

ISSACK WAITHAKA
cs-sa07-24085

Introduction

- We are going to learn about the ffuf tool for web fuzzing.
- Fuzzing is testing technique that sends various inputs to an interface to see how it reacts
- We use wordlists which contains commonly used words for web directories

ffuf

- It has only two options, The -w for wordlists and -u for the url

Questions

1.

Target(s): 94.237.60.55:52423 🚩

Life Left: 68 minute(s)

+ 0 🧩 In addition to the directory we found above, there is another directory that can be found. What is it?

forum

Submit Hint

```
(dylan@kali) [/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-small.txt:FUZZ -u http://94.237.60.55:52423/FUZZ

This is the command I used

v2.1.0-dev

:: Method      : GET
:: URL         : http://94.237.60.55:52423/FUZZ
:: Wordlist     : FUZZ: /usr/share/wordlists/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

# directory-list-2.3-small.txt [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 153ms]
# [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 154ms]
# or send a letter to Creative Commons, 171 Second Street, [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 153ms]
# Attribution-Share Alike 3.0 License. To view a copy of this [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 154ms]
# [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 152ms]
# forum [Status: 301, Size: 321, Words: 20, Lines: 10, Duration: 152ms]
# on at least 3 different hosts [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 674ms]
# [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 1677ms]
# [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 3684ms]
# Suite 300, San Francisco, California, 94105, USA. [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 3684ms]
# Priority-ordered case-sensitive list, where entries were found [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 3685ms]
# blog [Status: 301, Size: 320, Words: 20, Lines: 10, Duration: 3685ms]
# license, visit http://creativecommons.org/licenses/by-sa/3.0/ [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 3687ms]
# This work is licensed under the Creative Commons [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 4690ms]
# Copyright 2007 James Fisher [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 4690ms]
# [Status: 200, Size: 986, Words: 423, Lines: 56, Duration: 4690ms]
:: Progress: [2665/87664] :: Job [1/1] :: 262 req/sec :: Duration: [0:00:13] :: Errors: 0 ::
```

Page fuzzing

Questions

1.

Target(s): 94.237.60.55:52423

Life Left: 48 minute(s)

+1 Try to use what you learned in this section to fuzz the '/blog/' directory and find all pages. One of them should contain a flag. What is the flag?

HTB[bru73_f0r_c0mm0n_p455w0rd5]

