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VigilBoard API Documentation

What is VigilBoard:

VigilBoard is a lightweight vulnerability scanner that is designed to be a user-friendly network scanner that scans the ports of a url or IP address. Users must create an account within the application to use VigilBoard. VigilBoard contains three scans signified by three radio buttons: “Perform Security Scan”, “Vulners Scripting Scan”, and “Vuln Scripting Scan”. Once a scan is complete, output is shown both in the VigilBoard output window as well as in an HTML file that will both be written into the main folder and will automatically open in your default browser once the scan is complete. Links will be provided in the HTML output for any vulnerabilities found to further describe and explain the specific vulnerability so that qualified technicians or experts can resolve vulnerabilities.

Warning: None of these scans should be performed on any network or system or website that you do not have permission to scan, and no single scan should be performed unless you have permission to perform that scan.

What does each scan do?:

Perform Security Scan: Simply scans the system for open ports, shows the services running on these ports, and performs and displays an Operating System fingerprinting test.

Vulners Scripting Scan: This scan relies on the Vulners vulnerability database (https://vulners.com) to check the given address for known vulnerabilities.

Vuln Scripting Scan: This scan is a more active penetration scan that will attempt to find further vulnerabilities in your system and could possibly crash a vulnerable system.

Platforms:

VigilBoard is currently only designed to be fully functional with Windows operating systems.

Dependencies:

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VigilBoard requires an installation of Nmap for Windows, which can be found at this link: https://nmap.org/download.html#windows

Installation and Execution:

Simply download both vigilboardmain.zip.001 and vigilboardmain.zip.002 from the GitHub repository: https://github.com/chancec101/VigilBoard/tree/main/CurrentReleases , and then extract the files using a decompression tool such as WinRar or 7zip. Locate the folder vigilboardmain and run the file vigilboardmain.exe.

Tools and Libraries Used:

VigilBoard relies on tkinter, nmap for python, boto3, botocore, and hmac. These are not required to be installed by the user as they are already packaged in the release package.

Credits and Creation:

VigilBoard was created by William Mahoney, David Abbot, Isaac Bamidele, and Chance Currie with the guidance of Dr. Pradhumna Shrestha as a capstone project for the completion of Cybersecurity Bachelor degrees at the University of North Texas.