Surfer Writeup Tryhackme

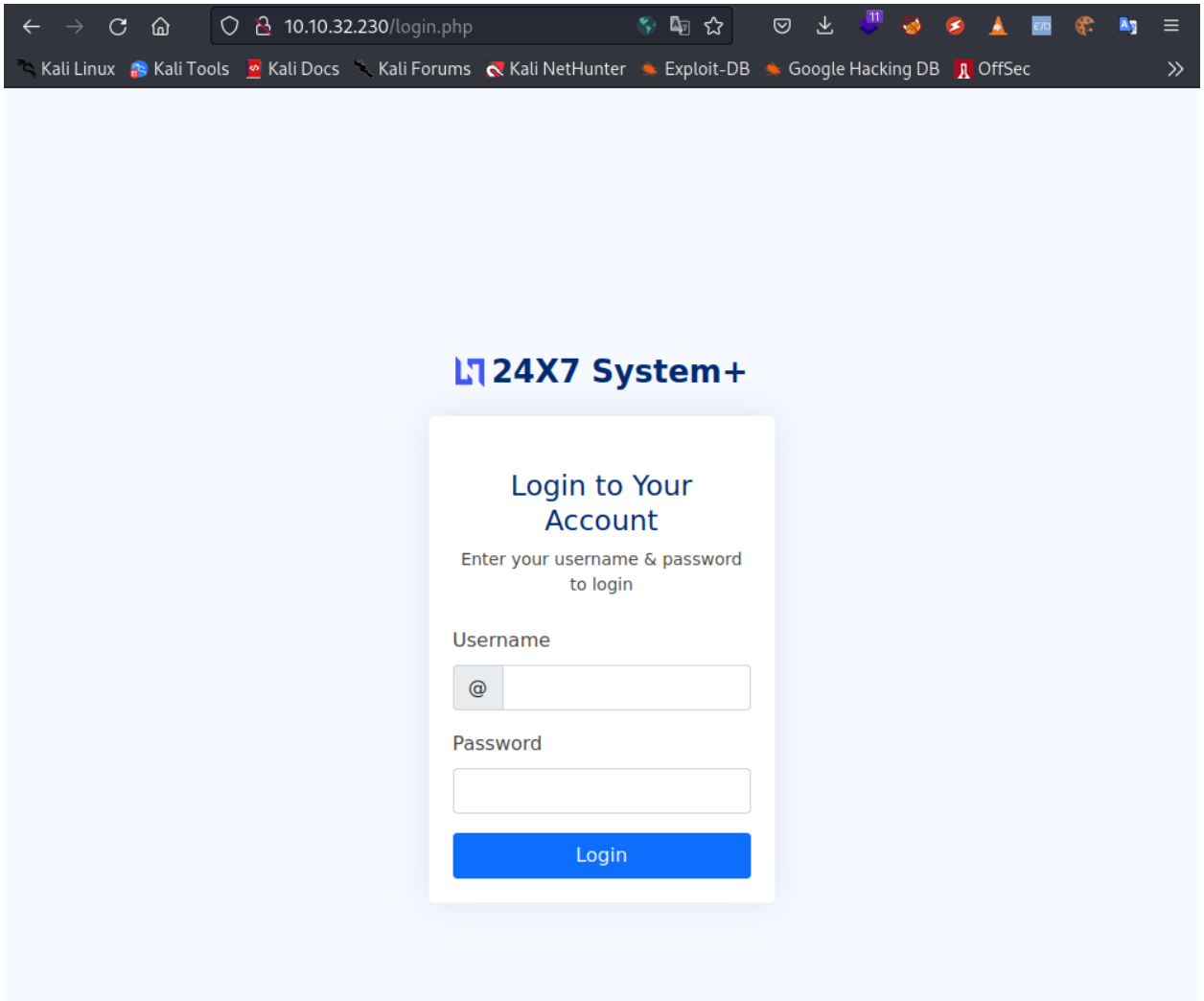
accessone

initial nmap

```
┌──(accessone㉿accessone)-[~/Desktop/thm/surfer]
└─$ sudo nmap -sV -p- 10.10.32.230 -oN init_services_ports
[sudo] password for accessone:
Starting Nmap 7.93 ( https://nmap.org ) at 2022-10-25 10:01 BST
Nmap scan report for 10.10.32.230
Host is up (0.038s latency).
Not shown: 65533 closed tcp ports (reset)
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.2p1 Ubuntu 4ubuntu0.4 (Ubuntu Linux; protocol 2.0)
80/tcp open  http    Apache httpd 2.4.38 ((Debian))
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.89 seconds
```

