

Surfer Writeup Tryhackme

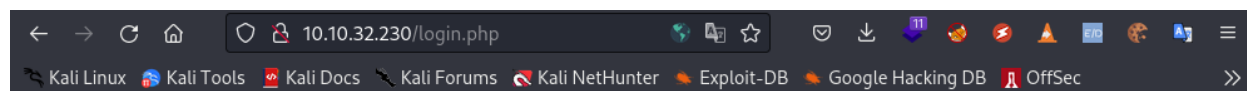
accessone

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:



24X7 System+

Login to Your Account

Enter your username & password to login

Username

Password

Login

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

SUMMARY
+

DIRB v2.22
By The Dark Raver

START_TIME: Tue Oct 25 10:02:29 2022
URL_BASE: http://10.10.32.230/
WORDLIST_FILES: /usr/share/dirb/wordlists/common.txt

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)
```

```
← → ↻ 🏠 🔒 10.10.32.230/robots.txt
🐞 Kali Linux 🌐 Kali Tools 📄 Kali Docs 🐞 Kali Forums
User-Agent: *
Disallow: /backup/chat.txt
```

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.

```
10.10.32.230/backup/chat.txt

Admin: I have finished setting up the new export2pdf tool.
Kate: Thanks, we will require daily system reports in pdf format.
Admin: Yes, I am updated about that.
Kate: Have you finished adding the internal server.
Admin: Yes, it should be serving flag from now.
