



WEB REQUEST REPORT

Hackthebox academy



JUNE 6, 2023

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Introduction

The web-request module provide an overview of HTTP, including the different types of requests and responses, the header that are used to transfer data. It also introduces the command-line tool cURL and its use in making HTTP request through the GET, POST, PUT, and DELETE. The module also provide knowledge in using of the browser Devtool to inspect requests and responses.

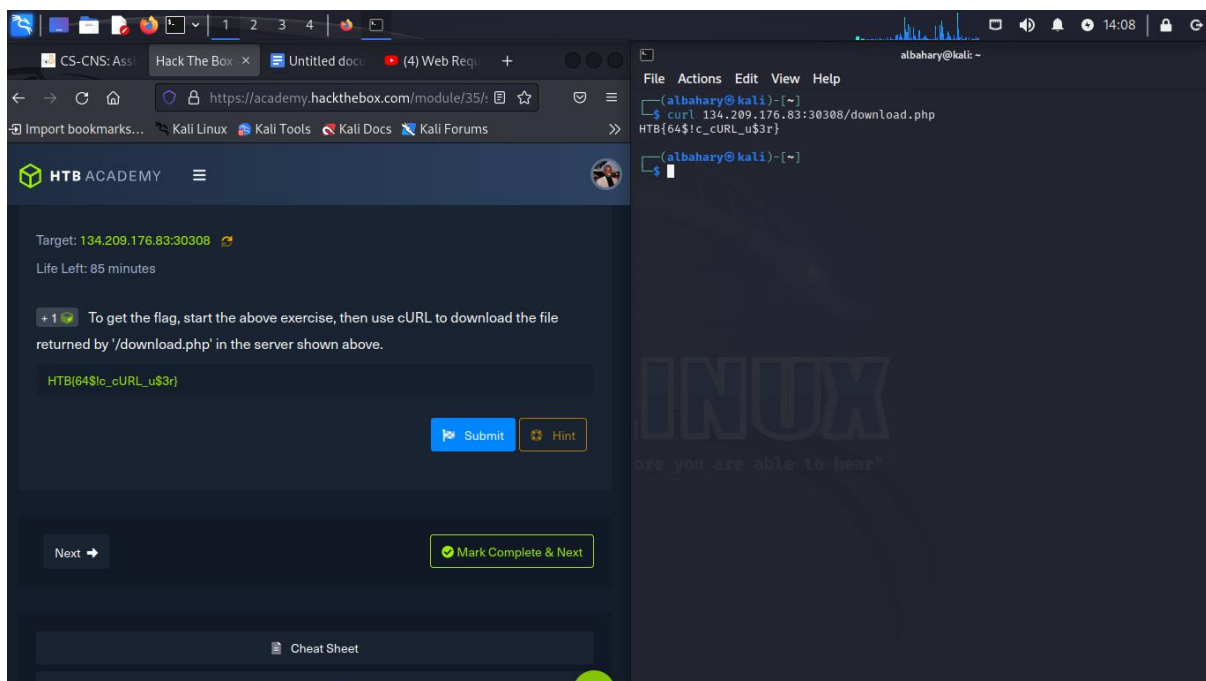
HyperText Transfer protocol (HTTP)

Topic one Quiz

1. To get the flag, start the above exercise, then use cURL to download the file returned by '/download.php' in the server shown above.

To get the flag I used the following syntax in the terminal;

