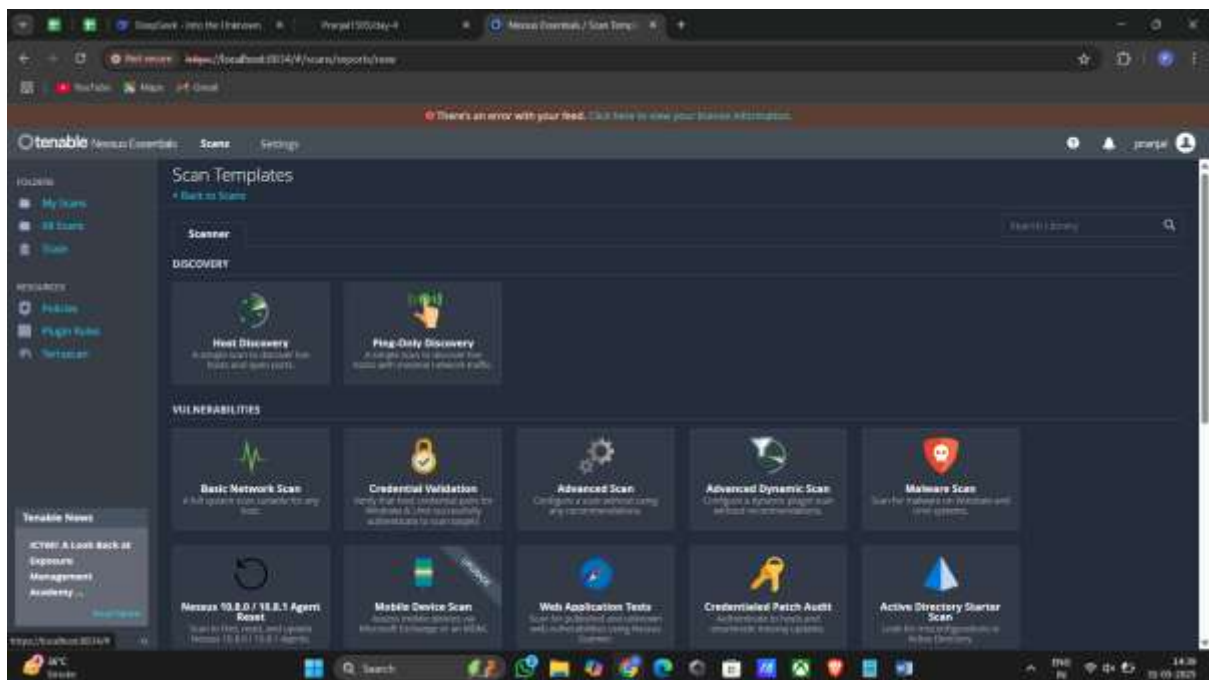
