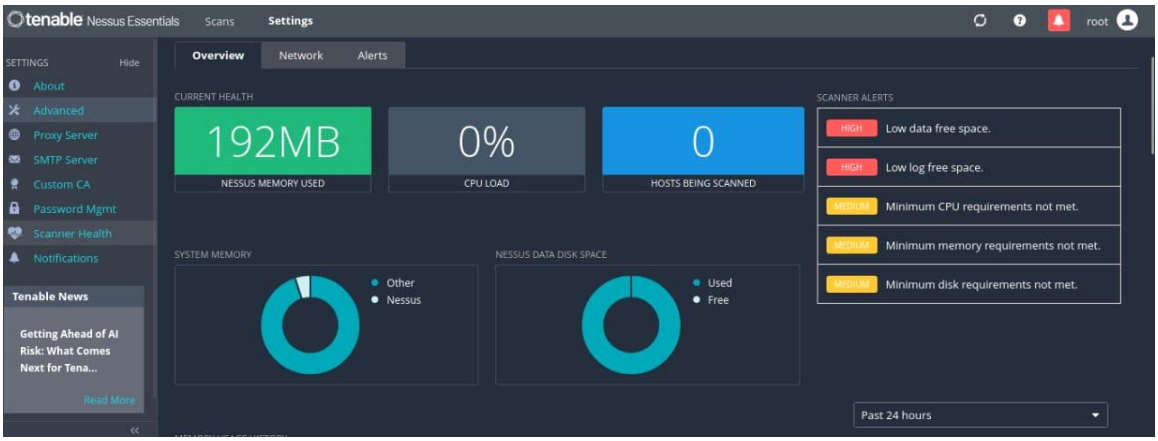
4.ICMP

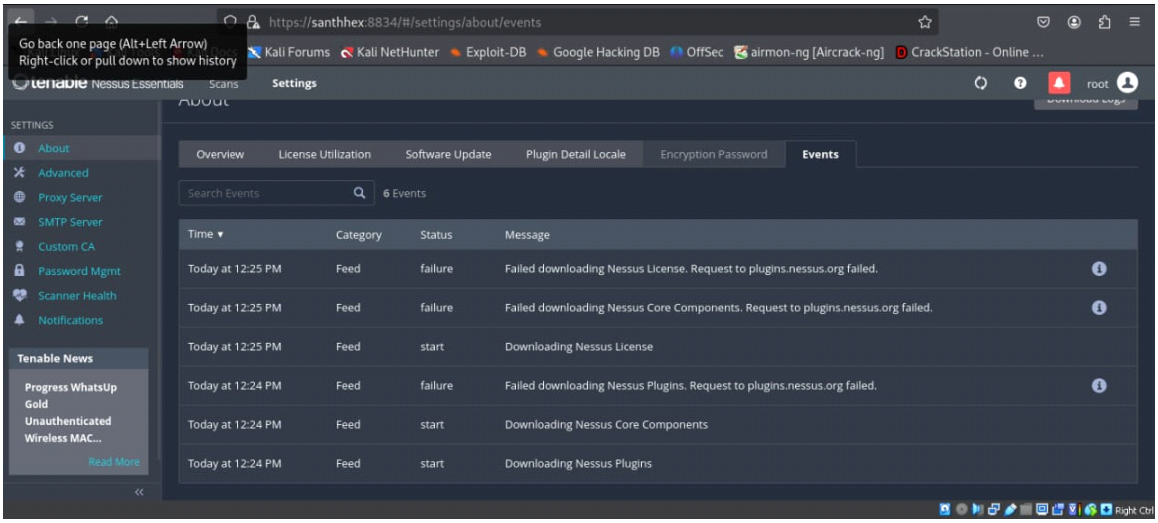
Timestamp

Response Info - - Disable ICMP timestamp replies via firewall

Screenshots








```
┌──(root㉿SanthHex)-[~/Tools/Nessus]
└─# systemctl status nessusd
● nessusd.service - The Nessus Vulnerability Scanner
     Loaded: loaded (/usr/lib/systemd/system/nessusd.service; disabled; preset: disabled)
     Active: active (running) since Thu 2025-05-29 14:38:17 EDT; 20s ago
 Invocation: 25db893e34fd491396d4b931a31e1b8b
   Main PID: 7336 (nessus-service)
      Tasks: 6 (limit: 9388)
     Memory: 52.7M (peak: 53.1M)
        CPU: 3.135s
     CGroup: /system.slice/nessusd.service
             ├─7336 /opt/nessus/sbin/nessus-service -q
             └─7339 nessusd -q

May 29 14:38:17 SanthHex systemd[1]: Started nessusd.service - The Nessus Vulnerability Scanner.
```