INNO BLITZ HACKATHON 1.0

Vulnerability Scanner with Exploit Check

- Problem Statement Title Student Innovation
- Theme- Blockchain & Cybersecurity
- PS Category- Software
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Web-Prowler

Student Innovation

Purpose: A robust tool for web security assessment.

Key Features:

- ❖ Analyzes open ports, services, and vulnerabilities using Nmap and Tor.
- ❖ Accepts server IPs to scan websites for vulnerabilities.
- Cross-references data with Exploit Database for accurate reports.
- ❖ Stealth Scan: Uses Tor to reduce detection.
- Customizable Scans: Interactive menu for tailored assessments.

Use Cases:

Ideal for **business security checks** and **cybersecurity** professionals.





TECHNICAL APPROACH



Working:

- The script uses NMAP to scan the open ports in a target ...
- Gains the **version and service info** that is used on that particular open port.
- Compares the version number with exploit database
- List out the vulnerabilities to gain access over the server.



Tools Used:

Nmap



Nslookup



Exploit DB



Tor









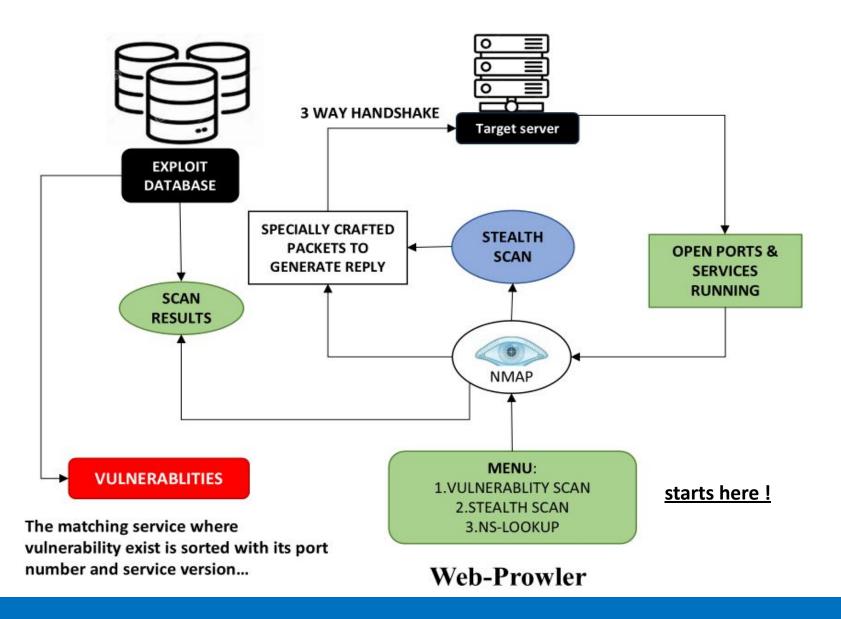
SIMULATING ATTACK ON A SECURE SERVER(google.com)



- The ports are open
- but the server remains safe



Flowchart





IMPACT AND BENEFITS



Impact on the Target Audience

- Risk Management: Helps businesses identify vulnerabilities to secure networks.
- Operational Impact: Automates scanning and reporting, saving time for IT teams.
- Simple Interface: Easy to use, allowing anyone to perform scans regardless of their technical background.
- **Customizable and Scalable**: Can be tailored to specific business needs and integrated with other tools.

Benefits of the Solution

- **EASE OF ACCESS:** Cyber security is a basic necessity, Even a common man can asses his website's security with our script & and fix them.
- **PRICING**: Compared to the existing solution this is by far the affordable option and closes the market gap.
- Unmatched in Market: No existing solution matches the robustness and comprehensive features of WEB-PROWLER



BUSINESS PLAN



Current Problem:

- Scanning tools often lack detailed risk assessment and exploit checks.
- Reporting is frequently inadequate, creating security gaps.



Market Gap:

- Need for a user-friendly tool that combines deep scanning with real-time exploit identification.
- Existing tools fail to balance scan speed, depth, and clarity of risk levels.



Web-Prowler's Solution:

- Scans: Quick, Full, and Stealth modes.
- Features: Real-time risk and exploit analysis.
- Reports: Clear and accessible for fast decision-making.
- Post-Fix: A set of scripts that mitigates the found Vulnerabilities



Target Users:

- Global Cybersecurity Market: Expected to grow from \$217 billion (2021) to \$345 billion by 2026.
- **SMBs as Key Market:** 43% of cyberattacks target SMBs, highlighting the need for affordable security tools like WEB-PROWLER.



RESEARCH AND REFERENCES



Target Users /customers:

- Business owners
- Security professionals
- It managers
- System administrators
- Students & Researchers



Research:

- 1) <a href="https://www.researchgate.net/publication/261182006_Vulnerability_Scanners-A_Proactive_Approach_To_Assess_Web_Application_Security_Nulleting_Networks_Null
- 2) https://www.researchgate.net/publication/362137419 Vulnerability Scanning