open ssh but we have no credentials. looking at the website on port 80 we find a login page running on PHP:



running dirbuster we discover robots.txt is available and within it we find a directory backup with a text file chat.txt, we also can see an internal directory:

```
┌──(accessone㉿accessone)-[~/Desktop/thm/surfer]
└─$ dirb http://10.10.32.230

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DIRB v2.22
By The Dark Raver
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START_TIME: Tue Oct 25 10:02:29 2022
URL_BASE: http://10.10.32.230/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

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GENERATED WORDS: 4612

---- Scanning URL: http://10.10.32.230/ ----
==> DIRECTORY: http://10.10.32.230/assets/
==> DIRECTORY: http://10.10.32.230/backup/
+ http://10.10.32.230/index.php (CODE:302|SIZE:0)
==> DIRECTORY: http://10.10.32.230/internal/
+ http://10.10.32.230/robots.txt (CODE:200|SIZE:40)
+ http://10.10.32.230/server-status (CODE:403|SIZE:277)
==> DIRECTORY: http://10.10.32.230/vendor/

---- Entering directory: http://10.10.32.230/assets/ ----
==> DIRECTORY: http://10.10.32.230/assets/css/
==> DIRECTORY: http://10.10.32.230/assets/img/
==> DIRECTORY: http://10.10.32.230/assets/js/
==> DIRECTORY: http://10.10.32.230/assets/vendor/

---- Entering directory: http://10.10.32.230/backup/ ----

---- Entering directory: http://10.10.32.230/internal/ ----
+ http://10.10.32.230/internal/admin.php (CODE:200|SIZE:39)
```
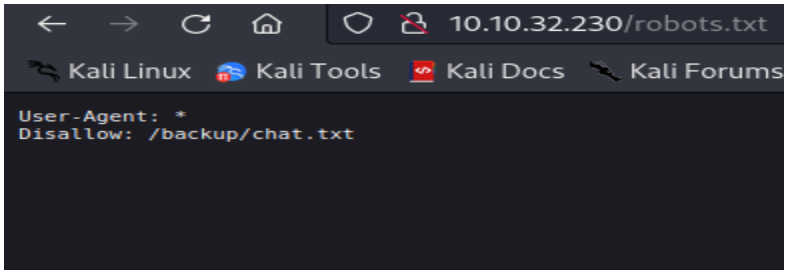
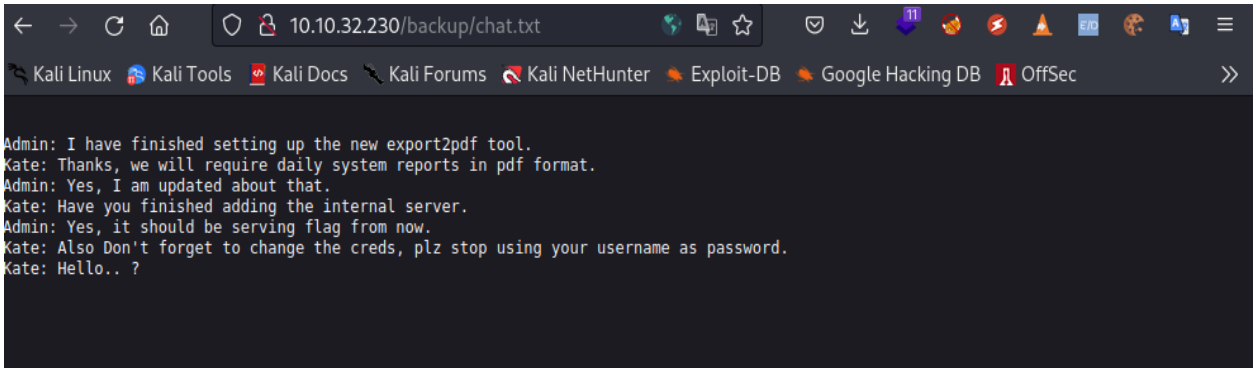
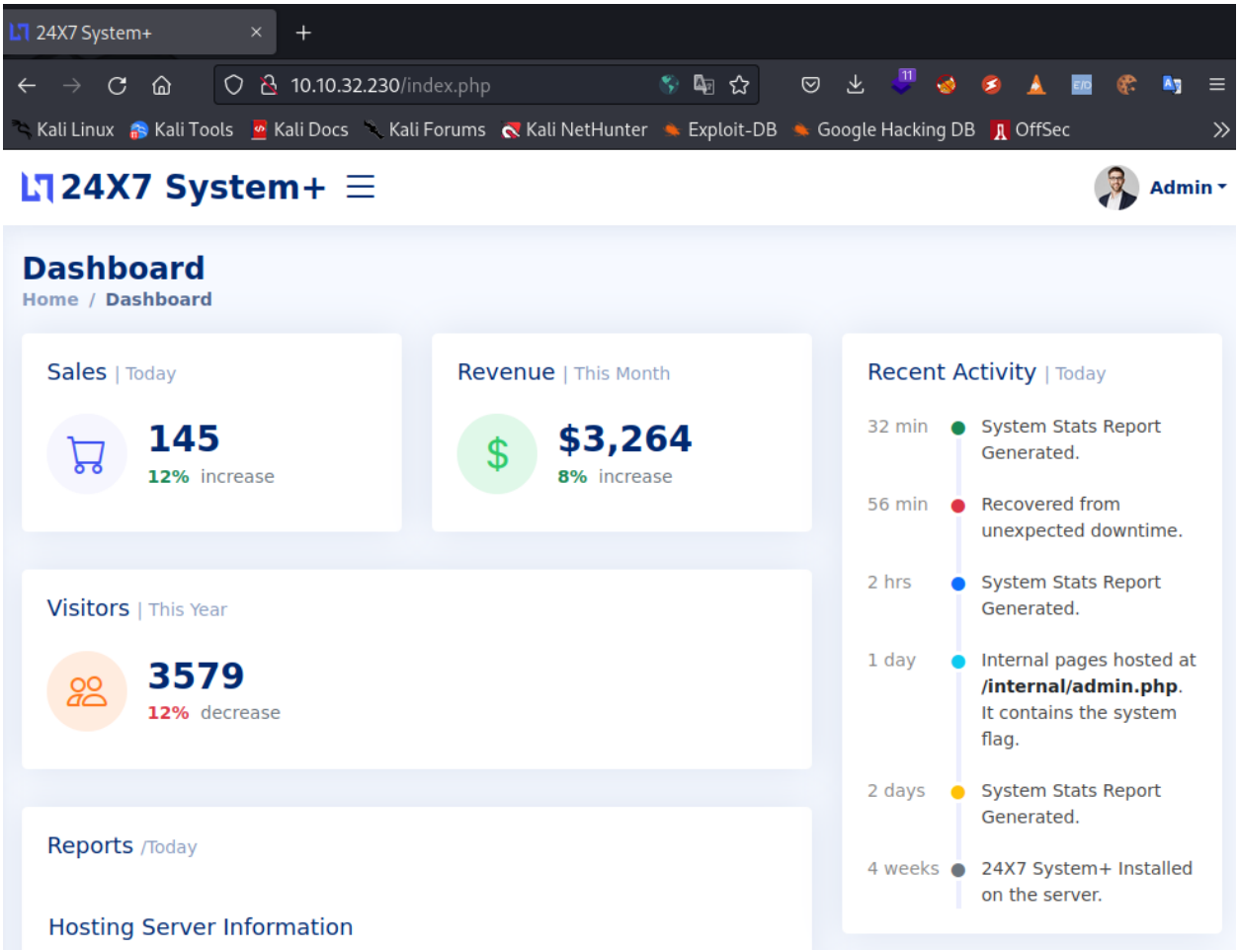



Looking at chat.txt we see from this conversation that admin is using his username as his password so lets try this on the login portal.