Submit

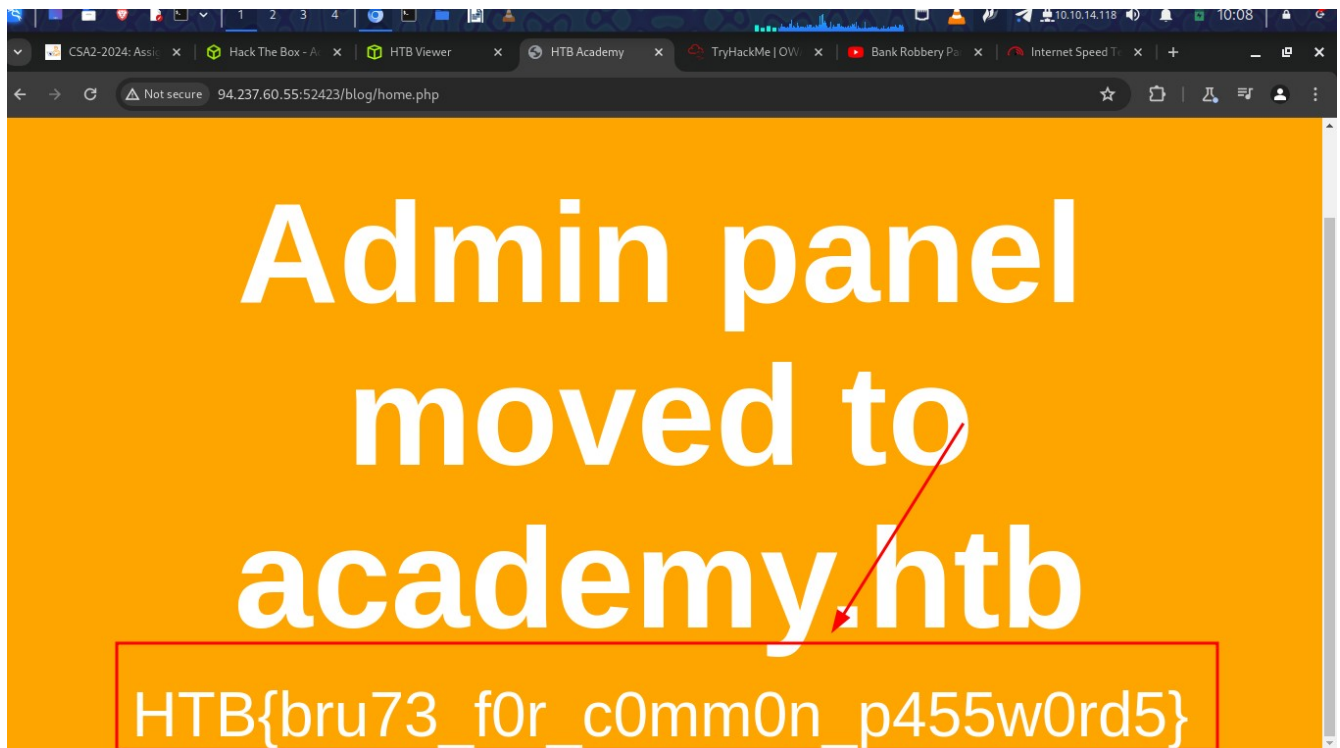
Hint

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-small.txt:FUZZ -u http://94.237.60.55:52423/blog/FUZZ.php

:: Method      : GET
:: URL         : http://94.237.60.55:52423/blog/FUZZ.php
:: Wordlist    : FUZZ: /usr/share/wordlists/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

# Suite 300, San Francisco, California, 94105, USA. [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 153ms]
# Attribution-Share Alike 3.0 License. To view a copy of this [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 153ms]
# license, visit http://creativecommons.org/licenses/by-sa/3.0/ [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 153ms]
# Priority-ordered case-sensitive list, where entries were found [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 153ms]
# [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 152ms]
# Copyright 2007 James Fisher [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 1643ms]
# [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 1642ms]
# [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 2644ms]
# or send a letter to Creative Commons, 171 Second Street, [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 2645ms]
# on at least 3 different hosts [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 3647ms]
# This work is licensed under the Creative Commons [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 3648ms]
# directory-list-2.3-small.txt [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 3647ms]
# [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 4652ms]
index [Status: 403, Size: 280, Words: 20, Lines: 10, Duration: 4654ms]
home [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 4656ms]
:: Progress: [11304/87664] :: Job [1/1] :: 256 req/sec :: Duration: [0:00:47] :: Errors: 0 ::
```

- I was able to get the two, Index.php was blank and I decided to use home.php where I was able to get the flag.

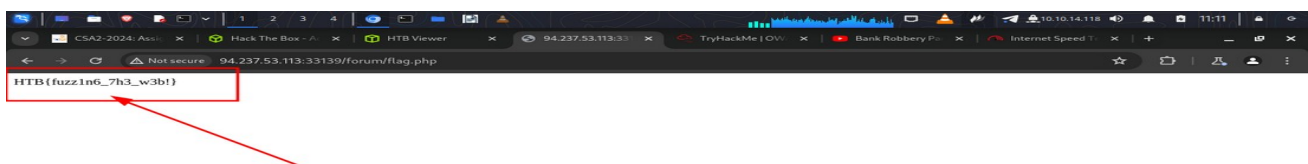
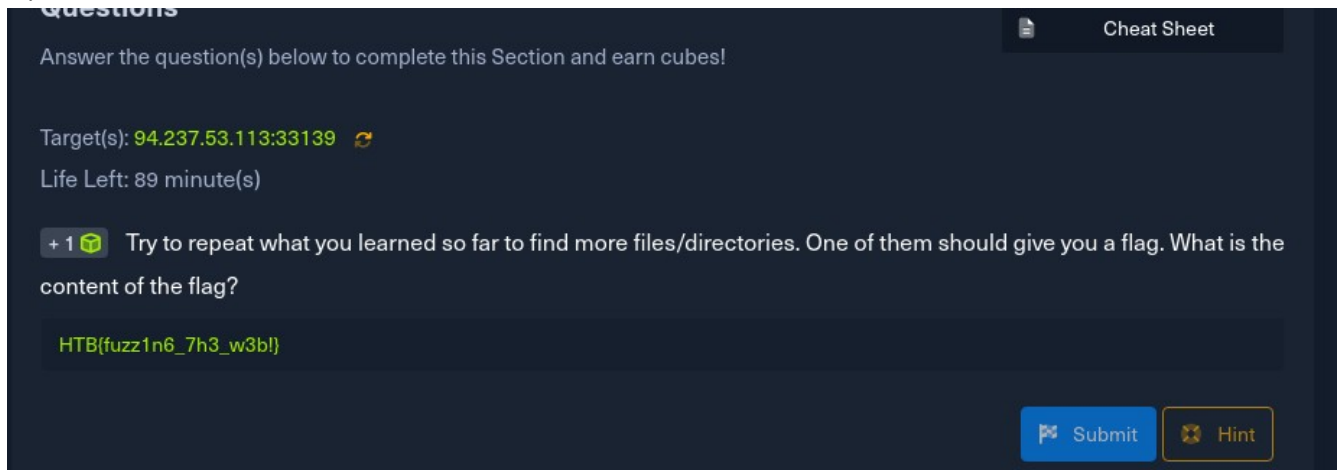


Recursive Fuzzing

- This helps us when we are dealing with dozens of subdirectories with each having files
- If We specify the recursion-depth it will only ffuf the directory and their sub-directories

Questions

1.



Sub-domain fuzzing

- A sub-domain is a website underlying another domain

Questions

1.

☐ Enable step-by-step solutions for all questions

Questions

Answer the question(s) below to complete this Section and earn cubes!

+0 Try running a sub-domain fuzzing test on 'inlanefreight.com' to find a customer sub-domain portal. What is the full domain of it?

customer.inlanefreight.com

Submit Hint

