## **Insecure Object Path Reference Report**- 16.8.3 - 16

Tester's Name: Stanley Ford

## **Lab No. 16.8.3 IDOR**

• General information:

• Testing period: 07.02.2023

• Test object: http://51.250.73.193:8087/

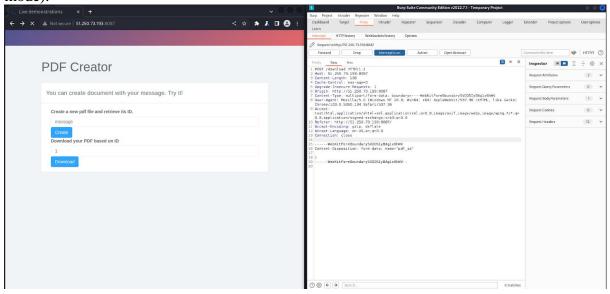
Description of actions:

The first routine step of looking at the page code did not give me anything, so I am closer to the heart of the matter.

I tried the program, saw how a pdf file is created and how it is downloaded. I was confused by the ability to download files that I didn't create and that are available just by ID. It turns out that users create a PDF with THEIR personal data, and anyone can find out the content if they just pick up a number? It's not safe and you can't do that. I wouldn't want to use such an app.

I'll show you visually:I translated a query with some IDI in Burp Suite in Intruder. I know that IDs range from 1 to 1500 (the site itself tells me this when I point to a non-existent pdf file).

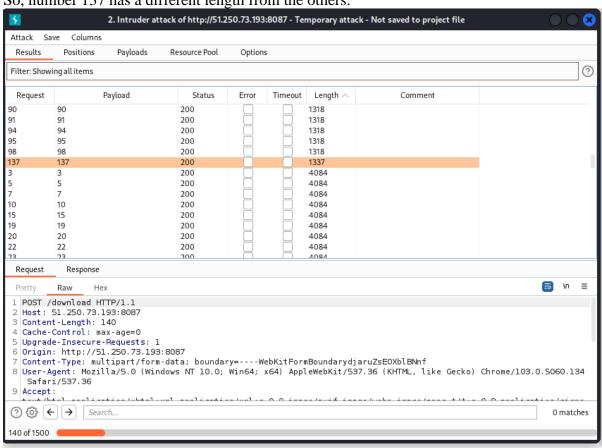
Next, I created a special dictionary with numbers from 1 to 1500 and attacked it (Sniper mode):



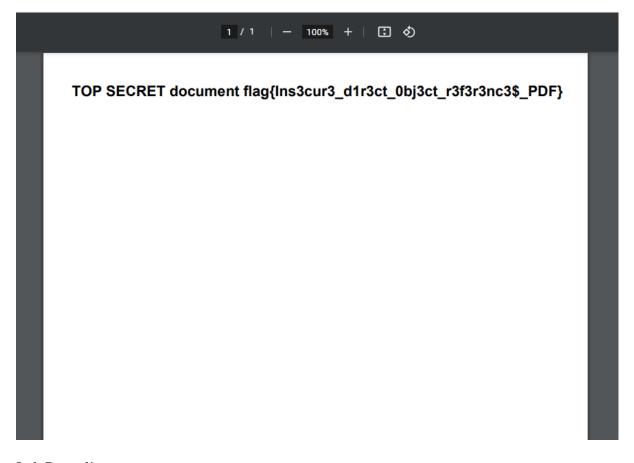
	lets you configure a simple list of stri	
Paste	1	
	2	
Load	3	
Remove	4	
	5	
Clear	6	
	<b> </b>   7	
Deduplicate	8	
	9	
	10	
Add	Enter a new item	

After waiting for the entire dictionary to be processed, I analyzed the server's responses, in particular their length, in order to find the one that stands out from the others. There are not many options here: either there is no pdf file (the response length is 4084), or the answer returns a test pdf (1318), or a "special" one.

So, number 137 has a different length from the others.



I check the contents of the pdf file under this number and get a flag.



Lab Passed!

## **Self-Assessment Questions:**

- List the tools (programs and utilities) that you used to solve this lab:Web Browser (Google Chrome)
  Burp Suite
- List the vulnerabilities you have discovered: IDOR (Insecure Object Path Reference)
- Give advice on how to improve your security: Encrypt everything. Remove the ability to refer to an object by direct number. Use hash instead of object references. Alternatively, you can use an indirect reference to objects.