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adm : CS-CNS02-23047

The communication between client and server uses internet through HTTP, which utilizes port 80. This communication is a process, which I can summarize as follows.

I enter a URL into browser, a request is sent to DNS to get its IP and returns it to the browser. The browser will perform Get request to the port 80 to request the path for the to the web server. The web server will process the request and return index.html page.

Curl client URL is used to print raw format of web page, to download a page and output content into a file.

Since the communication between client and server involves clear text, there is need to secure it. HTTPS encrypts the data being shared between them.

1. Client http request through port 80.
2. Server sense and respond through 301 move permanently to redirect client to https 443
3. Client say hello
4. Server say hello
5. Normal handshake continues.

HTTP header pass information between client and server. Categories
General Headers

1. Entity Headers
2. Request Headers
3. Response Headers
4. Security Headers

spawning the target system

Waiting to st

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target: [Click here to spawn the target system!](#)

+ 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.

HTB{64\$!c_cURL_u\$3r}

Submit Hint

Target: [Click here to spawn the target system!](#)

+ 0 🟢 What is the HTTP method used while intercepting the request? (case-sensitive)

GET

Submit Hint

+ 1 🟢 Send a GET request to the above server, and read the response headers to find the version of Apache running on the server, then submit it as the answer. (answer format: X.Y.ZZ)

2.4.41

Submit Hint

← Previous Next →

🟢 Mark Complete & Next

using browser development tools to get the flag

Waiting to st

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target: [Click here to spawn the target system!](#)

+ 2 🟩 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.

HTB(p493_r3qu3\$t\$_m0nlt0r)

Submit Hint

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✔ Mark Complete & Next

using Curl commad to download and get the flag

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target: [Click here to spawn the target system!](#)

Authenticate to with user "admin" and password "admin"

+2 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.

