

模糊测试

主要的两个选项是 `-w` 用于单词列表和 `-u` 用于 URL

```

:: Method      : GET
:: URL         : http://SERVER_IP:PORT/FUZZ
:: Wordlist     : FUZZ: /opt/useful/seclists/Discovery/Web-Content/directory-list-2.3-small.txt
:: Follow redirects : false
:: Calibration   : false
:: Timeout     : 10

```

```
:: Threads          : 40
:: Matcher          : Response status: 200,204,301,302,307,401,403
```

<SNIP>

```
blog [Status: 301, Size: 326, Words: 20, Lines: 10]
:: Progress: [87651/87651] :: Job [1/1] :: 9739 req/sec :: Duration:
[0:00:09] :: Errors: 0 ::
```

页面模糊测试

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-
Content/web-extensions.txt:FUZZ <SNIP>
```

将我们的 **FUZZ** 关键字放在 **索引** 之后的扩展名位置

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-
Content/web-extensions.txt:FUZZ -u http://SERVER_IP:PORT/blog/indexFUZZ
```

```
/'__\ /'__\ /'__\
^ \_/ ^ \_/ _ _ ^ \_/
\ \ ,_ \ \ ,_ \ \ \ \ ,_ \
\ \ \_/ \ \ \_/ \ \ \_/ \ \ \_/
\ \_ \ \ \_ \ \ \_/ \ \_ \
 \_/ \_/ \_/ \_/
```

v1.1.0-git

```
:: Method          : GET
:: URL             : http://SERVER_IP:PORT/blog/indexFUZZ
:: Wordlist         : FUZZ: /opt/useful/seclists/Discovery/Web-
Content/web-extensions.txt
:: Follow redirects : false
:: Calibration      : false
:: Timeout          : 10
:: Threads          : 5
:: Matcher          : Response status: 200,204,301,302,307,401,403
```

```
.php [Status: 200, Size: 0, Words: 1, Lines: 1]
.php [Status: 403, Size: 283, Words: 20, Lines: 10]
```

```
:: Progress: [39/39] :: Job [1/1] :: 0 req/sec :: Duration: [0:00:00] ::  
Errors: 0 ::
```

使用 `.php` 作为扩展名，将 `FUZZ` 关键字放在文件名应该在的位置，并使用我们用于模糊目录的相同单词列表：

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-Content/directory-list-2.3-small.txt:FUZZ -u http://SERVER_IP:PORT/blog/FUZZ.php
```

v1.1.0-git

```

:: Method          : GET
:: URL             : http://SERVER_IP:PORT/blog/FUZZ.php
:: Wordlist         : FUZZ: /opt/useful/seclists/Discovery/Web-
Content/directory-list-2.3-small.txt
:: Follow redirects : false
:: Calibration     : false
:: Timeout         : 10
:: Threads         : 40
:: Matcher         : Response status: 200,204,301,302,307,401,403

```

```
index [Status: 200, Size: 0, Words: 1, Lines: 1]
REDACTED [Status: 200, Size: 465, Words: 42, Lines: 15]
:: Progress: [87651/87651] :: Job [1/1] :: 5843 req/sec :: Duration:
[0:00:15] :: Errors: 0 ::
```

递归模糊测试

在 `ffuf` 中，我们可以使用 `-recursion` 标志启用递归扫描，也可以使用 `-recursion-depth` 标志指定深度。如果我们指定 `-recursion-depth 1`，它只会模糊测试主目录及其直接子目录。如果标识了任何子子目录（如 `/login/user`，它不会对页面进行模糊测试）。在 `ffuf` 中使用递归时，我们可以使用 `-e .php` 指定我们的扩展

标志 `-v` 来输出完整的 URL

Recursive Scanning 递归扫描

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-Content/directory-list-2.3-small.txt:FUZZ -u http://SERVER_IP:PORT/FUZZ -recursion -recursion-depth 1 -e .php -v
```

```
/'__\  /'__\  /'__\
^ \_/_/ ^ \_/_/  _  _  ^ \_/_/
\ \ ,_\\ \ \ ,_\\ \ \ ,_\\ \ \ ,_\\
\ \ \_/_ \ \ \_/_ \ \ \_/_ \ \ \_/_
\ \ \_/_ \ \ \_/_ \ \ \_/_ \ \ \_/_
\ \ \_/_ \ \ \_/_ \ \ \_/_ \ \ \_/_
```