Kate: Also Don't forget to change the creds, plz stop using your username as password.
Kate: Hello.. ?
```

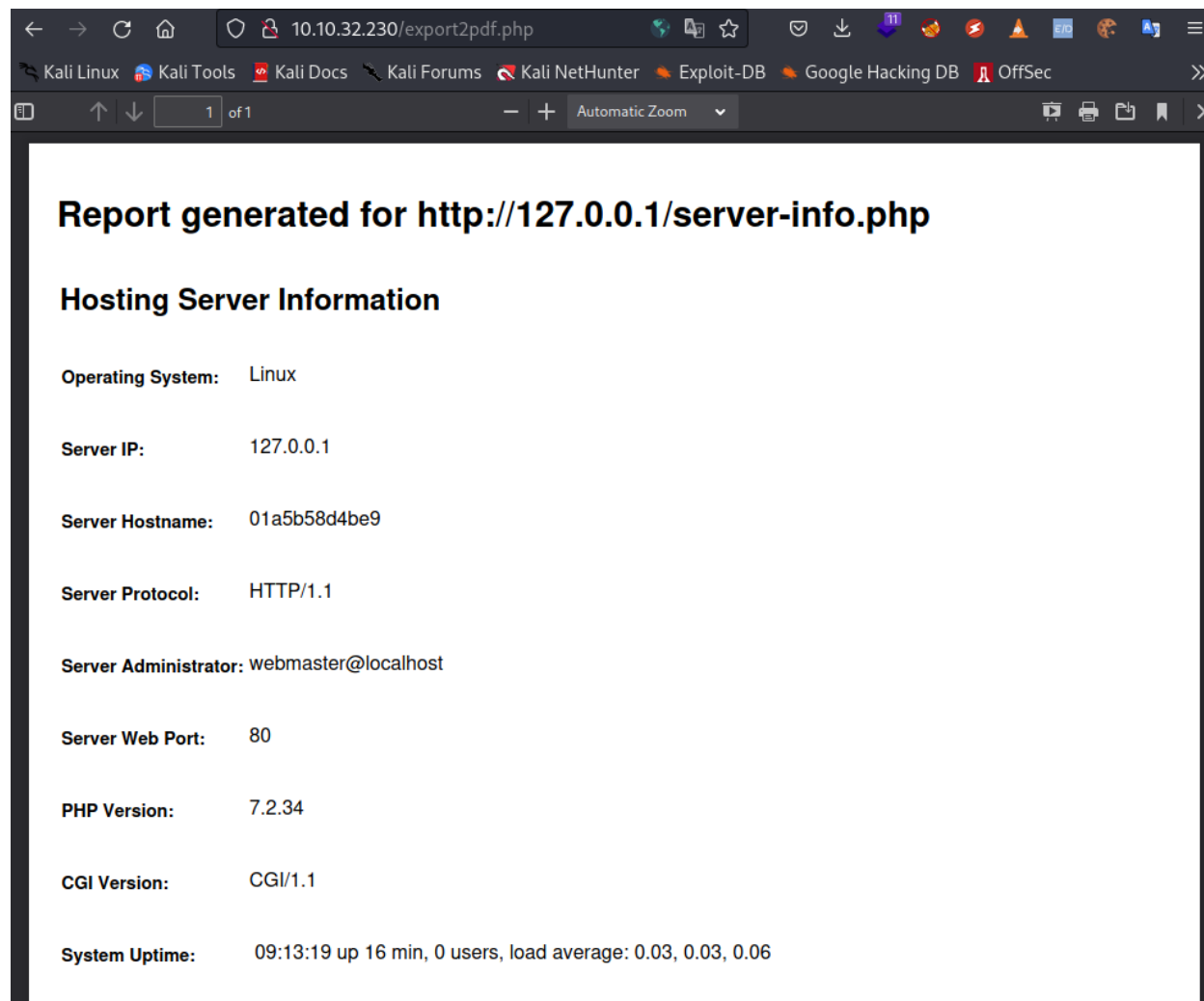
We successfully logged in as the admin account.

The screenshot shows the 24X7 System+ dashboard interface. The browser address bar displays `10.10.32.230/index.php`. The dashboard header includes the 24X7 System+ logo and a user profile for 'Admin'. The main content area is divided into several sections:

- Sales | Today:** Shows 145 sales with a 12% increase.
- Revenue | This Month:** Shows \$3,264 revenue with an 8% increase.
- Visitors | This Year:** Shows 3579 visitors with a 12% decrease.
- Reports /Today:** Includes a section for 'Hosting Server Information'.
- Recent Activity | Today:** A timeline of events including:
 - 32 min: System Stats Report Generated.
 - 56 min: Recovered from unexpected downtime.
 - 2 hrs: System Stats Report Generated.
 - 1 day: Internal pages hosted at `/internal/admin.php`. It contains the system flag.
 - 2 days: System Stats Report Generated.