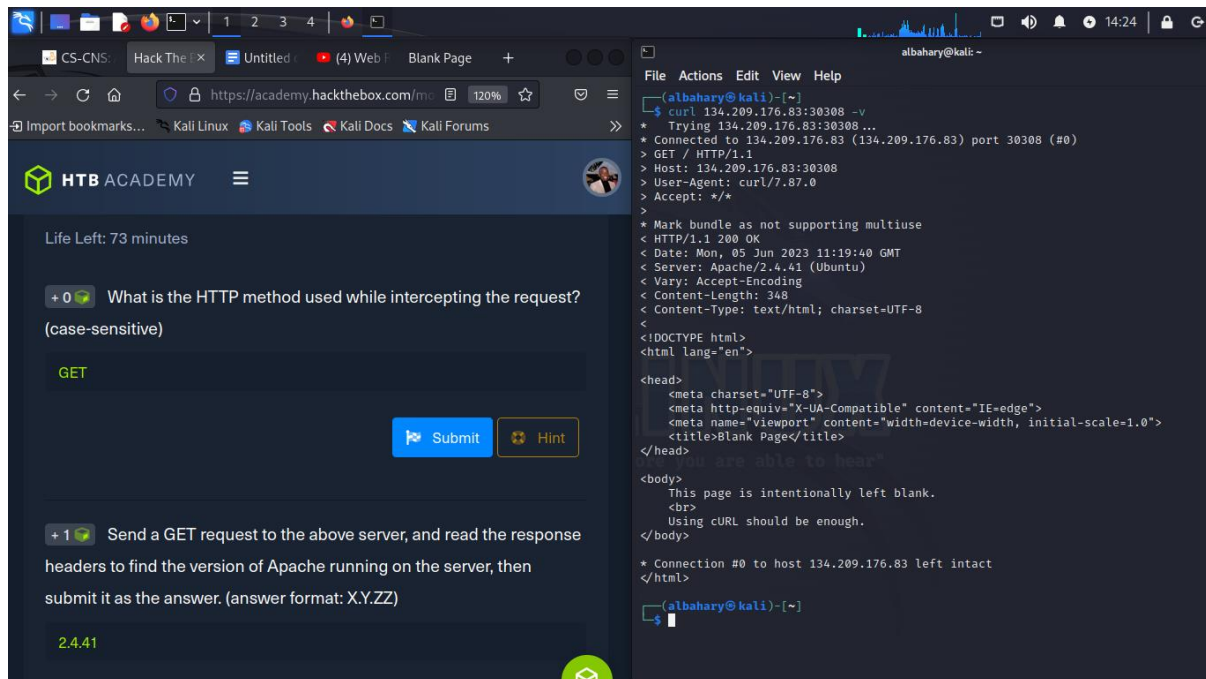
Curl 134.209.176.83:30308/download.php



To get the method used and version of the apache server;

I entered the following command in the terminal;