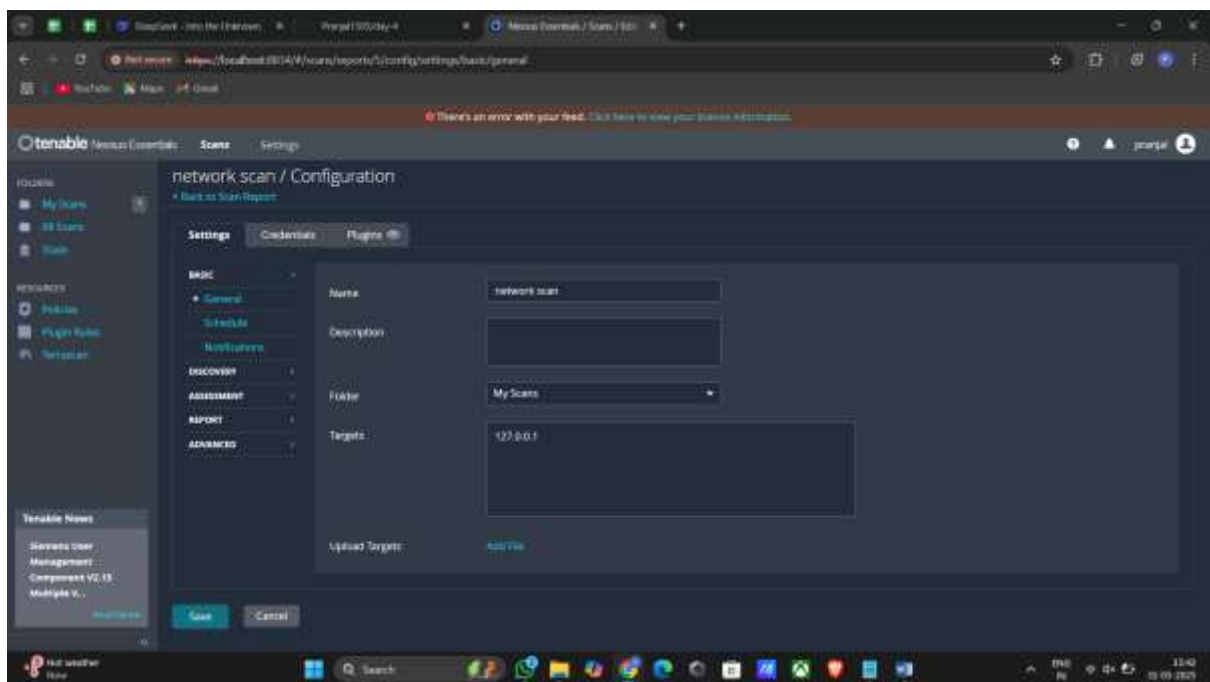
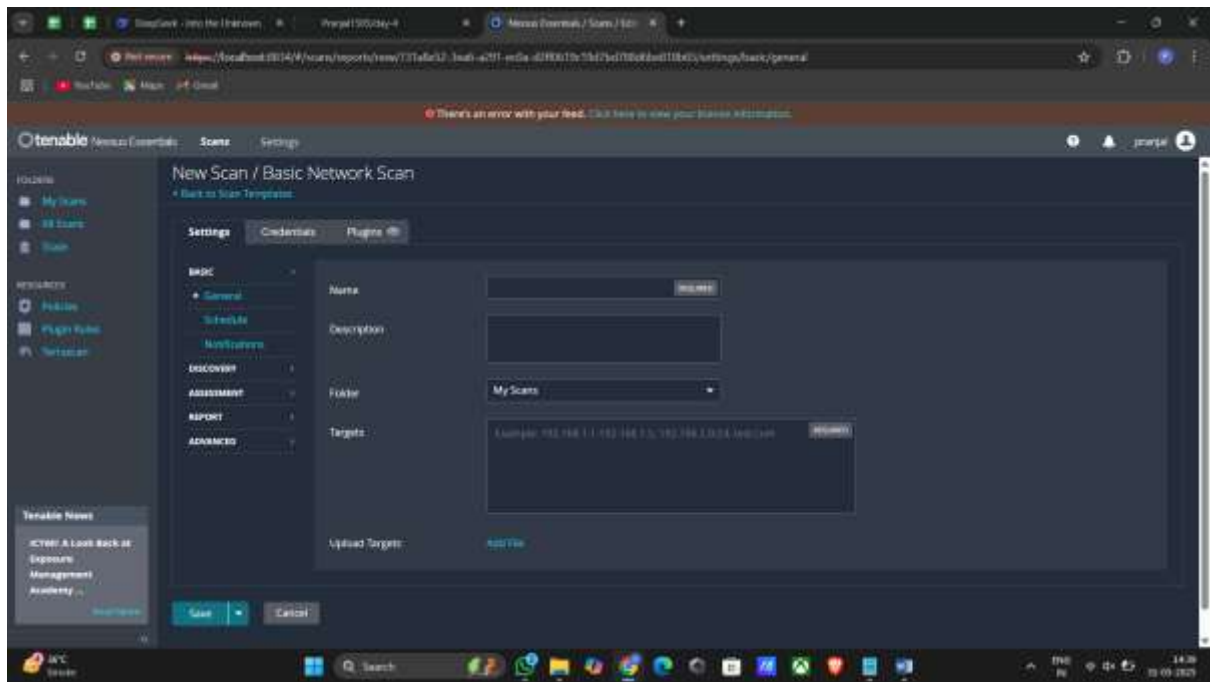
