

Cyber Security Lab 4: Forensic Analysis of Logfiles Using Python.

Due 5 June 2024.

This is a Group Lab.

Software needed

PyCharm or any other IDE of choice

Description

1. Define Predefined Criteria:

- Before writing the Python code, browse through the log file and record predefined criteria that indicate suspicious activity, and store in a file. Examples of predefined criteria include:
 - Multiple failed login attempts (e.g., HTTP status code 401).
 - Access to sensitive directories or files (e.g., "/admin", "/wp-admin", "/phpmyadmin").
 - Unusual user-agent strings (e.g., non-standard or uncommon user-agents).

2. Iterate Through Log Entries:

- Use a loop to iterate through each entry in the access log file.
- For each entry, extract relevant information such as IP address, requested URL, response code, and user-agent.

3. Apply Predefined Criteria:

- Implement conditional statements to check if the extracted data meets the predefined criteria for suspicious activity.
- For example:

