

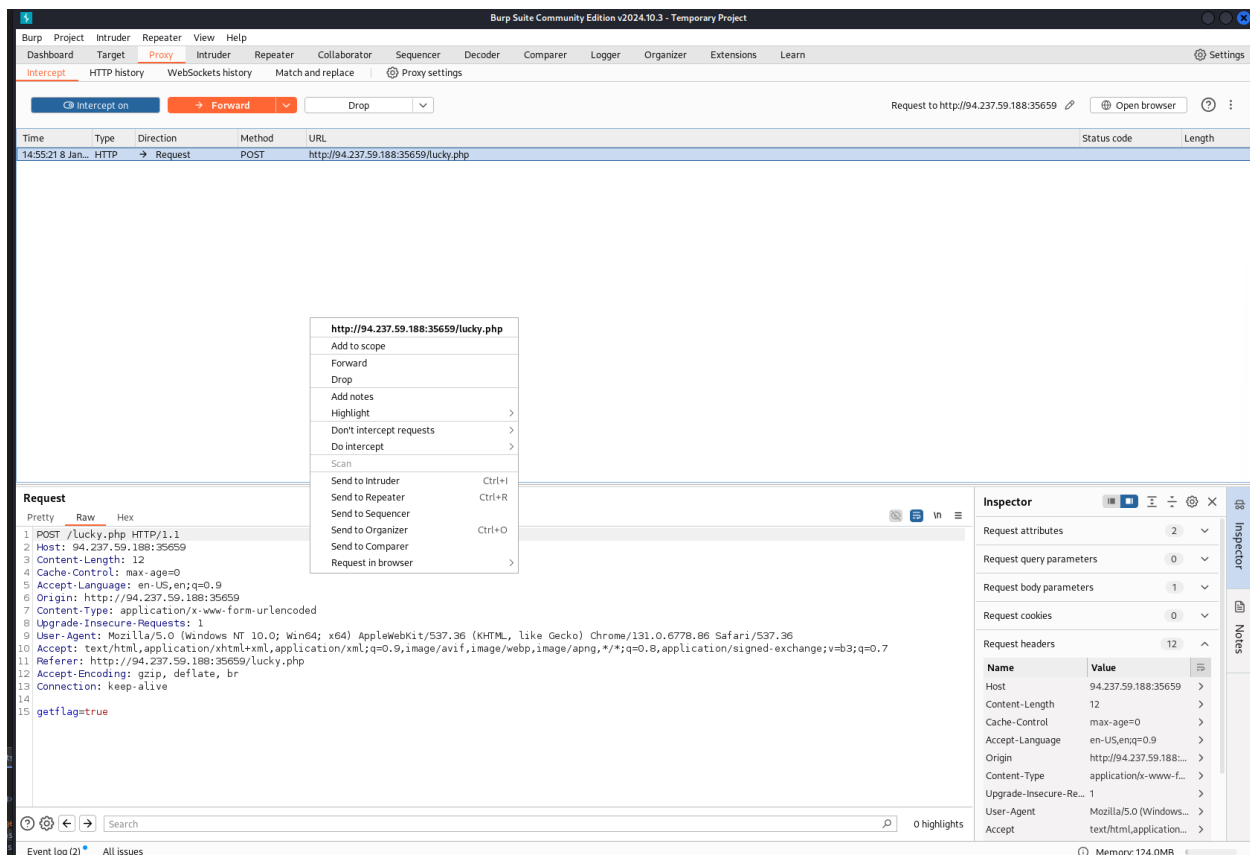
# Skills Assessment

The `/lucky.php` page has a button that appears to be disabled. Try to enable the button, and then click it to get the flag.

Opening the target ip/port to the page that I'm directed to, I find I cannot click the button. Changing the source by removing the disabled tag in the Button class definitions allowed me to click it.