```
(dylan@kali) - [~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ -u http://FUZZ.inlanefreight.com/
```

Method : GET
URL : http://FUZZ.inlanefreight.com/
Wordlist : FUZZ: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt
Follow redirects : false
Calibration : false
Timeout : 10
Threads : 40
Matcher : Response status: 200-299,301,302,307,401,403,405,500

URI	Words	Lines	Duration
www	20	10	161ms
ns3	1	1	263ms
blog	1	1	285ms
support	1	1	294ms
my	1	1	222ms
customer	1	1	224ms

Questions

Try running a sub-domain fuzzing test on 'inlanefreight.com' to find a customer sub-domain portal. What is the full domain of it?

Vhost fuzzing

- Vhost is a sub-domain served from the same server and has the same IP such as a single IP could be serving.
- Vhost fuzzing will identify both public and non-public subdomains and Vhosts

Questions

Target(s): 94.237.53.113:40583 🔄

Life Left: 85 minute(s)

+0 📦 Try running a VHost fuzzing scan on 'academy.htb', and see what other VHosts you get. What other VHosts did you get?

test.academy.htb

Submit Hint

(dylan@kali) - [~/Downloads]

```
$ ffuf -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ -u http://94.237.53.113:40583/ -H 'Host: FUZZ.academy.htb' -ms 0
```

Try running a VHost fuzzing scan on 'academy.htb', and see what other VHosts you get?

test.academy.htb

v2.1.0-dev

```
:: Method      : GET
:: URL         : http://94.237.53.113:40583/
:: Wordlist    : FUZZ: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Header     : Host: FUZZ.academy.htb
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads    : 40
:: Matcher    : Response size: 0
```

admin [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 152ms]

test [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 416ms]

Progress: [4989/4989] :: Job [1/1] :: 259 req/sec :: Duration: [0:00:22] :: Errors: 0 ::

(dylan@kali) - [~/Downloads]

\$

Parameter Fuzzing – Get

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target(s): 94.237.53.113:40583 🔄

Life Left: 68 minute(s)

+0 📦 Using what you learned in this section, run a parameter fuzzing scan on this page. what is the parameter accepted by this webpage?

user

Submit

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u http://admin.academy.htb:40583/admin/admin.php?FUZZ=key -fs 798

Fuzzing POST

POST request and ... requests are not passed with the URL and cannot
symbol v2.1.0-dev its are passed in the data field within the HTTP request. Check out the ...
about ... requests:
:: Method : GET
:: URL : http://admin.academy.htb:40583/admin/admin.php?FUZZ=key
:: Wordlist (the -w flag): FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout : 10
:: Threads : 40
:: Matcher : Response status: 200-299,301,302,307,401,403,405,500
:: Filter can only be: Response size: 798 when marked as 'so, we can set that in'
user [Status: 200, Size: 783, Words: 221, Lines: 54, Duration: 153ms]
.. Progress: [6453/6453] :: Job [1/1] :: 260 req/sec :: Duration: [0:00:28] :: Errors: 0 ::

(dylan@kali)-[~/Downloads]
$
```

