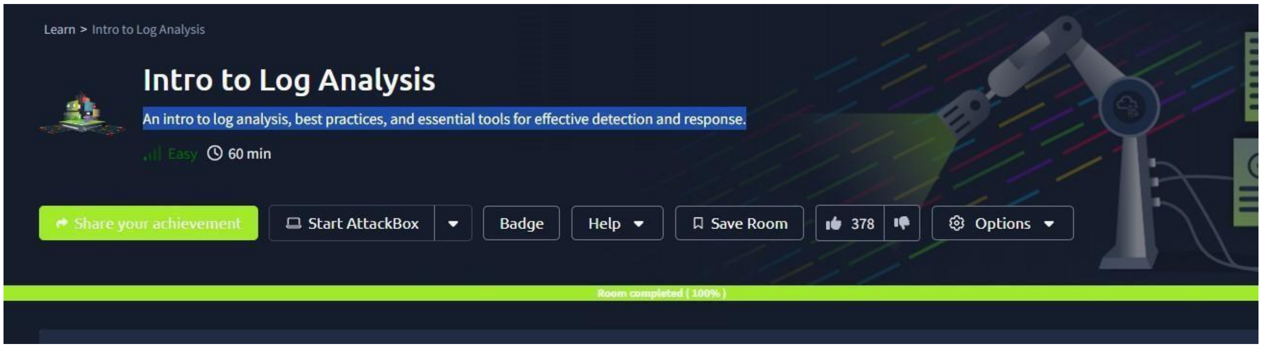
NAME: H.KAVYA VARSHINI **231901021**

EXERCISE 14
LOG ANALYSIS FOR DETECTION AND RESPONSE

Aim: To understand log analysis, implement best practices, and use essential tools for efficient threat detection and incident response.

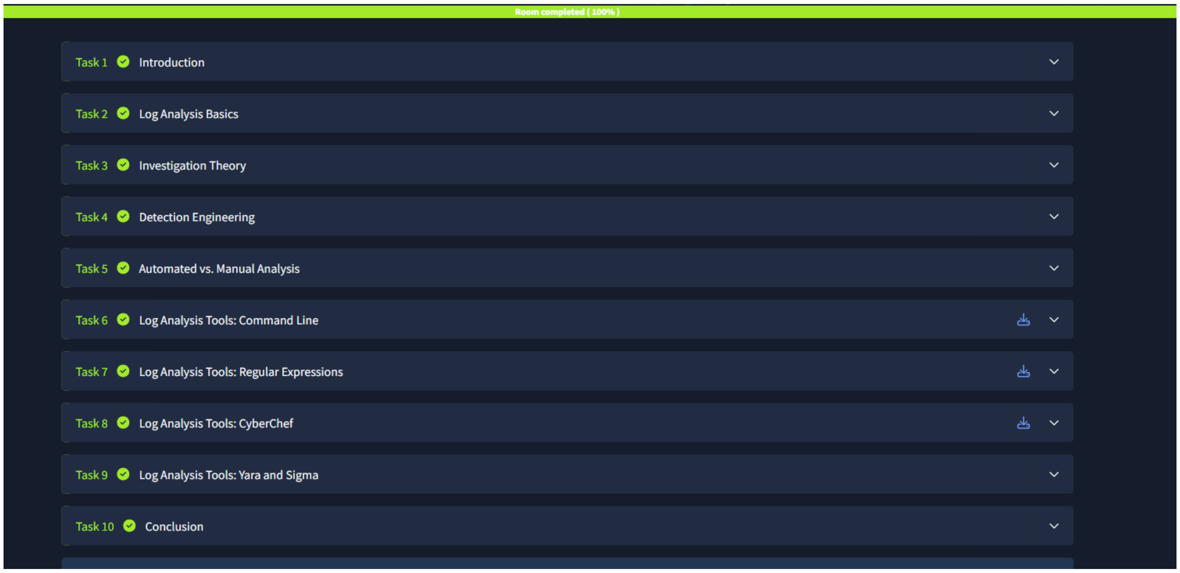


Learn > Intro to Log Analysis

Intro to Log Analysis

An intro to log analysis, best practices, and essential tools for effective detection and response.

