**Documentation of logParser.py**

Waleed Nasr

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EXECUTIVE SUMMARY

An intern developer testing specialist has been asked to write a program that can both parse and consolidate information in the log file. The solution is explored to be able to handle this data as well as any other discrepancies that may exist in this log file, or future log files that we use your program to parse. The main sections of this report include the procedures, which explore the process, and conclusions sections, which explores suggestions.

# BUSINESS SCENARIO

Company x wants to develop a script that can parse through logs to find any irregularities such as DOS attacks. The script should be capable/adhere of doing the following:

* Handle messy, raw log files
* Ability to easily reused for other types of logs
* Outputs data for future use
* Analyze DOS attacks
* Must be written in any modern language (possibilities: Python, C, C#)

The required tools for the project are Visual Studio Code and GitHub. Please check appendix A for out put file samples. The following noted where taken during the meeting:

The log file consists of individual messages that are either being sent to the target or being received from the target. It is a requirement that the target responds within a certain timeframe in order to pass our tests. In other words, if an instrumentation attempt isn’t immediately followed by a response, a Denial of Service (DoS) failure is present. The way the DoS time is calculated is by taking the difference between the time that the original request was sent and when the target responded. Some examples from the log are shown below for verification.

Example:

Test case #5 – DoS time is 0:00:20.414

Test case #415 – DoS time is 0:00:20.405

Test case #1395 – DoS time is 0:00:06:070

# PROCEDURES

This section will cover in detail how logParser.py operates. Each section will discover a function in the script. Look at figure 1 for the general layout of logParser.py.

Diagram

Description automatically generated

Figure . logParser.py

# RESULTS

# CONCLUSIONS AND RECOMMENDATIONS

# REFRENCES