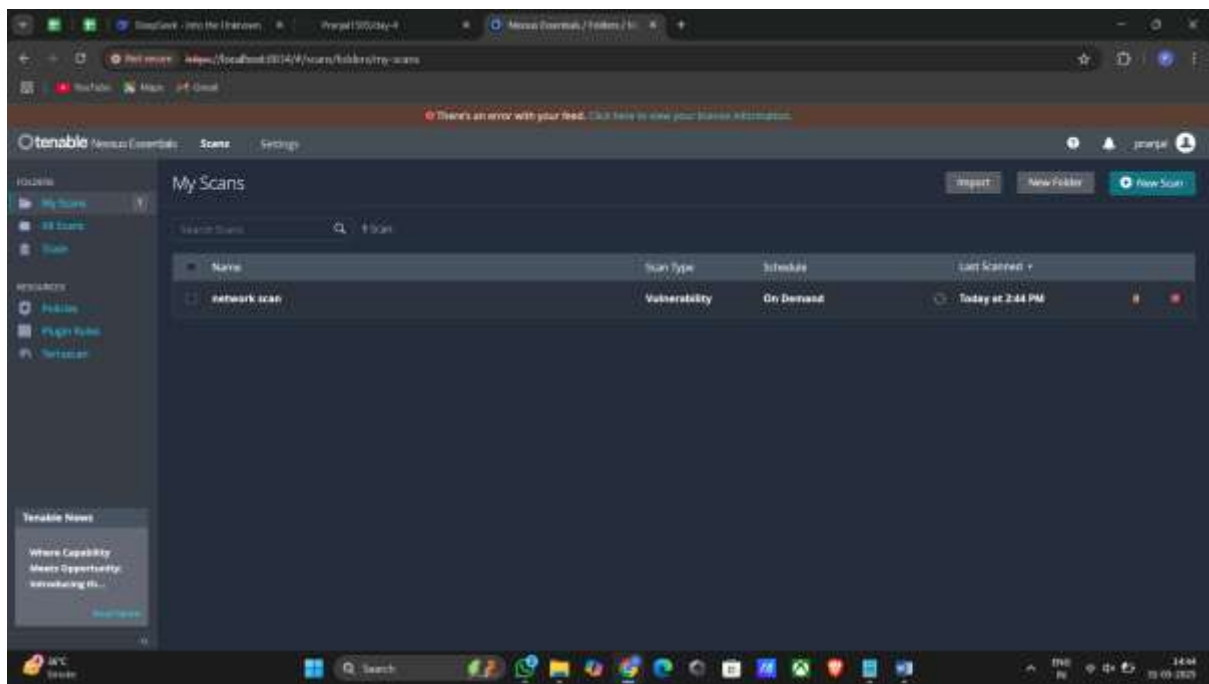