Value Fuzzing Questions

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target(s): 94.237.53.113:40583

Life Left: 51 minute(s)

+1 Try to create the 'ids.txt' wordlist, identify the accepted value with a fuzzing scan, and then use it in a 'POST' request with 'curl' to collect the flag. What is the content of the flag?

HTB(p4r4m373r_fuzz1n6_15_k3yl)

Submit Hint

a. first step was to create the wordlists


```
.. Progress: [6453/6453] :: Job [1/1] :: 260 req/sec :: Duration: [0:00:28] :: Errors: 0 ::

(dylan@kali)-[~/Downloads]
$ for i in $(seq 1 1000); do echo $i >> ids.txt; done

false
(dylan@kali)-[~/Downloads]
```

b. We then run ffuf to identify the parameter name


```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u http://admin.academy.htb:40583/admin/admin.php -X POST -d 'FUZZ=key' -H 'Content-Type: application/x-www-form-urlencoded' -fs 798
```




```
v2.1.0-dev
```

:: Method	: POST
:: URL	: http://admin.academy.htb:40583/admin/admin.php
:: Wordlist	: FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt
:: Header	: Content-Type: application/x-www-form-urlencoded
:: Data	: FUZZ=key
:: Follow redirects	: false
:: Calibration	: false
:: Timeout	: 10
:: Threads	: 40
:: Matcher	: Response status: 200-299,301,302,307,401,403,405,500
:: Filter	: Response size: 798

```
id [Status: 200, Size: 768, Words: 219, Lines: 54, Duration: 157ms]
user [Status: 200, Size: 783, Words: 221, Lines: 54, Duration: 160ms]
:: Progress: [6453/6453] :: Job [1/1] :: 60 req/sec :: Duration: [0:00:31] :: Errors: 0 ::
```

c. Now we used the parameter name against the parameter wordlists we created and we got id number as 73

```
(dylan@kali)-[~/Downloads]
$ ffuf -w ids.txt:FUZZ -u http://admin.academy.htb:40583/admin/admin.php -X POST -d 'id=FUZZ' -H 'Content-Type: application/x-www-form-urlencoded' -fs 768
```



```
v2.1.0-dev
```

:: Method	: POST
:: URL	: http://admin.academy.htb:40583/admin/admin.php
:: Wordlist	: FUZZ: /home/dylan/Downloads/ids.txt
:: Header	: Content-Type: application/x-www-form-urlencoded
:: Data	: id=FUZZ
:: Follow redirects	: false
:: Calibration	: false
:: Timeout	: 10
:: Threads	: 40
:: Matcher	: Response status: 200-299,301,302,307,401,403,405,500
:: Filter	: Response size: 768

```
73 [Status: 200, Size: 787, Words: 218, Lines: 54, Duration: 152ms]
:: Progress: [1000/1000] :: Job [1/1] :: 260 req/sec :: Duration: [0:00:05] :: Errors: 0 ::
```

d.
We used curl to get the flag


```

n: Progress: [1000/1000] :: Job [1/1] :: 250 req/sec :: Duration: [0:00:03] :: Errors: 0 ::
+10 Streak pts | Mark Complete & Next
(dylan@kali)-[~/Downloads]
$ curl http://admin.academy.htb:40583/admin/admin.php -X POST -d 'id=73' -H 'Content-Type: application/x-www-form-urlencoded'
<div class='center'><p>HTB{p4r4m373r_fuzz1n6_15_k3y!}</p></div>
<html>
<!DOCTYPE html>
<head>
<title>HTB Academy</title>

```

Skill Assessment – Web Fuzzing

1.

Questions

Answer the question(s) below to complete this Section and earn cubes!