v1.1.0-git

```
:: Method          : GET
:: URL             : http://SERVER_IP:PORT/FUZZ
:: Wordlist        : FUZZ: /opt/useful/seclists/Discovery/Web-Content/directory-list-2.3-small.txt
:: Extensions     : .php
:: Follow redirects : false
:: Calibration     : false
:: Timeout        : 10
:: Threads        : 40
:: Matcher        : Response status: 200,204,301,302,307,401,403
```

```
[Status: 200, Size: 986, Words: 423, Lines: 56] | URL |
http://SERVER_IP:PORT/
* FUZZ:
```

```
[INFO] Adding a new job to the queue: http://SERVER_IP:PORT/forum/FUZZ
[Status: 200, Size: 986, Words: 423, Lines: 56] | URL |
http://SERVER_IP:PORT/index.php
* FUZZ: index.php
```

```
[Status: 301, Size: 326, Words: 20, Lines: 10] | URL |
http://SERVER_IP:PORT/blog | → | http://SERVER_IP:PORT/blog/
* FUZZ: blog
```

< ... SNIP ... >

< ... SNIP ... >



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__\\ __\\ __\\ __\\

v1.1.0-git

```
:: Method          : GET
:: URL             : https://FUZZ.inlanefreight.com/
:: Wordlist         : FUZZ:
/usr/share/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Follow redirects : false
:: Calibration      : false
:: Timeout          : 10
:: Threads          : 40
:: Matcher          : Response status:
200,204,301,302,307,401,403,405,500
```

```
[Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 381ms]
* FUZZ: support
```

```
[Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 385ms]
* FUZZ: ns3
```

```
[Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 402ms]
* FUZZ: blog
```

```
[Status: 301, Size: 0, Words: 1, Lines: 1, Duration: 180ms]
* FUZZ: my
```

```
[Status: 200, Size: 22266, Words: 2903, Lines: 316, Duration: 589ms]
* FUZZ: www
```

< ... SNIP ... >

```
Chenduoduo@htb[/htb]$ ffuf -w
/opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ
-u http://FUZZ.academy.htb/
```

/'__\\ /'__\\ /'__\\
^ _\\ ^ _\\ _ _ ^ _\\
\\ \\ ,_\\ \\ ,_\\ \\ _\\ _\\ _\\ _\\ ,_\\
\\ \\ _\\ \\ _\\ ^ _\\ _\\ _\\ _\\

```

      \ \_ \   \ \_ \   \ \_ \   \ \_ \
      \ \_ /   \ \_ /   \ \_ /   \ \_ /

v1.1.0-git

:: Method           : GET
:: URL              : https://FUZZ.academy.htb/
:: Wordlist          : FUZZ:
/opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Follow redirects : false
:: Calibration       : false
:: Timeout           : 10
:: Threads           : 40
:: Matcher           : Response status: 200,204,301,302,307,401,403

:: Progress: [4997/4997] :: Job [1/1] :: 131 req/sec :: Duration:
[0:00:38] :: Errors: 4997 ::

```

Vhost 模糊测试

要扫描 VHosts，而无需手动将整个单词列表添加到我们的 `/etc/hosts`，我们将模糊测试 HTTP 标头，特别是 `Host:` 标头。为此，我们可以使用 `-H` 标志来指定标头，并在其中使用 `FUZZ` 关键字，如下所示：

```

Chenduoduo@htb[/htb]$ ffuf -w
/opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt:FUZZ
-u http://94.237.54.192:38862/ -H 'Host: FUZZ.academy.htb'

