

**EX.NO:14**

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**DATE:18/4/25**

**ROLLNO:231901503**

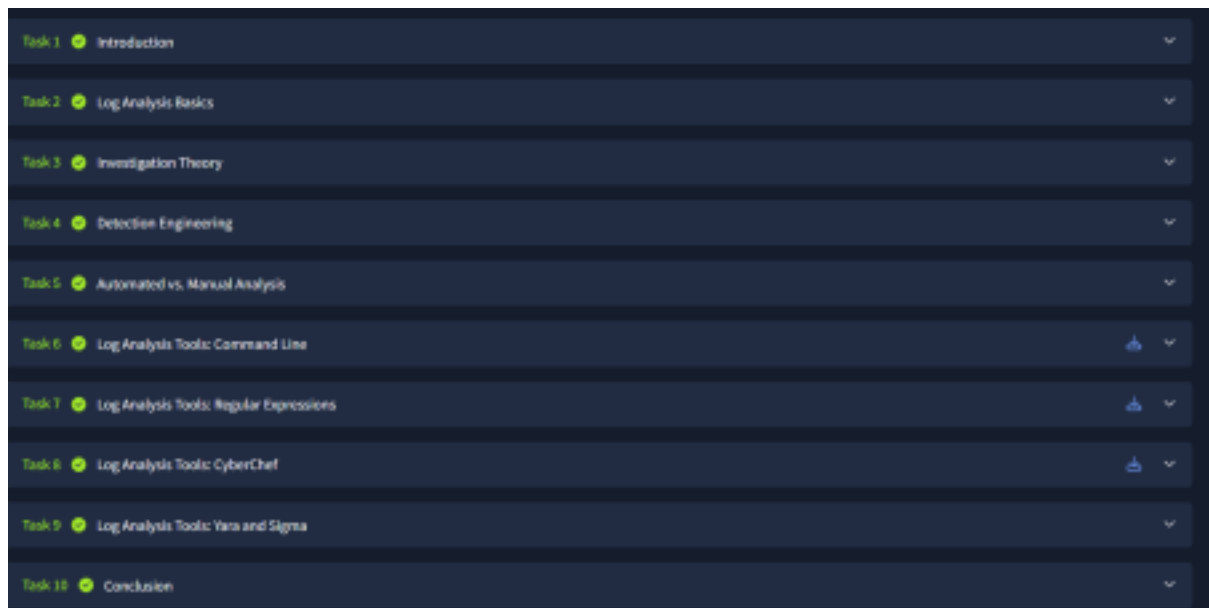
## **Intro to Log Analysis**

**AIM:**

To learn about log analysis, best practices, and essential tools for effective detection and response.

**PROCEDURE:**

Complete the given task as per the instructions.



**Task 1:Introduction**



**Task 2:Log Analysis Basics**



**Task 3:Investigation Theory**

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 `5b31f93c99a2c3865c8891b764886933` and `7637f8dbcd8c856a8e60736457e88b4e` be classified as?

File Hashes ✓ Correct Answer

#### Task 4:Detection Engineering

Answer the questions below

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 `XtX3zE3z7XtX3zE3z7-proc325-eal190few4roe` was identified. What kind of attack might this infer?

Path Traversal ✓ Correct Answer

#### Task 5:Automated vs. Manual Analysis

Answer the questions below

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

#### Task 6:Log Analysis Tools: Command Line

Answer the questions below

Use `cat` on the `apache_log` file to return only the URLs. What is the flag that is returned in one of the unique entries?

`c701e63cc5a3acb9b5b64db7f1be94f6` ✓ Correct Answer Hint

In the `apache_log` file, how many total HTTP 200 responses were logged?

52 ✓ Correct Answer Hint

In the `apache_log` file, which IP address generated the most traffic?

145.76.33.201 ✓ Correct Answer Hint

What is the complete timestamp of the entry where `108.132.68.76` accessed `/login.php`?

31/Jul/2023:12:34:40 +0000 ✓ Correct Answer Hint

#### Task 7:Log Analysis Tools: Regular Expressions

Answer the questions below

How would you modify the original `grep` pattern above to match blog posts with an ID between 25-29?

`post=2[0-9]` ✓ Correct Answer Hint

What is the name of the filter plugin used in Logstash to parse unstructured log data?

Grok ✓ Correct Answer

#### Task 8:Log Analysis Tools: Cyber Chef

Answer the questions below

Locate the "loganalysis.zip" file under `/root/Room/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:5A:4B:7F:61 ✓ Correct Answer

## Task 9:Log Analysis Tools: Yara and Sigma

Answer the questions below

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

## Task 10:Conclusion

Task 10 Conclusion

In this room, we covered the basic methodology behind adopting an effective log analysis strategy. We explored the importance of log data collection, common attack patterns, and useful tools for the investigation and response processes.

Next Steps

To expand your SIEM and centralized logging solution capabilities, visit the [Advanced Splunk](#) and [Advanced ELK](#) modules.

Answer the questions below

Click and continue learning:

No answer needed ✓ Correct Answer

## RESULT:

Thus, the experiment is completed successfully in try hack me platform.