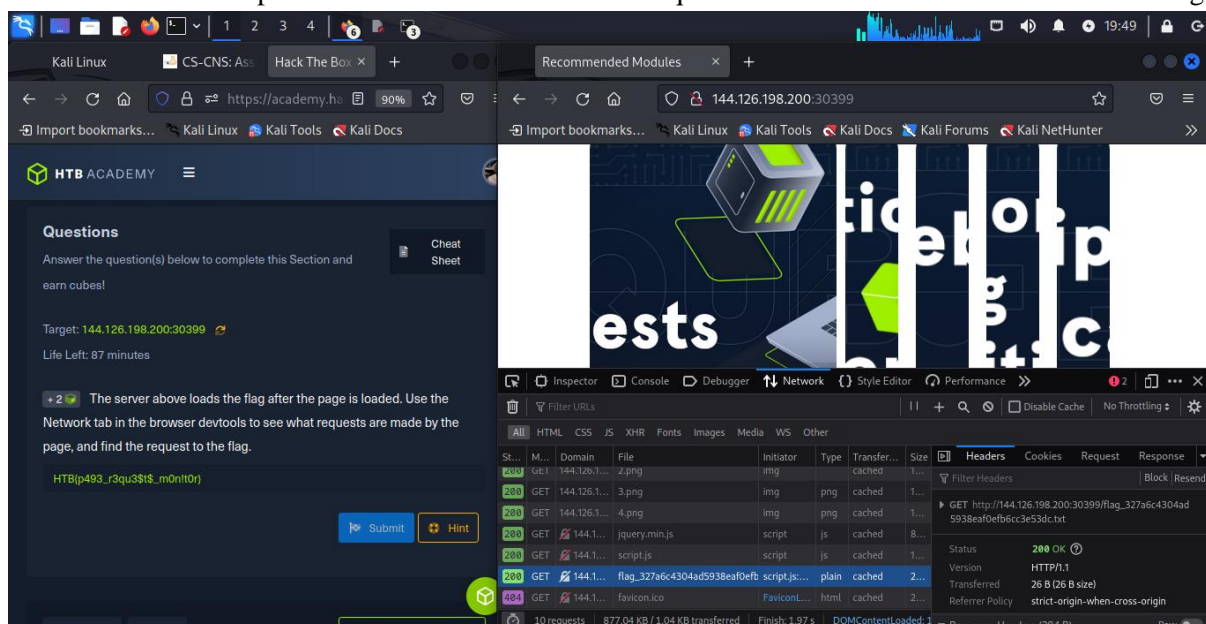
Curl 137.209.176.83:30308 -v

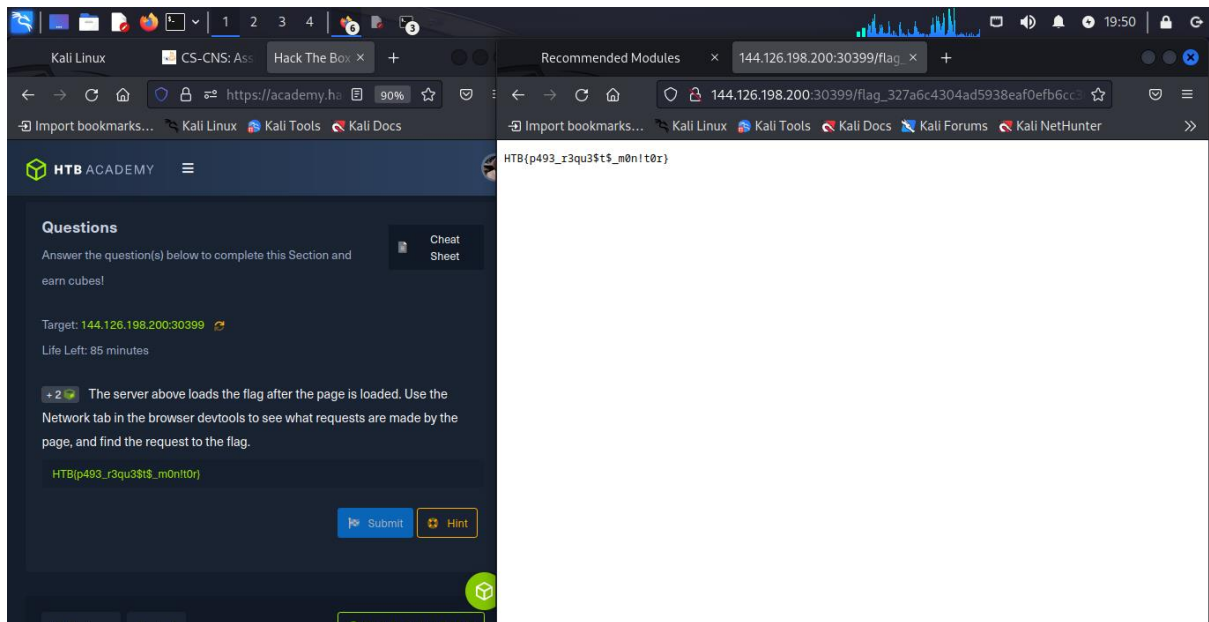


Http Headers Quiz

1. The server above loads the flag after the page is loaded. Use the Network tab in the browser devtools to see what requests are made by the page, and find the request to the flag.

To find the request I Went and examined the site using the network tab tool and found the request was **GET**. Then I copied the curl url of the request to browser and found the flag.