Task 3 : Perform a Basic Vulnerability Scan on Your PC

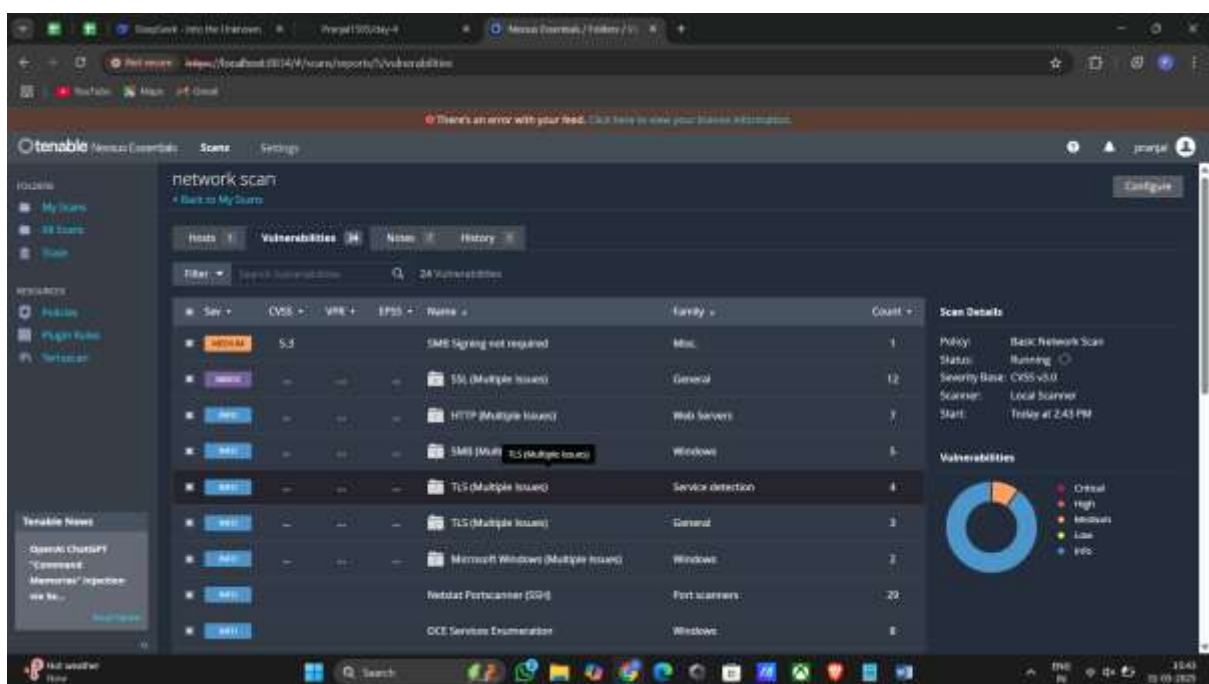
- **Objective:** Use free tools to identify common vulnerabilities on your computer.
- **Tool Used:** Nessus Essentials
- **Steps :**
 - Install Nessus Essentials
 -
 - Click "New Scan" → "Basic Network Scan"
 -
 - Name your scan
 -
 - In "Targets" enter 127.0.0.1 for local scan
 -
 - Click "Save" then "Launch"