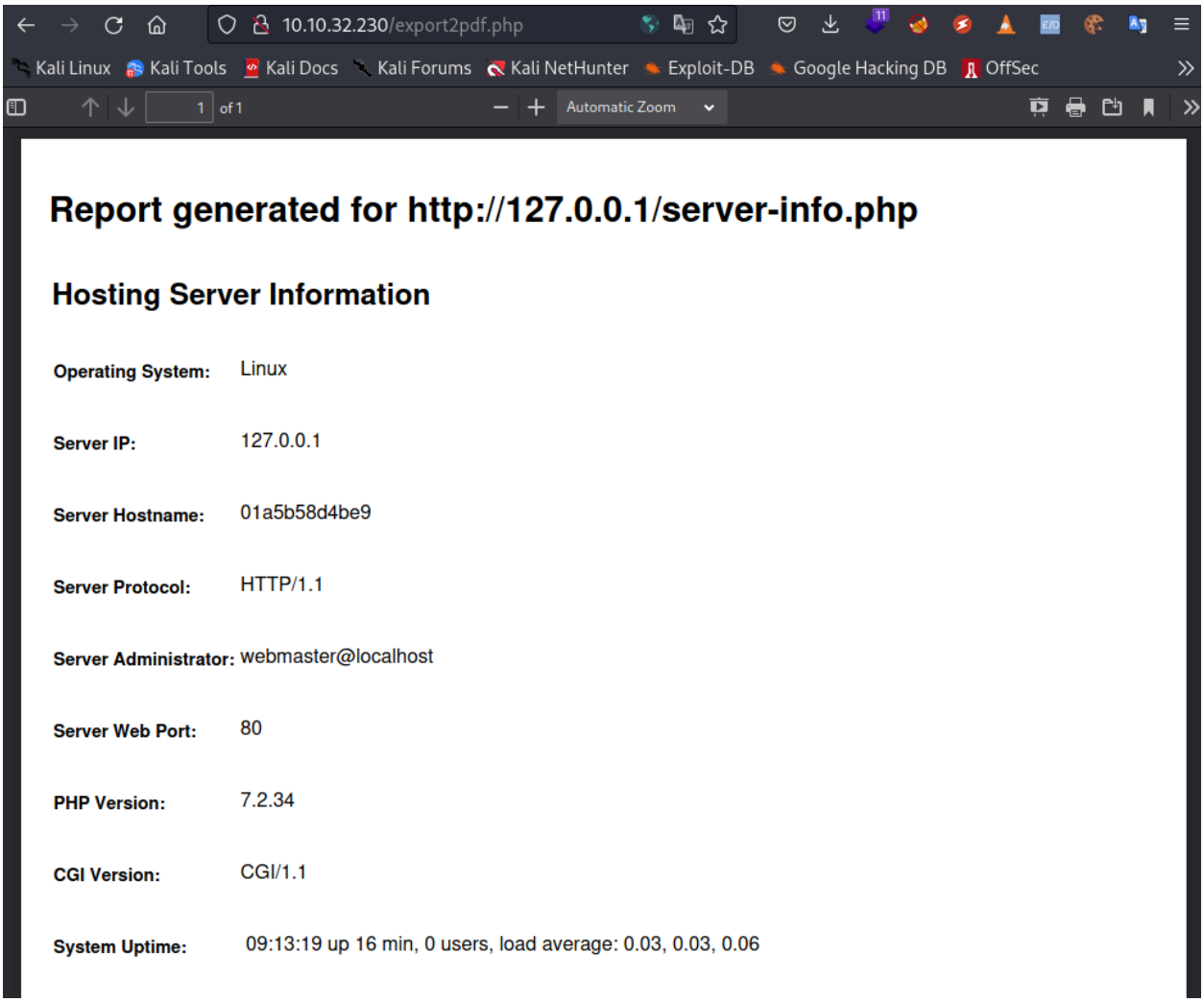


We successfully logged in as the admin account.