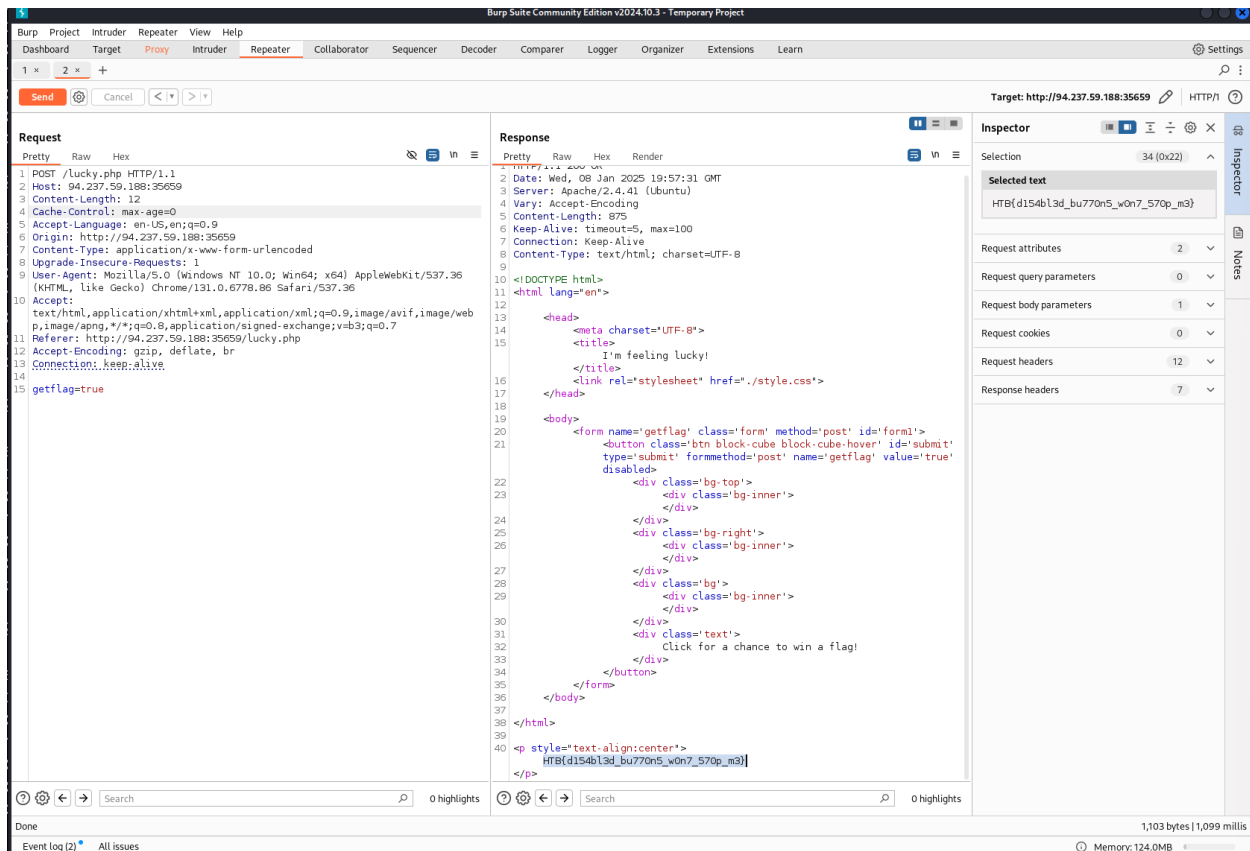
I made sure to have Burp up and running before then.