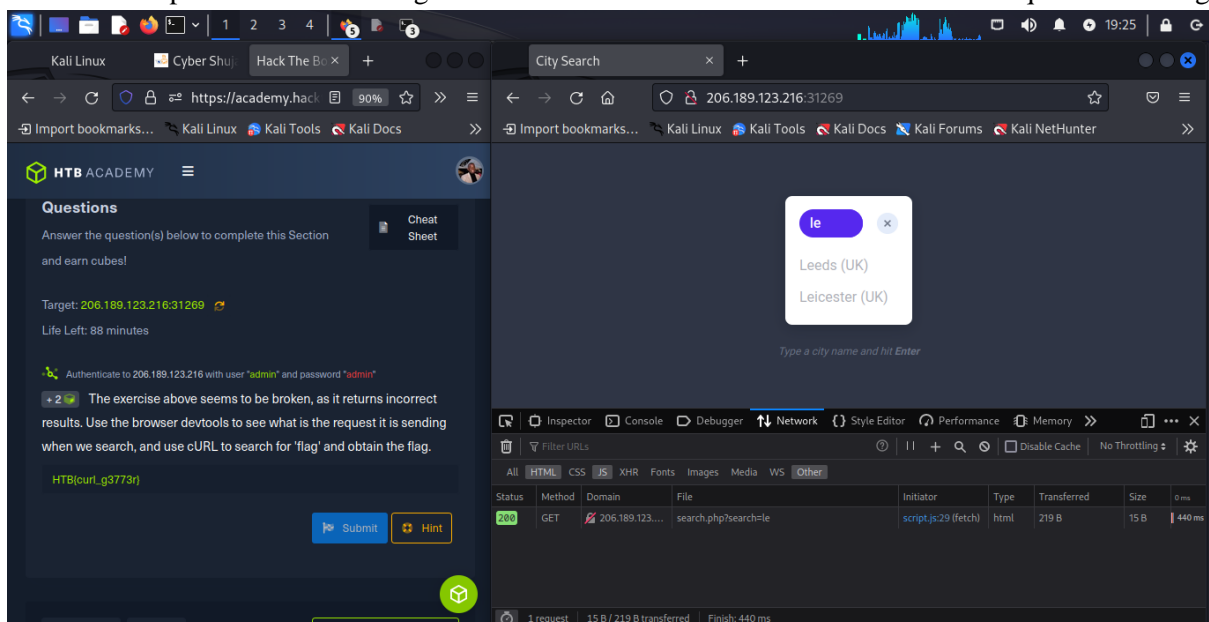




GET QUESTION

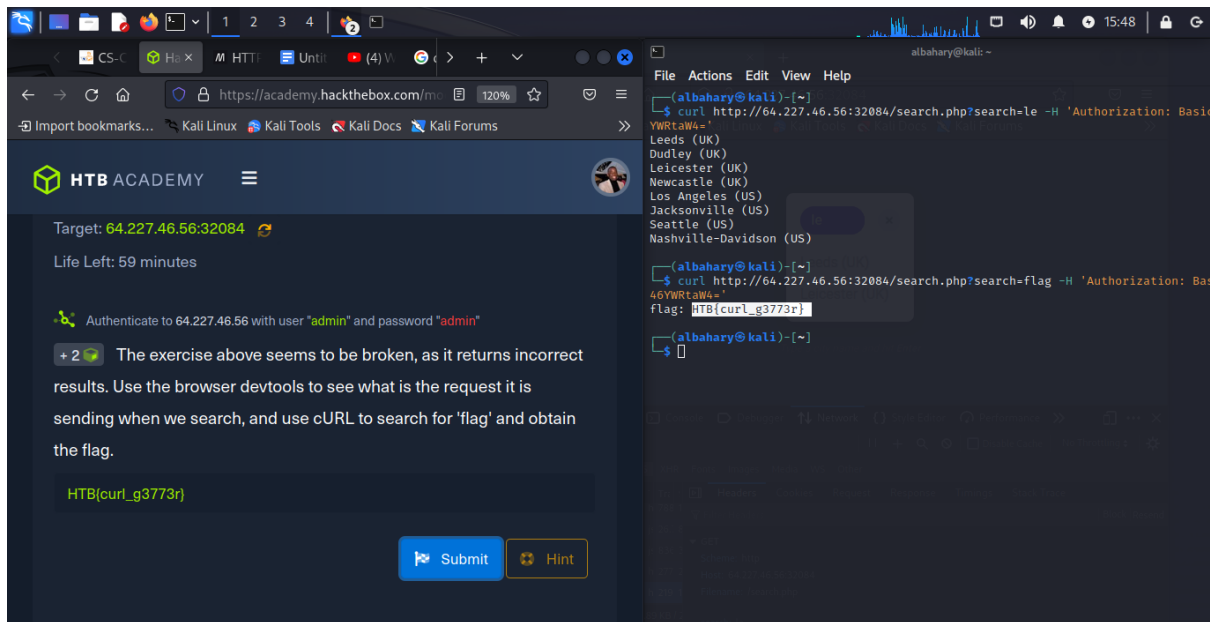
1. The exercise above seems to be broken, as it returns incorrect results. Use the browser devtools to see what is the request it is sending when we search, and use cURL to search for 'flag' and obtain the flag.