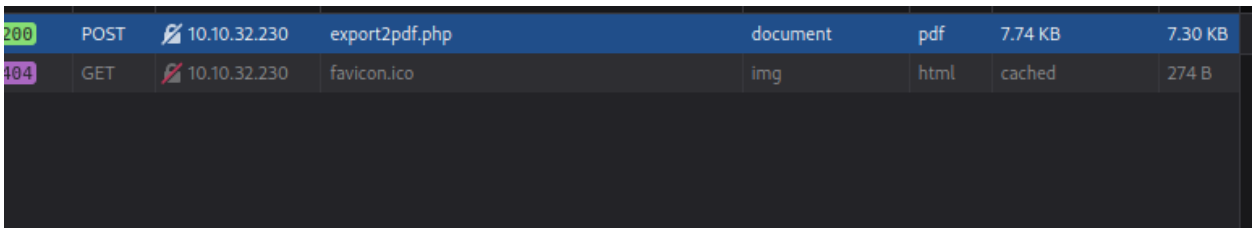


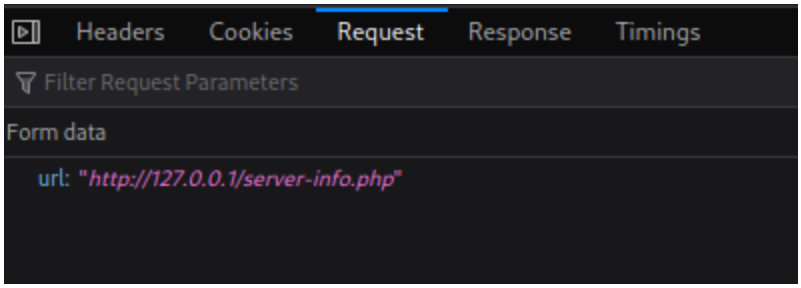
we can export a pdf report from the dashboard so we take a look to see what if anything useful we can find.

Exported pdf:

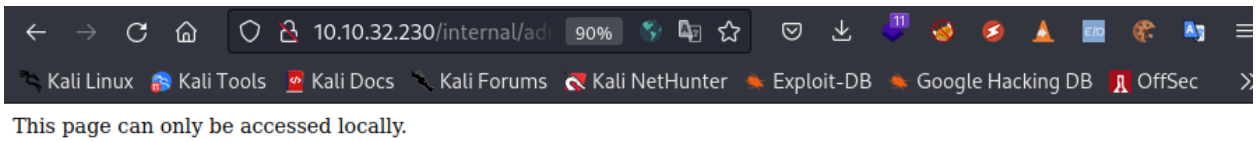


looking at this we have an internal ip and the ability to export to PDF using export2pdf.php this should allow us to possibly export the flag file we are looking for Via SSRF if we can find it. we can see the export2pdf.php request is a post request using the url parameter:



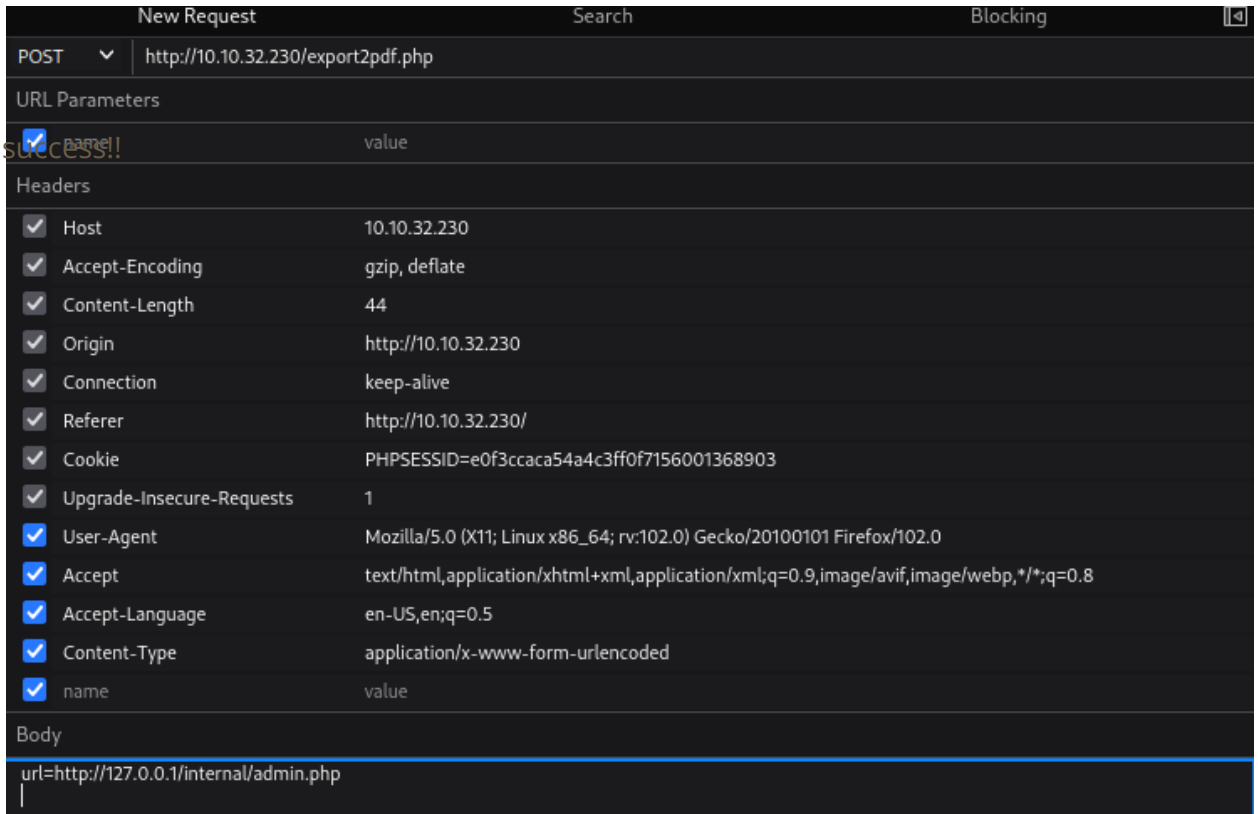


we could fuzz this using a fuzzer like ffuf but i noted earlier that our DIRB scan found something interesting within an internal directory called admin.php we can see by navigating to this page that it is only internally accessible or is it?:

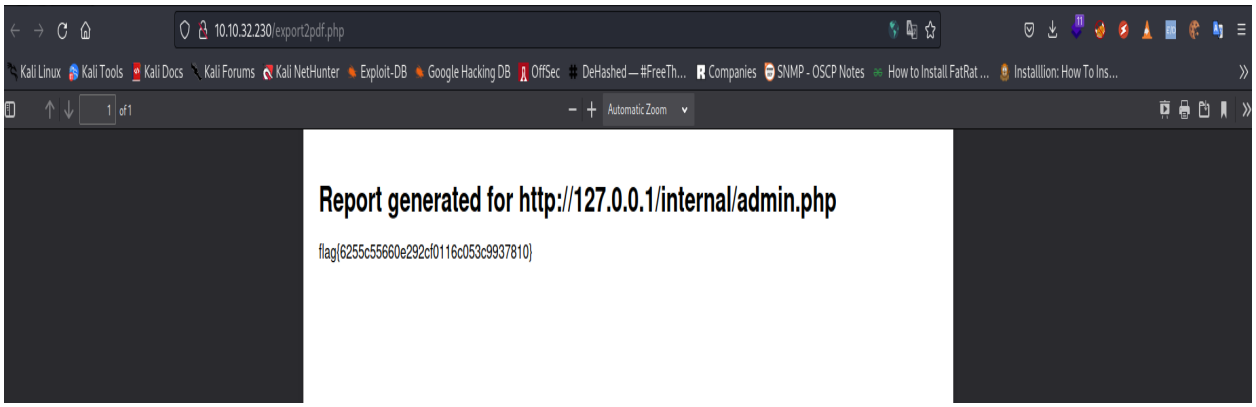


This page can only be accessed locally.

if we edit the request sent to the web server we could possibly retrieve this file ,if we make the request to the export2pdf.php telling it to make a post request but changing the body of the request to request that internal address and file then we should be able to request that internal file this can be done from the browser or using something like burpsuite::



After sending the request and opening the response in a new browser window we have successfully retrieved admin.php from the internal server and in doing so performed an SSRF and retrieved our flag!:



Thank you for taking the time to read my write up.