I right clicked on that request and sent it to repeater



Right clicked on the post request in repeater and then clicked on copy request as curl command

Clicking the send button on that post request multiple times yo do get the flag in the body of the servers response



I fiddled around with trying to copy the post request as curl and then using a bash loop to automatically send the post request x number of times. I wasn't able to get this to work in the way I wanted as I was only receiving the HTTP response headers, and not the bodies in the server responses to my curl command.

curl command:

```
curl --path-as-is -i -s -k -X $'POST' \
-H $'Host: 94.237.59.188:35659' -H $'Content-Length: 12' -H
--data-binary $'getflag=true' \
$'http://94.237.59.188:35659/lucky.php'
```

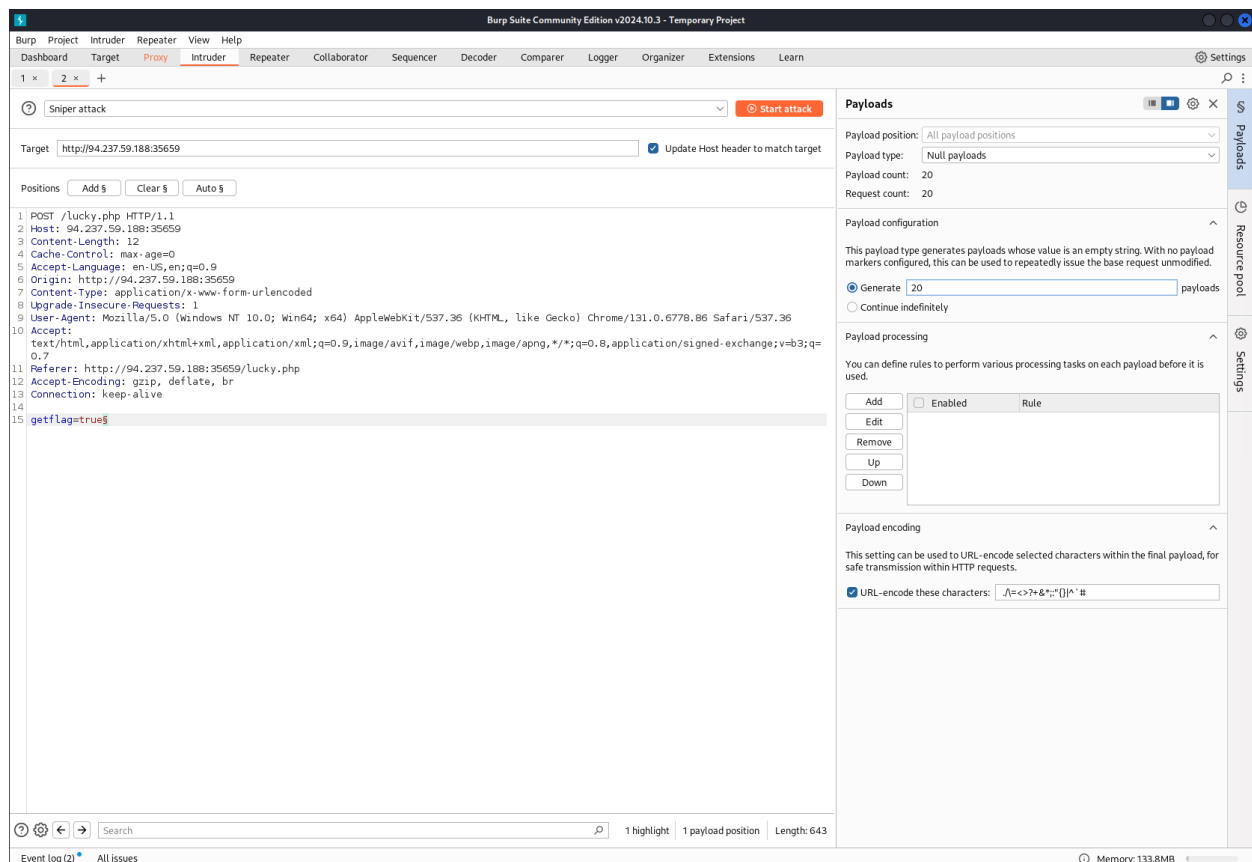
```
-XHTTP/1.1 200 OK
Date: Wed, 08 Jan 2025 20:13:14 GMT
Server: Apache/2.4.41 (Ubuntu)
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 338
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
```

```
little bash loop to run that 10 times
for i in {1..10}; do
curl --path-as-is -i -s -k -w -X '$POST' \
    -H '$Host: 94.237.59.188:35659' -H '$Content-Length: 12' -H
    --data-binary '$getflag=true' \
    '$http://94.237.59.188:35659/lucky.php'
done
```