```

```

      /'__ \   /'__ \   /'__ \
      ^ \_ /   ^ \_ /   ^ \_ /
      \ \ ,_ \ \ \ ,_ \ \ \ ,_ \
      \ \_ /   \ \_ /   \ \_ /
      \ \_ \   \ \_ \   \ \_ \
      \ \_ /   \ \_ /   \ \_ /

v1.1.0-git

:: Method           : GET
:: URL              : http://academy.htb:PORT/
:: Wordlist          : FUZZ:

```



```
:: Wordlist          : FUZZ:
/opt/useful/seclists/Discovery/DNS/subdomains-top1million-5000.txt
:: Header           : Host: FUZZ.academy.htb
:: Follow redirects : false
:: Calibration      : false
:: Timeout          : 10
:: Threads          : 40
:: Matcher          : Response status: 200,204,301,302,307,401,403
:: Filter           : Response size: 900
```

< ... SNIP ... >

```
admin [Status: 200, Size: 0, Words: 1, Lines: 1]
:: Progress: [4997/4997] :: Job [1/1] :: 1249 req/sec :: Duration:
[0:00:04] :: Errors: 0 ::
```

注 1: 别忘了将“admin.academy.htb”添加到“/etc/hosts”中。

我们看到我们可以访问该页面，但我们得到一个空页面，这与我们使

用 `academy.htb` 得到的页面不同，因此确认这确实是一个不同的 VHost。我们甚至可

以访问 `https://admin.academy.htb:PORT/blog/index.php`，我们会看到我们会得

到一个 `404 PAGE NOT FOUND`，这证实我们现在确实是在不同的 VHost 上。

```
codewidthme@htb[/htb]$ ffuf -w /usr/share/SecLists/Discovery/DNS/subdomains-top1million-
5000.txt:FUZZ -u http://academy.htb:55059/ -H 'Host: FUZZ.academy.htb' -fs 986
```

参数模糊测试

GET

首先从 `GET` 请求的模糊测试开始，这些请求通常在 URL 之后传递，带有 `?` 符号，例如：

- ◆ `http://admin.academy.htb:PORT/admin/admin.php?param1=key` .

因此，我们所要做的就是将上面示例中的 `param1` 替换为 `FUZZ` 并重新运行我们的扫描。然

而，在我们开始之前，我们必须选择一个合适的单词列表。 `SecLists` 再次

在 `/opt/useful/seclists/Discovery/Web-Content/burp-parameter-names.txt` 这

样，我们就可以运行扫描了。

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-
Content/burp-parameter-names.txt:FUZZ -u
http://admin.academy.htb:PORT/admin/admin.php?FUZZ=key -fs xxx
```

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```
< ... SNIP ... > [Status: xxx, Size: xxx, Words: xxx,
Lines: xxx]
```

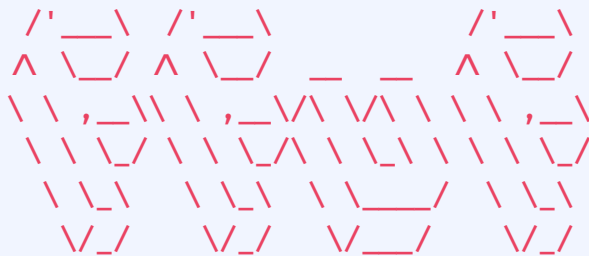
```
ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u "http://admin.academy.htb:40054/admin/admin.php?FUZZ=key" -fs 798
```

POST

要使用 `ffuf` 对 `数据` 字段进行模糊测试，我们可以使用 `-d` 标志，正如我们之前在 `ffuf -h` 的输出中看到的那样。我们还必须添加 `-X POST` 来发送 `POST` 请求。