HTB{curl_g3773r}

Submit Hint

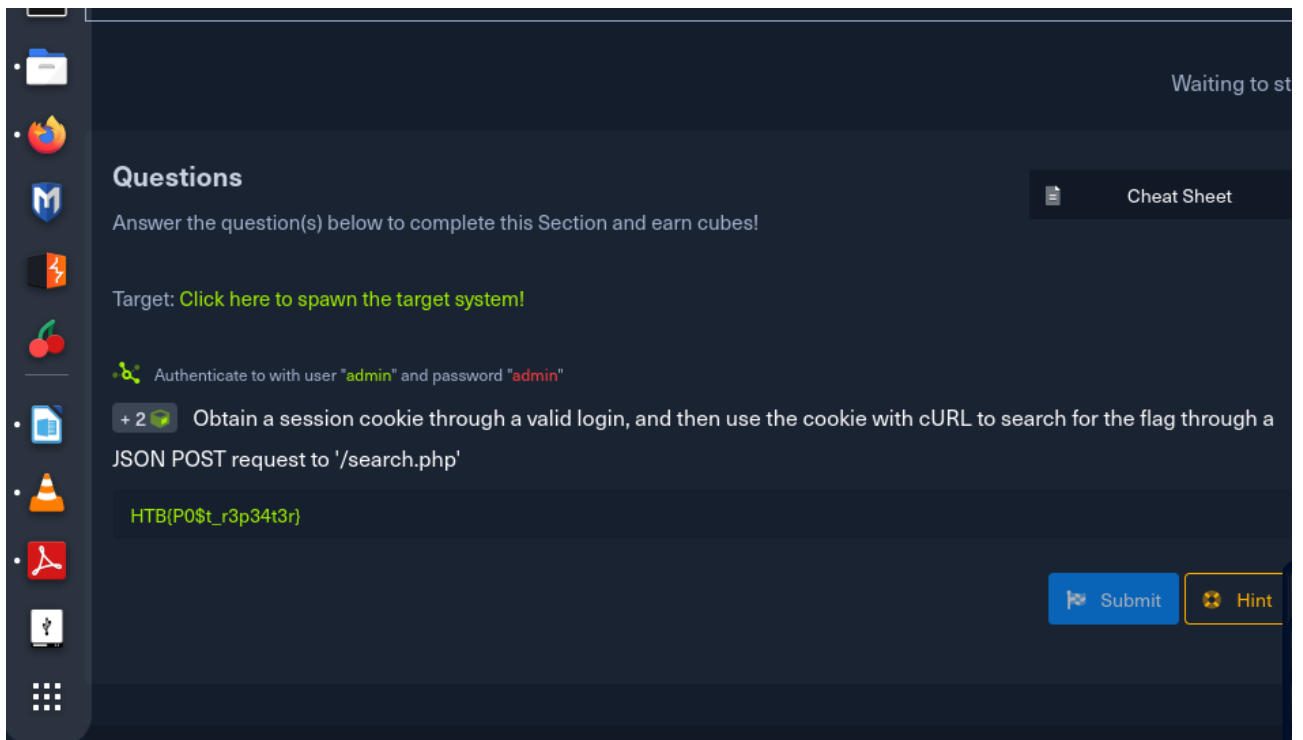
Previous Next

Mark Complete & Next

Request methods includes

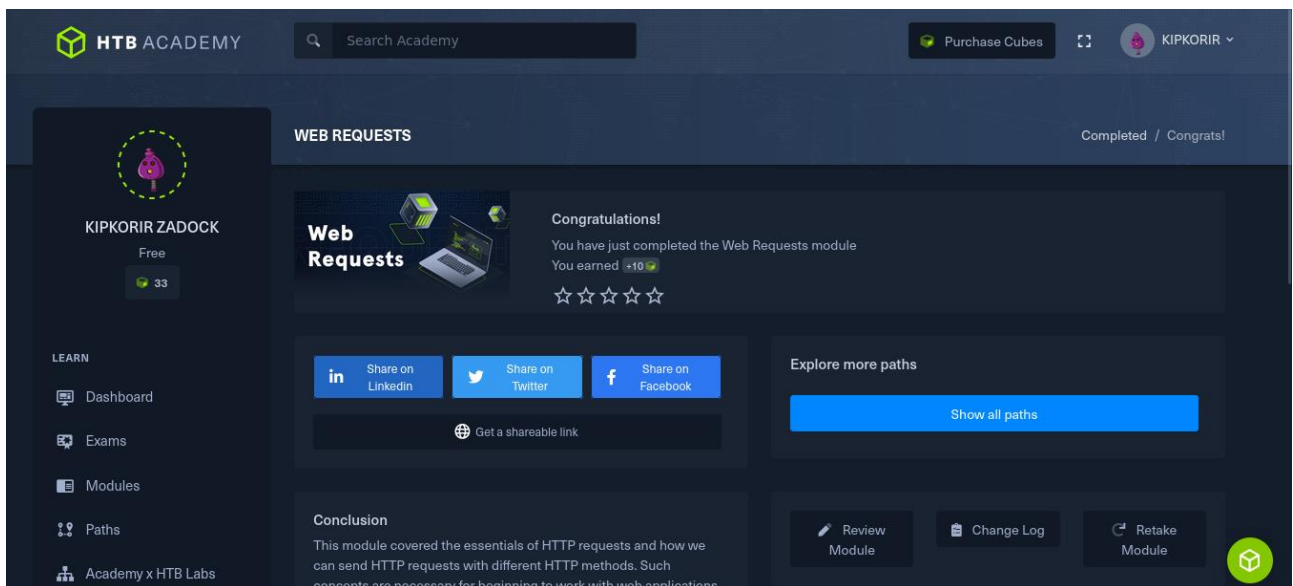
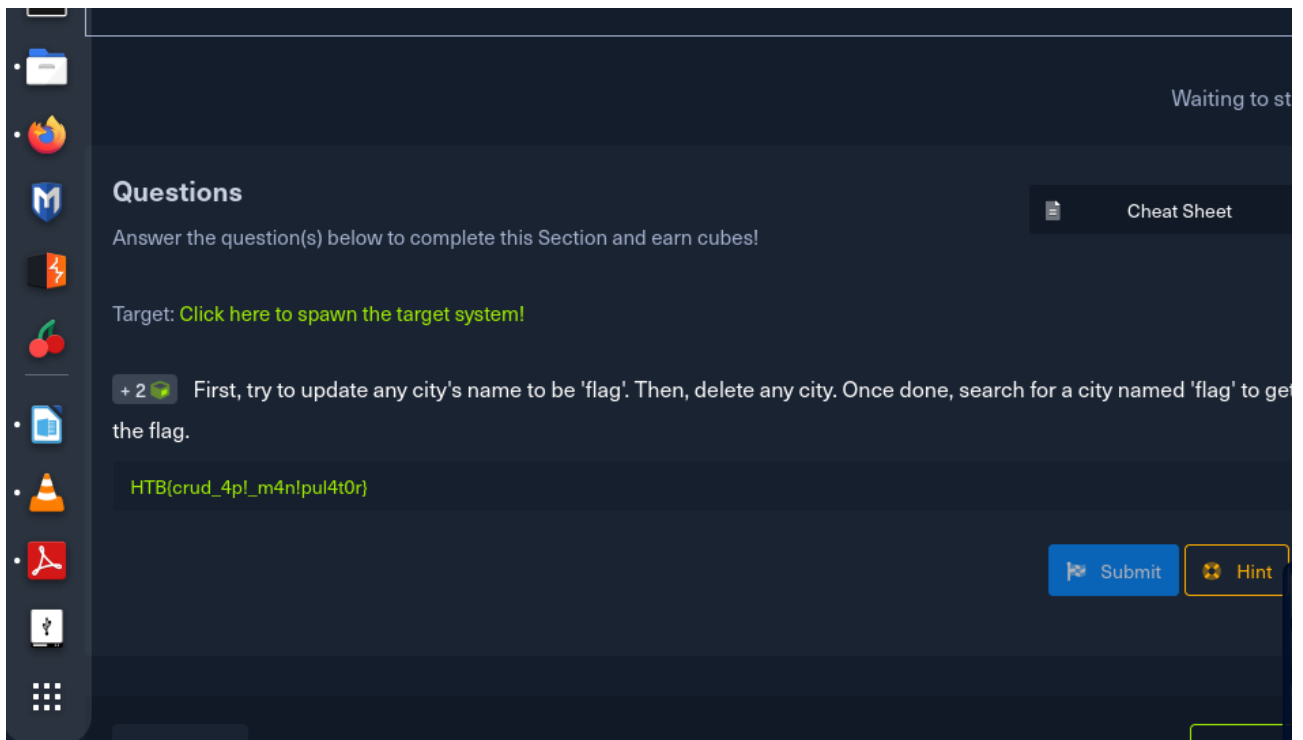
GET
POST
HEAD
PUT
DELETE
PATCH.

Using cookie Curl command



APIs are used to interact with database. With help of http we can perform operation.

Utilizing CRUD commands to get the flag



conclusion

practical tasks in the hackthebox academy have improved my knowledge about the process of client and server communication to perform handshake. Using and having knowledge of tools like burpsuit, curl, browser dev tools are key to securing systems.