Another means of automation I found doing some research online was using intruder with a null payload to just send the same request x number of times and that did end up working as a means of automation

On the repeater screen, right click on the post request and send to intruder

Add a marker for the payload anywhere to get the options to come up



In this instance I told it to send the post request 20 times

Then in the attack window you can just sort by length and the different size page will be the one with the added flag text making it bigger and you can just look at the response (not the request window) to get the flag

7. Intruder attack of http://94.237.59.188:35659

Attack Save

Results Positions

Intruder attack results filter: Showing all items

Request	Payload	Status code	Response received	Error	Timeout	Length	Comment
0		200	99			1036	
1	null	200	101			1036	
2	null	200	98			1103	
3	null	200	98			1036	
4	null	200	97			1036	
5	null	200	102			1036	
6	null	200	102			1036	
7	null	200	98			1036	
8	null	200	98			1036	
9	null	200	98			1036	

Request Response

Pretty Raw Hex Render

```

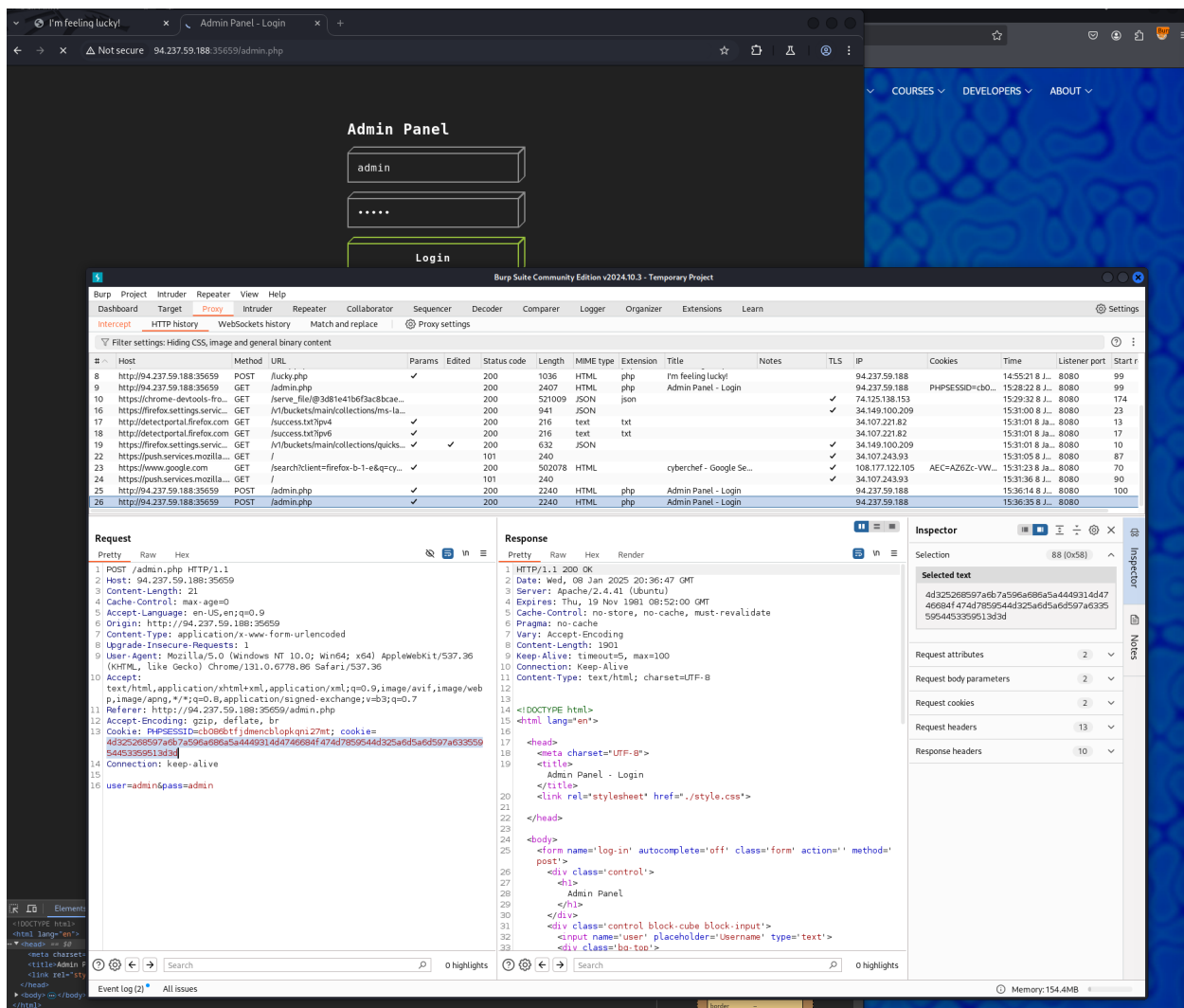
21 <button class='btn block-cube block-cube-hover' id='submit' type='submit' formmethod='post' name='getflag' value='true' disabled>
22 <div class='bg-top'>
23 <div class='bg-inner'>
24 </div>
25 <div class='bg-right'>
26 <div class='bg-inner'>
27 </div>
28 <div class='bg'>
29 <div class='bg-inner'>
30 </div>
31 <div class='text'>
32 Click for a chance to win a flag!
33 </div>
34 </button>
35 </form>
36 </body>
37 </html>
38
39
40 <p style='text-align:center'>
  HTB{d154b13d_bu770n5_w0n7_570p_m3}
  </p>