提示：在 PHP 中，“POST”数据“content-type”只能接受“application/x-www-form-urlencoded”。因此，我们可以在“ffuf”中使用“-H 'Content-Type: application/x-www-form-urlencoded'”进行设置。

```
Chenduoduo@htb[/htb]$ ffuf -w /opt/useful/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u http://admin.academy.htb:PORT/admin/admin.php -X POST -d 'FUZZ=key' -H 'Content-Type: application/x-www-form-urlencoded' -fs xxx
```



v1.1.0-git

```
:: Method          : POST
:: URL             : http://admin.academy.htb:PORT/admin/admin.php
:: Wordlist         : FUZZ: /opt/useful/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: 200,204,301,302,307,401,403
:: Filter          : Response size: xxx
```

```
id [Status: xxx, Size: xxx, Words: xxx, Lines: xxx]
< ... SNIP ... >
```

Value 模糊测试

```
for i in $(seq 1 1000); do echo $i >> ids.txt; done
```

创建此单词列表的方法有很多种，从手动键入文件中的 ID，到使用 Bash 或 Python 编写脚本。最简单的方法是在 Bash 中使用以下命令，将 1-1000 中的所有数字写入文件：

```
Chenduoduo@htb[/htb]$ for i in $(seq 1 1000); do echo $i >> ids.txt; done
```

```
Chenduoduo@htb[/htb]$ cat ids.txt
```

```
1
2
3
4
5
6
< ... SNIP ... >
```

```
Chenduoduo@htb[/htb]$ ffuf -w ids.txt:FUZZ -u
http://admin.academy.htb:PORT/admin/admin.php -X POST -d 'id=FUZZ' -H
'Content-Type: application/x-www-form-urlencoded' -fs xxx
```

```

  /' _ \  /' _ \  /' _ \
 ^ \_ / ^ \_ /  _ _  ^ \_ /
 \ \ , _ \ \ \ , _ \ \ \ , _ \
  \ \_ / \ \_ / \ \_ / \ \_ /
   \ \_ /   \ \_ /   \ \_ /
    \ \_ /    \ \_ /    \ \_ /
```

v1.0.2

```
:: Method      : POST
:: URL         : http://admin.academy.htb:30794/admin/admin.php
:: Header      : Content-Type: application/x-www-form-urlencoded
:: Data        : id=FUZZ
:: Follow redirects : false
:: Calibration  : false
:: Timeout     : 10
:: Threads     : 40
:: Matcher     : Response status: 200,204,301,302,307,401,403
:: Filter      : Response size: xxx
```

```
< ... SNIP ... > [Status: xxx, Size: xxx, Words: xxx,
Lines: xxx]
```

```
curl -X POST http://admin.academy.htb:40054/admin/admin.php -d "id=73" -x  
http://127.0.0.1:8080
```

```
ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/directory-list-2.3-small.txt:FUZZ -u  
http://faculty.academy.htb:35963/FUZZ -recursion -recursion-depth 1 -e .php,.php7,.phps -fs  
287 -t 200
```

```
ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u  
http://faculty.academy.htb:35963/courses/linux-security.php7?FUZZ=key -fs 774
```

```
ffuf -w /usr/share/wordlists/seclists/Discovery/Web-Content/burp-parameter-names.txt:FUZZ -u  
http://faculty.academy.htb:35963/courses/linux-security.php7 -X POST -d 'FUZZ=key' -H  
'Content-Type: application/x-www-form-urlencoded' -fs 774
```

```
ffuf -w /usr/share/wordlists/seclists/Username/xato-net-10-million-usernames.txt:FUZZ -u  
http://faculty.academy.htb:35963/courses/linux-security.php7 -X POST -d 'username=FUZZ' -  
H 'Content-Type: application/x-www-form-urlencoded' -fs 781
```

```
curl http://faculty.academy.htb:35963/courses/linux-security.php7 -X POST -d  
'username=harry' -H 'Content-Type: application/x-www-form-urlencoded'
```