The first step is to enter the given address to the terminal and find the request its using



We see the request is GET, Next step is to use the http authorization header flag in the terminal

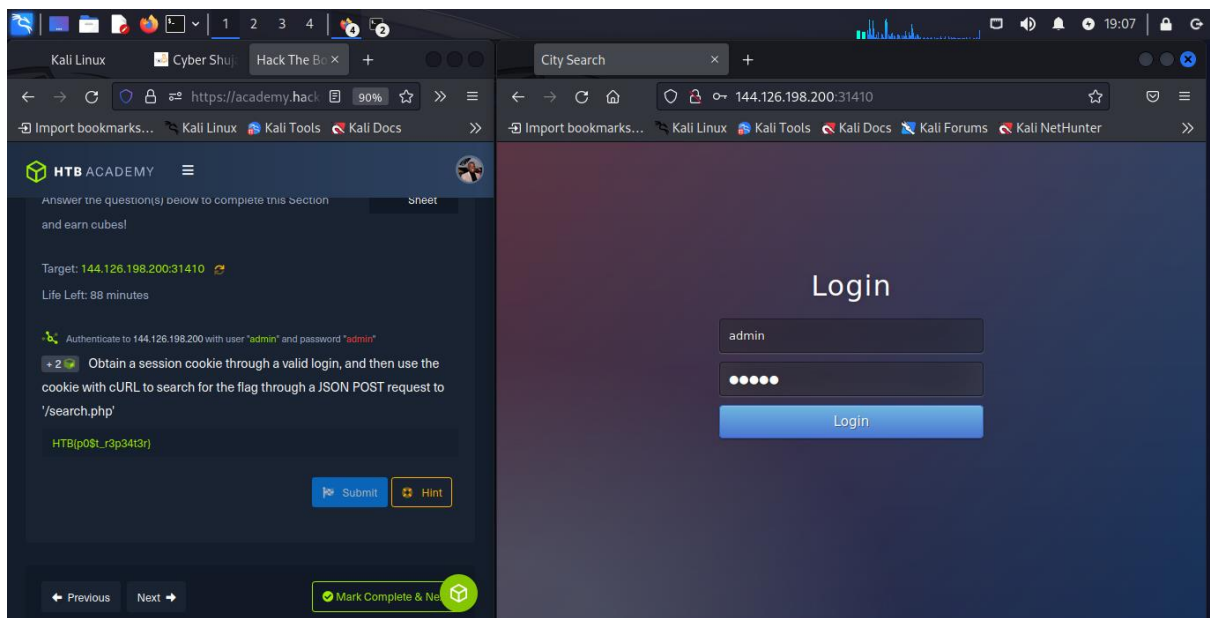
To see if it will connect, last step is to use the GET parameters in the terminal to search and capture the flag.



