

Elective 5: Quiz 1

Base on the findings from Activity 3 – Reconnaissance:

1. Identify each problem that was encountered during scanning activity.
 - a. Limited Results
 - b. IP Blocking
 - c. CAPTCHA Challenges
2. Give solutions to the problems that was identified during the scanning/survey activity for each Domain/DNS/Website.
 - a. Verify that the target domain is valid and publicly accessible. Also, check if the data source is blocking my request due to rate limiting.
 - b. Use proxies to distribute requests across multiple IP addresses. Also, you can use alternative data sources that are less restrictive.
 - c. Use multiple data sources in theHarvester to gather more comprehensive data. Or manually investigate the results to filter out false positives.
3. Justify your answer provide supporting documents, research, and application to your solutions.
 - a. <https://github.com/laramies/theHarvester/issues> - This is the official GitHub repository for **theHarvester**, where users report bugs, request features, and discuss common problems. It's a valuable resource for troubleshooting and understanding limitations of the tool.
 - b. https://www.researchgate.net/publication/324120543_Community-Based_Management_of_Acute_Malnutrition_to_Reduce_Wasting_in_Urban_Informal_Settlements_of_Mumbai_India_A_Mixed-Methods_Evaluation - This is a research paper on community-based approaches to managing malnutrition in urban informal settlements. While unrelated to theHarvester or DNS scanning, it highlights the importance of community-driven solutions in public health.
 - c. <https://developer.shodan.io/api> - The official documentation for Shodan's API, which provides access to internet-connected device data. It includes details

on rate limits, query syntax, and authentication, which are relevant when using Shodan with tools like theHarvester.

- d. <https://hunter.io/api> - The official API documentation for Hunter.io, a tool for finding email addresses associated with a domain. It explains how to use the API, including authentication, rate limits, and query parameters, which are useful for integrating with theHarvester.
- e. <https://forums.kali.org/> - The official forums for Kali Linux users, where community members discuss tools, troubleshooting, and best practices. It's a great place to seek help for issues related to theHarvester or other Kali tools.
- f. <https://developers.google.com/recaptcha/docs/versions> - Google's official documentation for reCAPTCHA, a system designed to prevent automated scraping and bot activity. It explains how CAPTCHAs work and how they can impact tools like theHarvester when scraping search engines.