Easy 60 min



Task 1 Introduction

Task 2 Log Analysis Basics

Task 3 Investigation Theory

Task 4 Detection Engineering

Task 5 Automated vs. Manual Analysis

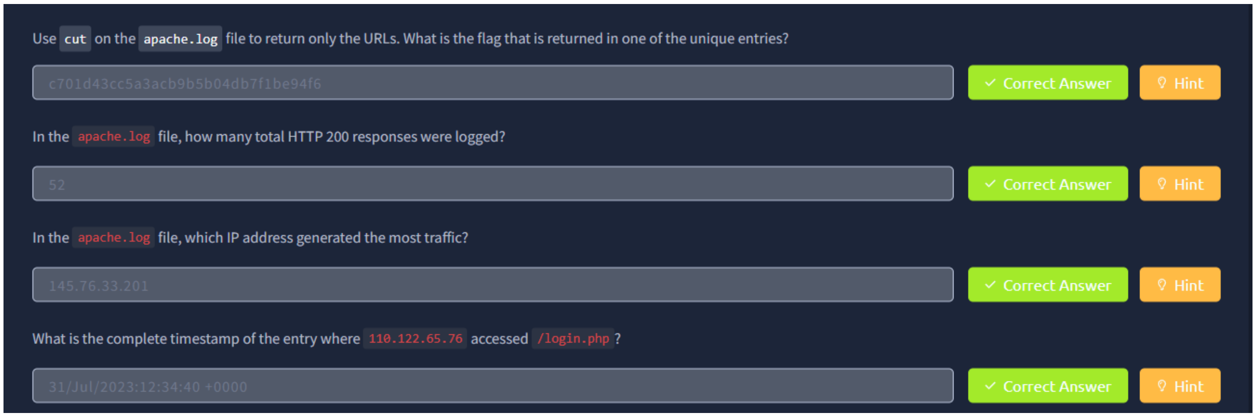
Task 6 Log Analysis Tools: Command Line

Task 7 Log Analysis Tools: Regular Expressions

Task 8 Log Analysis Tools: CyberChef

Task 9 Log Analysis Tools: Yara and Sigma

Task 10 Conclusion



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

In the `apache.log` file, how many total HTTP 200 responses were logged?

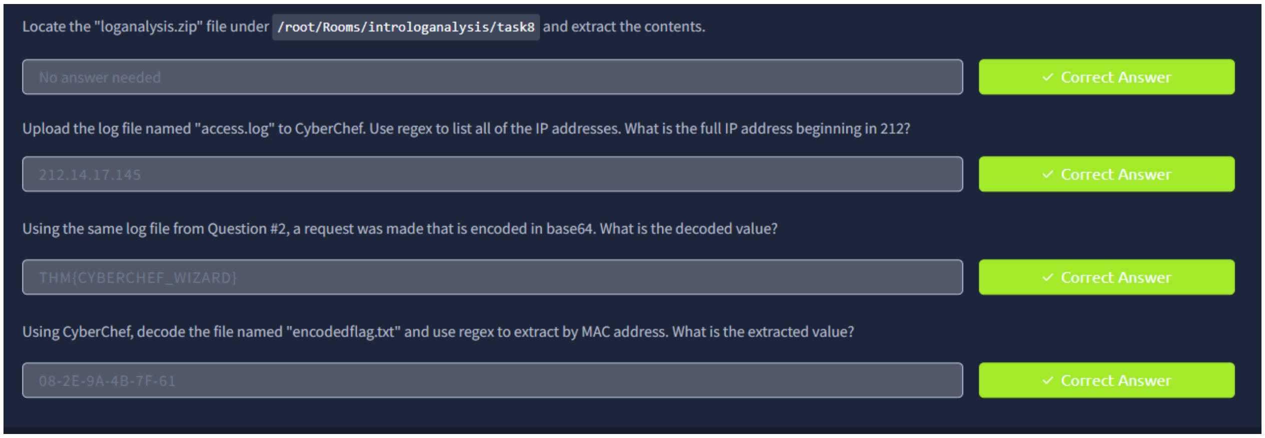
52

In the `apache.log` file, which IP address generated the most traffic?

145.76.33.201

What is the complete timestamp of the entry where `110.122.65.76` accessed `/login.php`?

31/Jul/2023:12:34:40 +0000



Locate the "loganalysis.zip" file under `/root/Rooms/introloganalysis/task8` and extract the contents.

No answer needed

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?

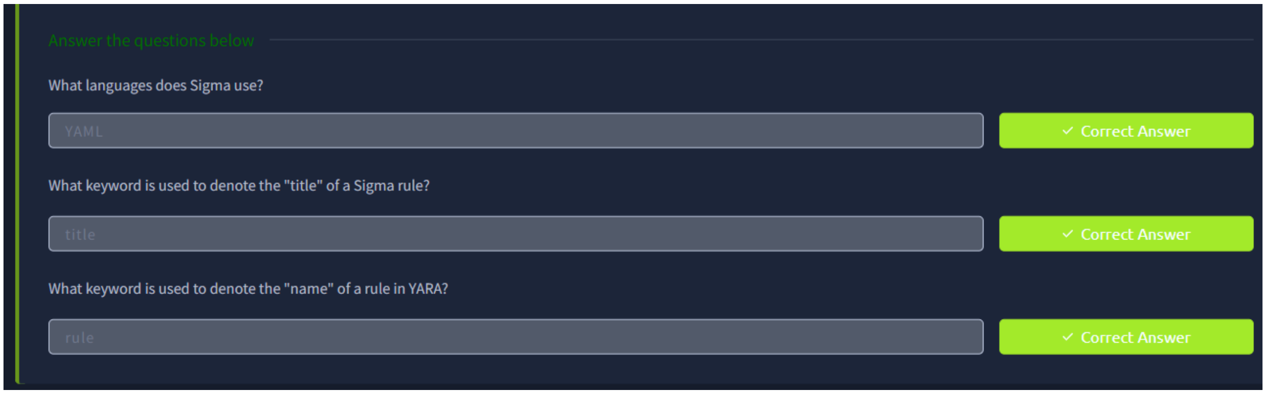
212.14.17.145

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}

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



Answer the questions below

What languages does Sigma use?

YAML

What keyword is used to denote the "title" of a Sigma rule?

title

What keyword is used to denote the "name" of a rule in YARA?

rule

Result: Gained insights into analyzing logs effectively, applying best practices, and leveraging tools to detect and respond to security events.