

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
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1.SMB Signing

not required SMB signing	High	CVE-2017-0143	8.1	Enforce
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2.Outdated

Firefox

Version	Medium	CVE-2023-5381	6.5	Update Firefox
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3.SSL/TLS

Weak Ciphers

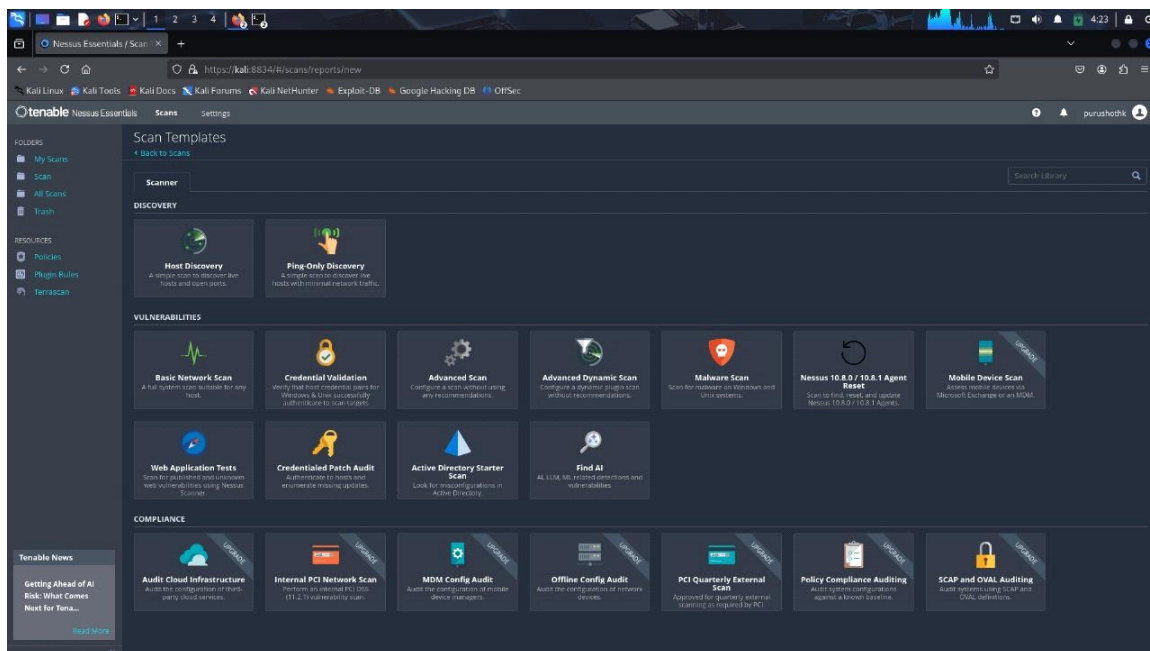
Supported Medium CVE-2016-2183 5.9 Disable weak
SSL protocols

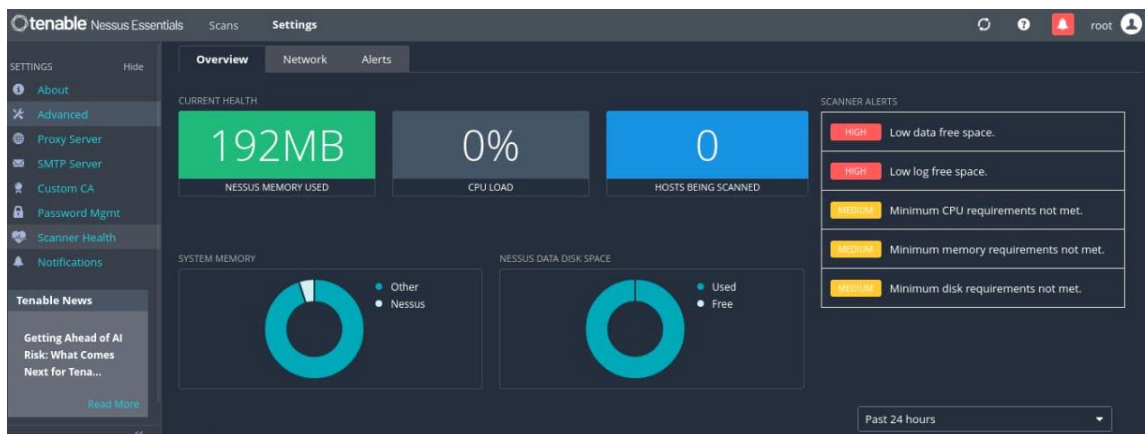
4.ICMP

Timestamp

Response Info - - Disable ICMP timestamp replies
via firewall

Screenshots





Go back one page (Alt+Left Arrow)
Right-click or pull down to show history

https://santhex:8834/#/settings/about/events

tenable Nessus Essentials Scans Settings

SETTINGS

- About
- Advanced
- Proxy Server
- SMTP Server
- Custom CA
- Password Mgmt
- Scanner Health
- Notifications

Tenable News

Progress WhatsUp Gold
Unauthenticated Wireless MAC...
[Read More](#)

Overview License Utilization Software Update Plugin Detail Locale Encryption Password **Events**

Search Events 6 Events

Time	Category	Status	Message
Today at 12:25 PM	Feed	failure	Failed downloading Nessus License. Request to plugins.nessus.org failed.
Today at 12:25 PM	Feed	failure	Failed downloading Nessus Core Components. Request to plugins.nessus.org failed.
Today at 12:25 PM	Feed	start	Downloading Nessus License
Today at 12:24 PM	Feed	failure	Failed downloading Nessus Plugins. Request to plugins.nessus.org failed.
Today at 12:24 PM	Feed	start	Downloading Nessus Core Components
Today at 12:24 PM	Feed	start	Downloading Nessus Plugins

```
(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.
```