Target(s): 83.136.252.57:54111

Life Left: 34 minute(s)

+1 Run a sub-domain/vhost fuzzing scan on '*.academy.htb' for the IP shown above. What are all the sub-domains you can identify? (Only write the sub-domain name)

archive, test, faculty

Submit

```

(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ -u http://83.136.252.57:54111/ -H 'Host: FUZZ.academy.htb' -ms 0

```

v2.1.0-dev

:: Method	: GET
:: URL	: http://83.136.252.57:54111/
:: Wordlist	: FUZZ: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Header	: Host: FUZZ.academy.htb
:: Follow redirects	: false
:: Calibration	: false
:: Timeout	: 10
:: Threads	: 40
:: Matcher	: Response size: 0

```

archive      [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 154ms]
test         [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 5093ms]
faculty      [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 160ms]
:: Progress: [4989/4989] :: Job [1/1] :: 253 req/sec :: Duration: [0:00:23] :: Errors: 0 ::

```

Questions

Target(s): 83.136.252.57:54111

Life Left: 34 minute(s)

+1 Run a sub-domain/vhost fuzzing scan on '*.academy.htb' for the IP shown above. What are all the sub-domains you can identify? (Only write the sub-domain name)

archive, test, faculty

2.

+ 1 📖 Before you run your page fuzzing scan, you should first run an extension fuzzing scan. What are the different extensions accepted by the domains?

php, phps, php7

Submit

Hint

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt:FUZZ -u http://test.academy.htb:54111/indexFUZZ

v2.1.0-dev

:: Method      : GET
:: URL         : http://test.academy.htb:54111/indexFUZZ
:: Wordlist     : FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout      : 10
:: Threads      : 40
:: Matcher      : Response status: 200-299,301,302,307,401,403,405,500

.phpps [Status: 403, Size: 284, Words: 20, Lines: 10, Duration: 153ms]
.php   [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 161ms]
:: Progress: [41/41] :: Job [1/1] :: 0 req/sec :: Duration: [0:00:00] :: Errors: 0 ::
```

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt:FUZZ -u http://faculty.academy.htb:54111/indexFUZZ

v2.1.0-dev

:: Method      : GET
:: URL         : http://faculty.academy.htb:54111/indexFUZZ
:: Wordlist     : FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout      : 10
:: Threads      : 40
:: Matcher      : Response status: 200-299,301,302,307,401,403,405,500

.php [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 153ms]
.php7 [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 158ms]
.phps [Status: 403, Size: 287, Words: 20, Lines: 10, Duration: 1088ms]
:: Progress: [41/41] :: Job [1/1] :: 20 req/sec :: Duration: [0:00:02] :: Errors: 0 ::
```

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt:FUZZ -u http://archive.academy.htb:54111/indexFUZZ

v2.1.0-dev

:: Method      : GET
:: URL         : http://archive.academy.htb:54111/indexFUZZ
:: Wordlist     : FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/web-extensions.txt
:: Follow redirects : false
:: Calibration : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200-299,301,302,307,401,403,405,500

.php [Status: 403, Size: 287, Words: 20, Lines: 10, Duration: 157ms]
.php [Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 160ms]
:: Progress: [41/41] :: Job [1/1] :: 9 req/sec :: Duration: [0:00:04] :: Errors: 0 ::
```

3,

Submit

Hint

+ 2 One of the pages you will identify should say "You don't have access!". What is the full page URL?

Submit

Hint

I ffuf the the faculty directories and got the courses directory in it.

```
* FUZZ: #.php
[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 160ms]
| URL | http://faculty.academy.htb:54111/# Suite 300, San Francisco, California, 94105, USA.
* FUZZ: # Suite 300, San Francisco, California, 94105, USA.

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 159ms]
| URL | http://faculty.academy.htb:54111/# Priority-ordered case-sensitive list, where entries were found
* FUZZ: # Priority-ordered case-sensitive list, where entries were found

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 159ms]
| URL | http://faculty.academy.htb:54111/# Priority-ordered case-sensitive list, where entries were found.php
* FUZZ: # Priority-ordered case-sensitive list, where entries were found.php

[Status: 301, Size: 337, Words: 20, Lines: 10, Duration: 152ms]
| URL | http://faculty.academy.htb:54111/courses
| -> http://faculty.academy.htb:54111/courses/
* FUZZ: courses