 - 4 weeks: 24X7 System+ Installed on the server.

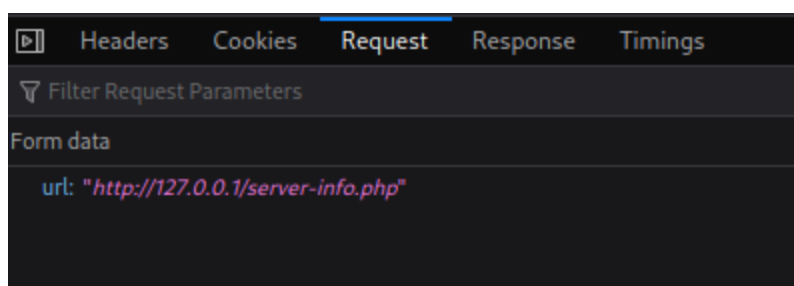
we can export a pdf report from the dashboard so we take a look to see what if anything useful we can find.

Exported pdf:

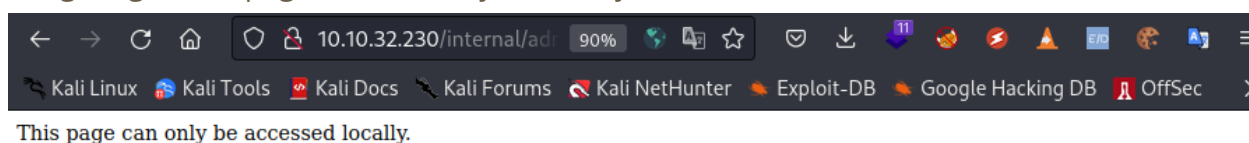


looking at this we have an internal ip and the ability to export to PDF using export2pdf.php this should allow us to possibly export the flag file we are looking for Via SSRF if we can find it. we can see the export2pdf.php request is a post request using the url parameter:

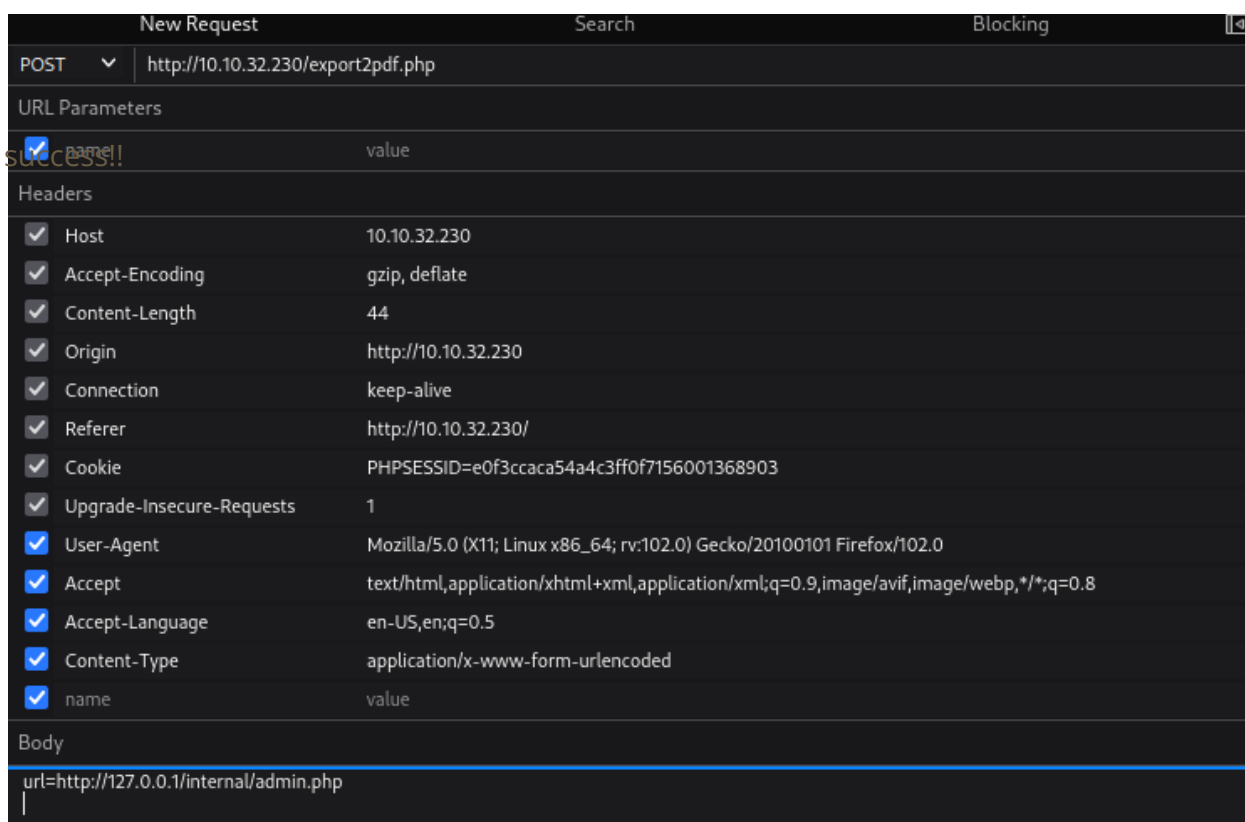
200	POST	10.10.32.230	export2pdf.php	document	pdf	7.74 KB	7.30 KB
404	GET	10.10.32.230	favicon.ico	img	html	cached	274 B



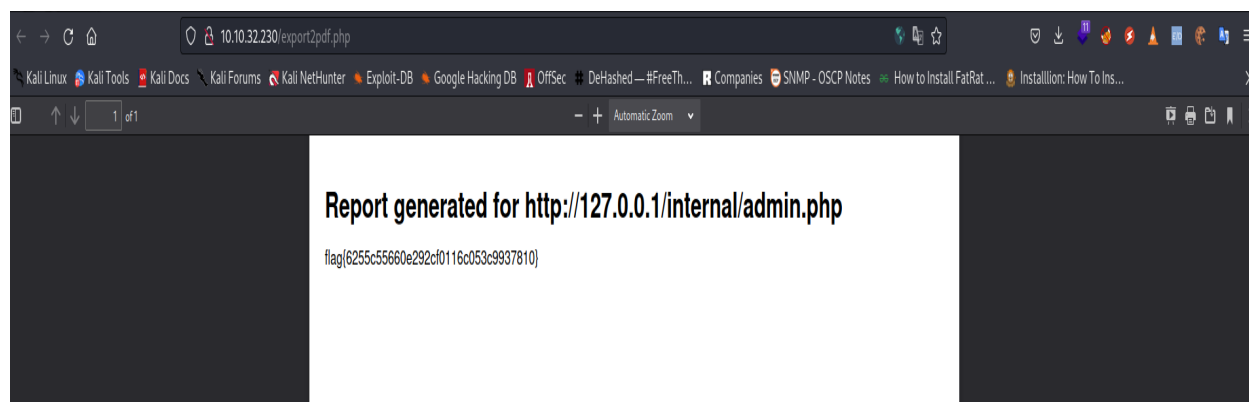
we could fuzz this using a fuzzer like ffuf but i noted earlier that our DIRB scan found something interesting within an internal directory called admin.php we can see by navigating to this page that it is only internally accessible or is it?:



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.