TASK 4: LOG ANALYSIS TOOLS USING LINUX COMMAND LINE

TASK 5: LOG ANALYSIS USING REGULAR EXPRESSIONS

TASK 6: LOG ANALYSIS USING CYBERCHEF

TASK 7: LOG ANALYSIS TOOLS: YARA AND SIGMA

Answer the questions below	
What's the term for a consolidated chronological view of logged events from diverse sources, often used in log analysis and digital forensics?	
Super Timeline	✓ Correct Answer
Which threat intelligence indicator would 5b31f93c09ad1d065c0491b764d04933 and 763f8bdbc98d105a8e82f36157e98bbe be classified as?	
File Hashes	✓ Correct Answer
What is the default file path to view logs regarding HTTP requests on an Nginx server?	
/var/log/nginx/access.log	✓ Correct Answer
A log entry containing %2E%2E%2F%2E%2E%2Fproc%2Fse1f%2Fenviron was identified. What kind of attack might this infer?	
Path Traversal	✓ Correct Answer
A log file is processed by a tool which returns an output. What form of analysis is this?	
Automated	✓ Correct Answer
An analyst opens a log file and searches for events. What form of analysis is this?	
Manual	✓ Correct Answer
Use cut on the apache.log file to return only the URLs. What is the flag that is returned in one of the unique entries?	
c701d43cc5a3acb9b5b04db7f1be94f6	✓ Correct Answer
In the apache.log file, how many total HTTP 200 responses were logged?	
52	✓ Correct Answer
In the apache.log file, which IP address generated the most traffic?	
145.76.33.201	✓ Correct Answer
What is the complete timestamp of the entry where 110.122.65.76 accessed /login.php?	
31/Jul/2023:12:34:40 +0000	✓ Correct Answer
How would you modify the original grep pattern above to match blog posts with an ID between 20-29?	
post=2[0-9]	✓ Correct Answer
What is the name of the filter plugin used in Logstash to parse unstructured log data?	
Grok	✓ Correct Answer

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Locate the "loganalysis.zip" file under /root/Rooms/introloganalysis/task8 and extract the contents.	
No answer needed	✓ Correct Answer
Upload the log file named "access.log" to CyberChef. Use regex to list all of the IP addresses. What is the full IP address beginning in 212?	
212.14.17.145	✓ Correct Answer
Using the same log file from Question #2, a request was made that is encoded in base64. What is the decoded value?	
THM{CYBERCHEF_WIZARD}	✓ Correct Answer
Using CyberChef, decode the file named "encodedflag,txt" and use regex to extract by MAC address. What is the extracted value?	
08-2E-9A-4B-7F-61	✓ Correct Answer
What languages does Sigma use?	
YAML.	✓ Correct Answer
What keyword is used to denote the "title" of a Sigma rule?	
title	✓ Correct Answer
What keyword is used to denote the "name" of a rule in YARA?	
rule	✓ Correct Answer

RESULT:

After completing this, got a solid foundation in log analysis, a critical skill in cybersecurity for identifying, investigating, and responding to security threats efficiently.

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PROCESS CODE INJECTION

EXP.NO: 10 DATE:01-04-2025

AIM:

To do process code injection on Firefox using ptrace system call

ALGORITHM:

- 1. Find out the pid of the running Firefox program.
- 2. Create the code injection file.
- 3. Get the pid of the Firefox from the command line arguments.
- 4. Allocate memory buffers for the shellcode.
- 5. Attach to the victim process with PTRACE_ATTACH.
- 6. Get the register values of the attached process.
- 7. Use PTRACE POKETEXT to insert the shellcode.
- 8. Detach from the victim process using PTRACE DETACH

PROGRAM CODE:

INJECTOR PROGRAM

include <stdio.h>//C standard input output

include <stdlib.h>//C Standard General Utilities Library

include <string.h>//C string lib header

include <unistd.h>//standard symbolic constants and types

include <sys/wait.h>//declarations for waiting

include <sys/ptrace.h>//gives access to ptrace functionality

include <sys/user.h>//gives ref to regs

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