[INFO] Adding a new job to the queue: http://faculty.academy.htb:54111/courses/FUZZ
[WARN] Caught keyboard interrupt (Ctrl-C)
[INFO] Starting queued job on target: http://faculty.academy.htb:54111/courses/FUZZ
[WARN] Caught keyboard interrupt (Ctrl-C)
```

I went through to scan the courses directory to see the files available in it.

I tried a bunch of the results and only one of them turned out

```
[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 161ms]
| URL | http://faculty.academy.htb:31500/courses/# or send a letter to Creative Commons, 171 Second Street,.php7
* FUZZ: # or send a letter to Creative Commons, 171 Second Street,.php7

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 162ms]
| URL | http://faculty.academy.htb:31500/courses/# Suite 300, San Francisco, California, 94105, USA.
* FUZZ: # Suite 300, San Francisco, California, 94105, USA.

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 161ms]
| URL | http://faculty.academy.htb:31500/courses/# Suite 300, San Francisco, California, 94105, USA..php7
* FUZZ: # Suite 300, San Francisco, California, 94105, USA..php7

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 162ms]
| URL | http://faculty.academy.htb:31500/courses/#
* FUZZ: #

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 164ms]
| URL | http://faculty.academy.htb:31500/courses/#.phps
* FUZZ: #.phps

[Status: 200, Size: 0, Words: 1, Lines: 1, Duration: 167ms]
| URL | http://faculty.academy.htb:31500/courses/index.php
* FUZZ: index.php

[Status: 200, Size: 774, Words: 223, Lines: 53, Duration: 156ms]
| URL | http://faculty.academy.htb:31500/courses/linux-security.php7
* FUZZ: linux-security.php7

:: Progress: [30529/350656] :: Job [1/1] :: 409 req/sec :: Duration: [0:00:43] :: Errors: 15 ::
```

4.

+ 1 🗨 In the page from the previous question, you should be able to find multiple parameters that are accepted by the page. What are they?

user, username

Submit Hint

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u http://faculty.academy.htb:31500/courses/linux-security.php? -X POST -d 'FUZZ=ke' -H 'Content-Type: application/x-www-form-urlencoded' -fs 774

v2.1.0-dev

:: Method      : POST
:: URL         : http://faculty.academy.htb:31500/courses/linux-security.php?
:: Wordlist     : FUZZ: /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt
:: Header      : Content-Type: application/x-www-form-urlencoded
:: Data        : FUZZ=ke
:: Follow redirects : false
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200-299,301,302,307,401,403,405,500
:: Filter      : Response size: 774

user [Status: 200, Size: 780, Words: 223, Lines: 53, Duration: 157ms]
username [Status: 200, Size: 781, Words: 223, Lines: 53, Duration: 159ms]
:: Progress: [6453/6453] :: Job [1/1] :: 257 req/sec :: Duration: [0:00:28] :: Errors: 0 ::

(dylan@kali)-[~/Downloads]
```

5.

+ 2

Try fuzzing the parameters you identified for working values. One of them should return a flag. What is the content of the flag?

HTB(w3b_fuzz1n6_m4573r)

Submit

Hint

I was able to get the username

```
(dylan@kali)-[~/Downloads]
$ ffuf -w /usr/share/wordlists/seclists/Usernames/xato-net-10-million-usernames.txt:FUZZ -u http://faculty.academy.htb:31500/courses/linux-security.php? -X POST -d 'username=FUZZ' -H 'Content-Type: application/x-www-form-urlencoded' -fs 781 -t 1000

v2.1.0-dev

:: Method      : POST
:: URL         : http://faculty.academy.htb:31500/courses/linux-security.php?
:: Wordlist     : FUZZ: /usr/share/wordlists/seclists/Usernames/xato-net-10-million-usernames.txt
:: Header      : Content-Type: application/x-www-form-urlencoded
:: Data        : username=FUZZ
:: Follow redirects : false
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 1000
:: Matcher     : Response status: 200-299,301,302,307,401,403,405,500
:: Filter      : Response size: 781

Harry [Status: 200, Size: 773, Words: 218, Lines: 53, Duration: 159ms]
harry [Status: 200, Size: 773, Words: 218, Lines: 53, Duration: 153ms]
HARRY [Status: 200, Size: 773, Words: 218, Lines: 53, Duration: 157ms]
[WARN] Caught keyboard interrupt (Ctrl-C)
```