POST Question

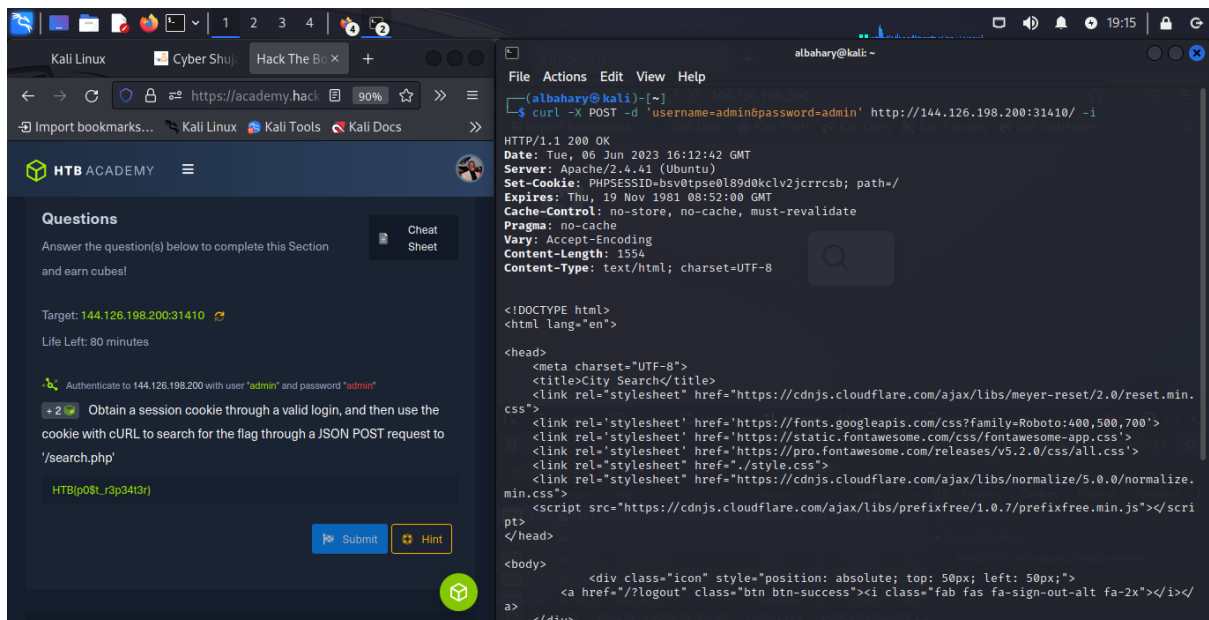
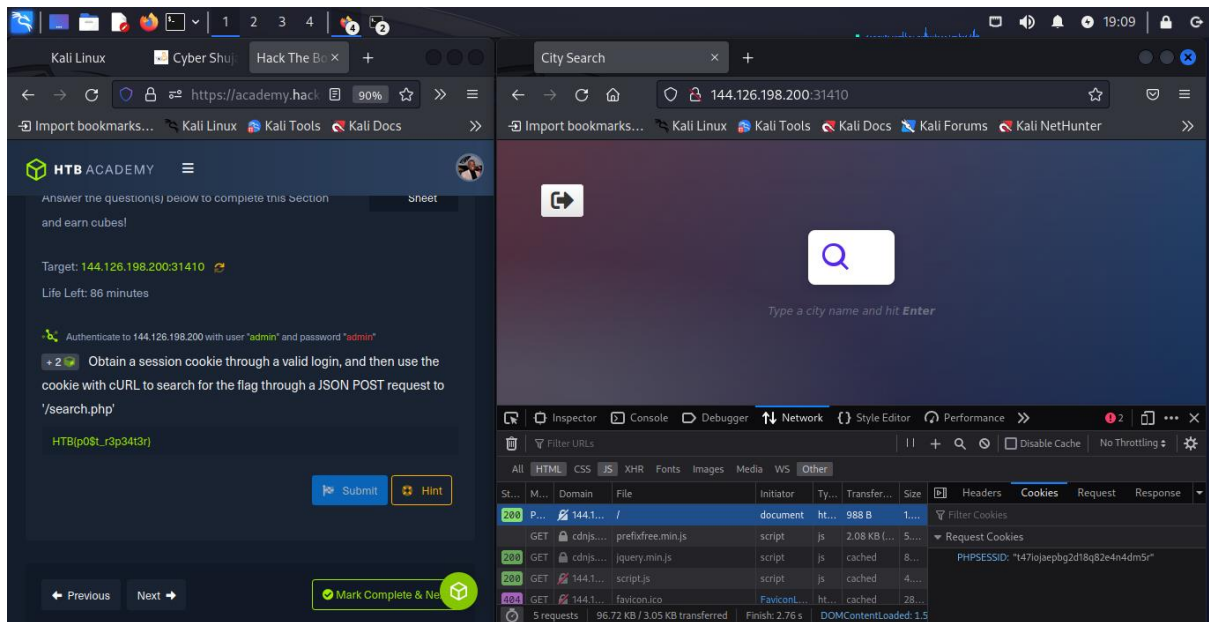
1. Obtain a session cookie through a valid login, and then use the cookie with cURL to search for the flag through a JSON POST request to '/search.php'