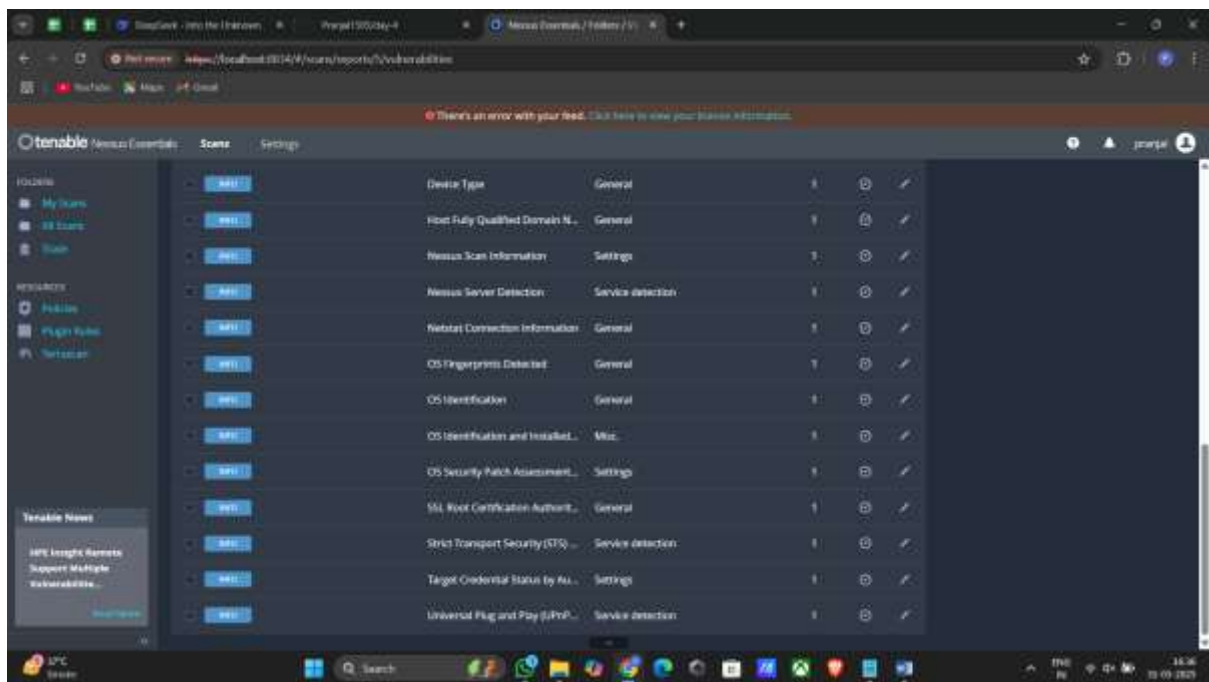
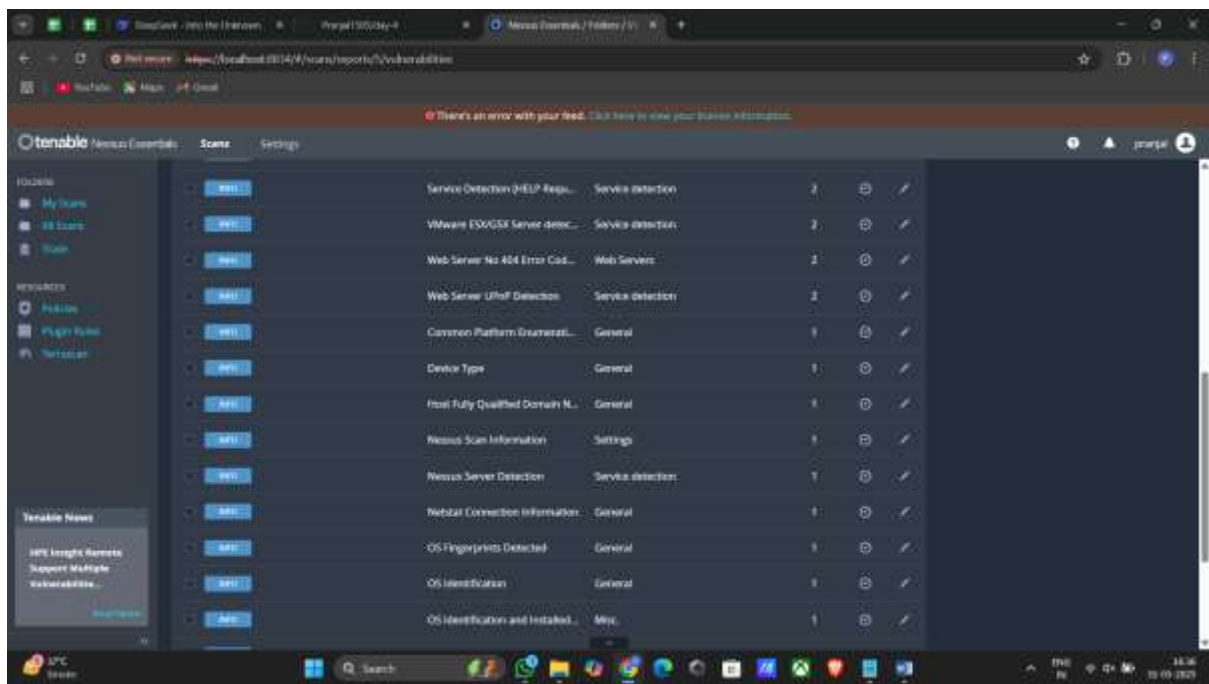






- Problems Found :





1. **SMB Signing Not Required**
 - Hackers can intercept file-sharing traffic.
2. **Weak TLS/SSL Encryption**
 - Unsafe internet connections.
3. **Outdated Windows/Software**
 - Missing security patches.
4. **Server Information Leak**

- PC reveals too much about itself.

5. Unnecessary Services Running

- Extra doors for hackers to try.

• How I Fixed Them

1. SMB Signing Enabled

- Went to Group Policy Editor (gpedit.msc)
- Turned on "Always digitally sign communications" for both client and server
- Restarted computer

2. Weak TLS/SSL Fixed

- Used IISCrypto
- Selected "Best Practices" and applied
- Restarted computer

3. Disabled Dangerous SMBv1

- Opened Windows Features
- Unchecked "SMB 1.0/CIFS"
- Restarted computer

4. Updated Everything

- Ran Windows Update
- Updated Java, Adobe, and other programs
- Restarted when needed

5. Hid Server Information

- Edited applicationHost.config file
- Removed "Server" and "X-Powered-By" headers
- Restarted IIS

6. Turned Off Unused Services

- Opened Services (services.msc)
- Disabled Telnet, FTP, and Remote Registry