The I used curl to the flag

```
(dylan@kali)-[~/Downloads]
$ curl http://faculty.academy.htb:31500/courses/linux-security.php7 -X POST -d 'username=HARRY' -H 'Content-Type: application/x-www-form-urlencoded'
<div class='center'><p>HTB{w3b_fuzz1n6_m4573r}</p></div>
<html>
<!DOCTYPE html>

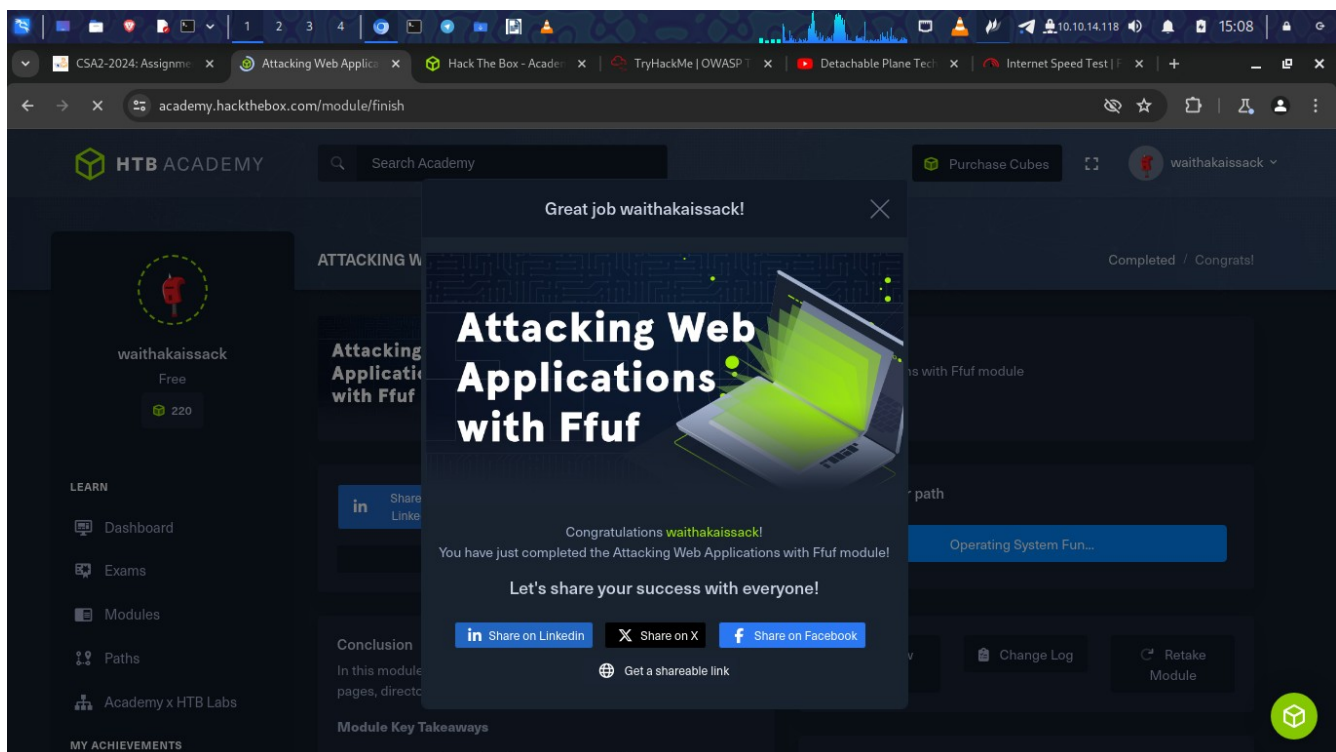
<head>
<title>HTB Academy</title>
<style>
*,
html {
margin: 0;
padding: 0;
border: 0;
}

html {
width: 100%;
height: 100%;
}

body {
width: 100%;
height: 100%;
position: relative;
background-color: #151D2B;
}

.center {
width: 100%;
height: 50%;
margin: 0;
position: absolute;
top: 50%;
left: 50%;
transform: translate(-50%, -50%);
color: white;
font-family: "Helvetica", Helvetica, sans-serif;
text-align: center;

```



<https://academy.hackthebox.com/achievement/798750/54>

Conclusion

I was able to learn about the ffuf tool which is helpful when conducting a web penetration testing. This tool is able to tell the current directories in the web browser and the files they contain. It is a very useful tool.