First step is login in the website so as to obtain the cookie of the session

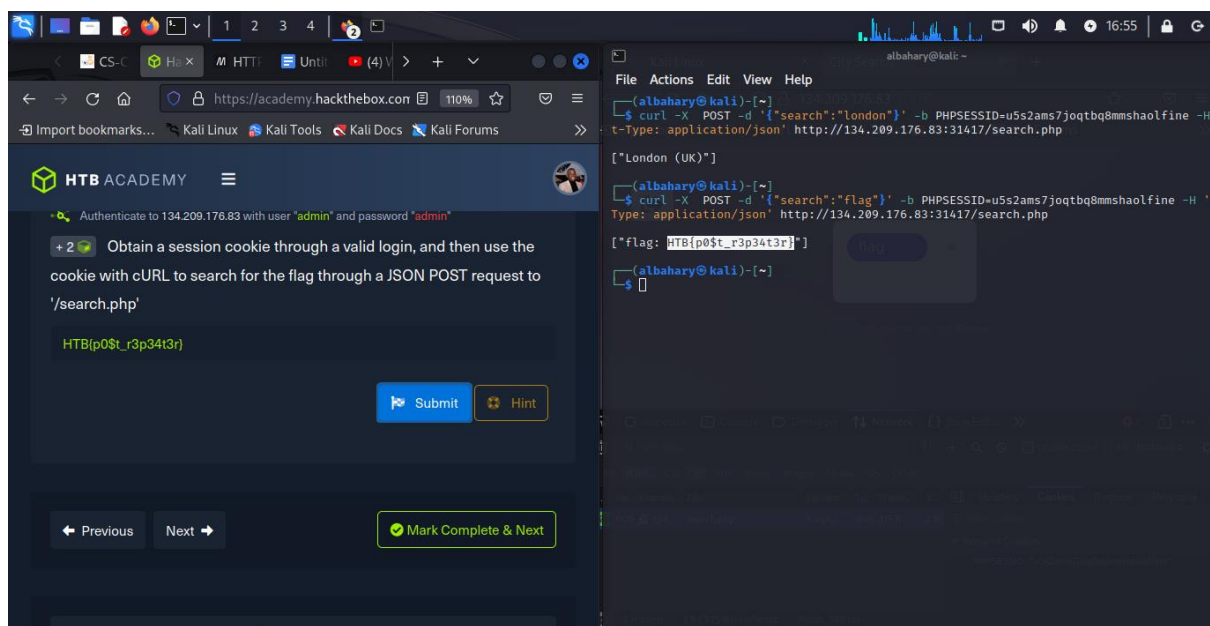


The cookie obtained will be used with curl in the terminal to search for the flag via JSON POST request to /search.php.

Session obtained and saved

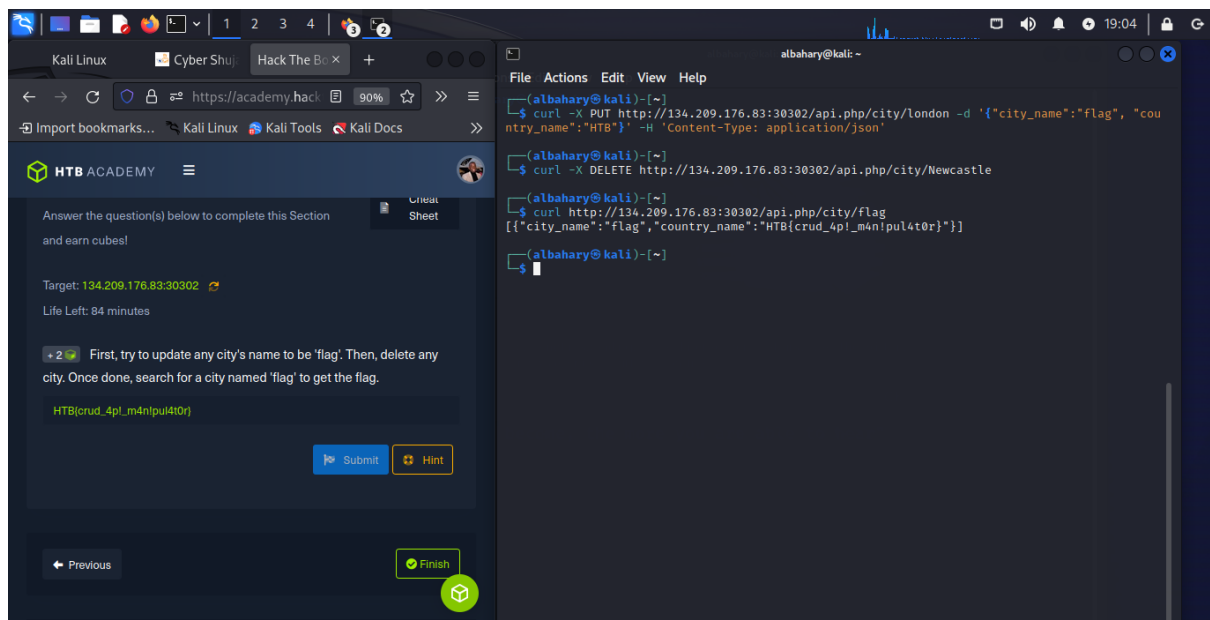


Using curl in the terminal to search for the flag via JSON POST request to /search.php.



CRUD API QUESTION

1. First, try to update any city's name to be 'flag'. Then, delete any city. Once done, search for a city named 'flag' to get the flag.



To modify the city name from London to flag:

Curl -X PUT <http://134.209.176.83:30302/api.php/city/london> -d '{"city_name": "flag", "country_name": "HTB"}' -H 'Content-Type: application/json'

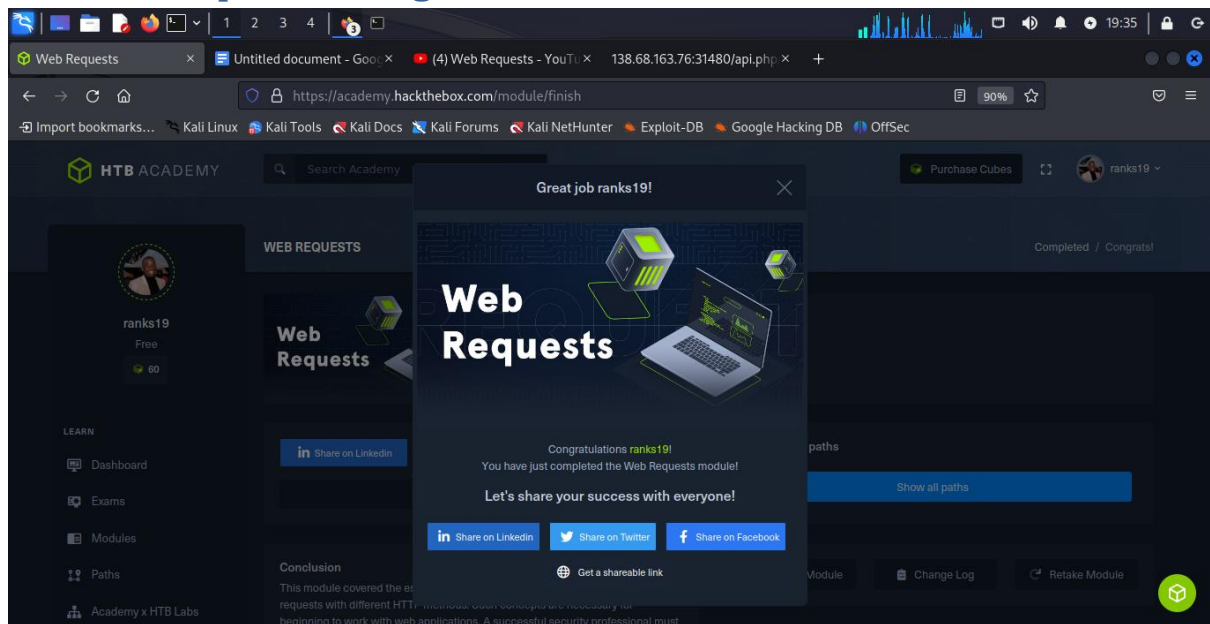
To delete a city named Newcastle:

Curl -X DELETE [http:// 134.209.176.83:30302/api.php/city/Newcastle](http://134.209.176.83:30302/api.php/city/Newcastle)

To search for the city named flag:

Curl [http:// 134.209.176.83:30302/api.php/city/flag](http://134.209.176.83:30302/api.php/city/flag)

Module completion badge



Conclusion

This module covers essential concepts such as the HTTP protocol, request methods, headers, and data payloads. It provides hands-on exercises and challenges to help learners gain practical experience in crafting and sending HTTP requests using various tools and programming languages. The module emphasizes understanding the structure of HTTP requests and responses, analysing response codes, and extracting information from web pages. I was introduced to the Curl (Client URL) which is a command-line tool that can be used to transfer data to and from a server. It can be also used to download files. The use of the browsers Devtool to inspect the requests and response request as they are happening proved useful. My experience with the command-line Curl proved overwhelming at first, but after completing the module I have become more comfortable conversing with it.