```

0 highlights

The /admin.php page uses a cookie that has been encoded multiple times. Try to decode the cookie until you get a value with 31-characters. Submit the value as the answer.

Making sure my proxy is set up to intercept and then visiting the admin page



Putting that string into cyber chef and playing around with it for a bit till I determine it to be hexadecimal and then it becomes apparent its base64 encoded from the ==. Chefchef is nice because it tells you the length at the bottom of the output as well. It being 31 marks we've likely found the answer

Operations440

Search...

Favourites★

To Base64

From Base64

To Hex

From Hex

To Hexdump

From Hexdump

URL Decode

Regular expression

Entropy

Fork

Magic

Data format

Encryption / Encoding

Public Key

Arithmetic / Logic

Networking

Language

Utils

Date / Time

Extractors

Compression

Hashing

Code tidy

Forensics

Multimedia

Other

Flow control

Recipe

From Hex

Delimiter  
Auto

From Base64

Alphabet  
A-Za-z0-9+/=

☒ Remove non-alphabet chars

☐ Strict mode

STEP

BAKE!

☒ Auto Bake

Input

4d325268597a6b7a596a686a5a4449314d4746684f474d7859544d325a6d5a6d597a63355954453359513d3d

rec: 88 1 Tr Raw Bytes ← CRLF (detected)

Output

3dac93b8cd250aa8c1a36fffc79a17a

rec: 31 1 1ms Tr Raw Bytes ← CRLF (detected)

**Once you decode the cookie, you will notice that it is only 31 characters long, which appears to be an md5 hash missing its last character. So, try to fuzz the last character of the decoded md5 cookie with all alphanumeric characters, while encoding each request with the encoding methods you identified above. (You may use the "alphanum-case.txt" wordlist from Seclist for the payload)**

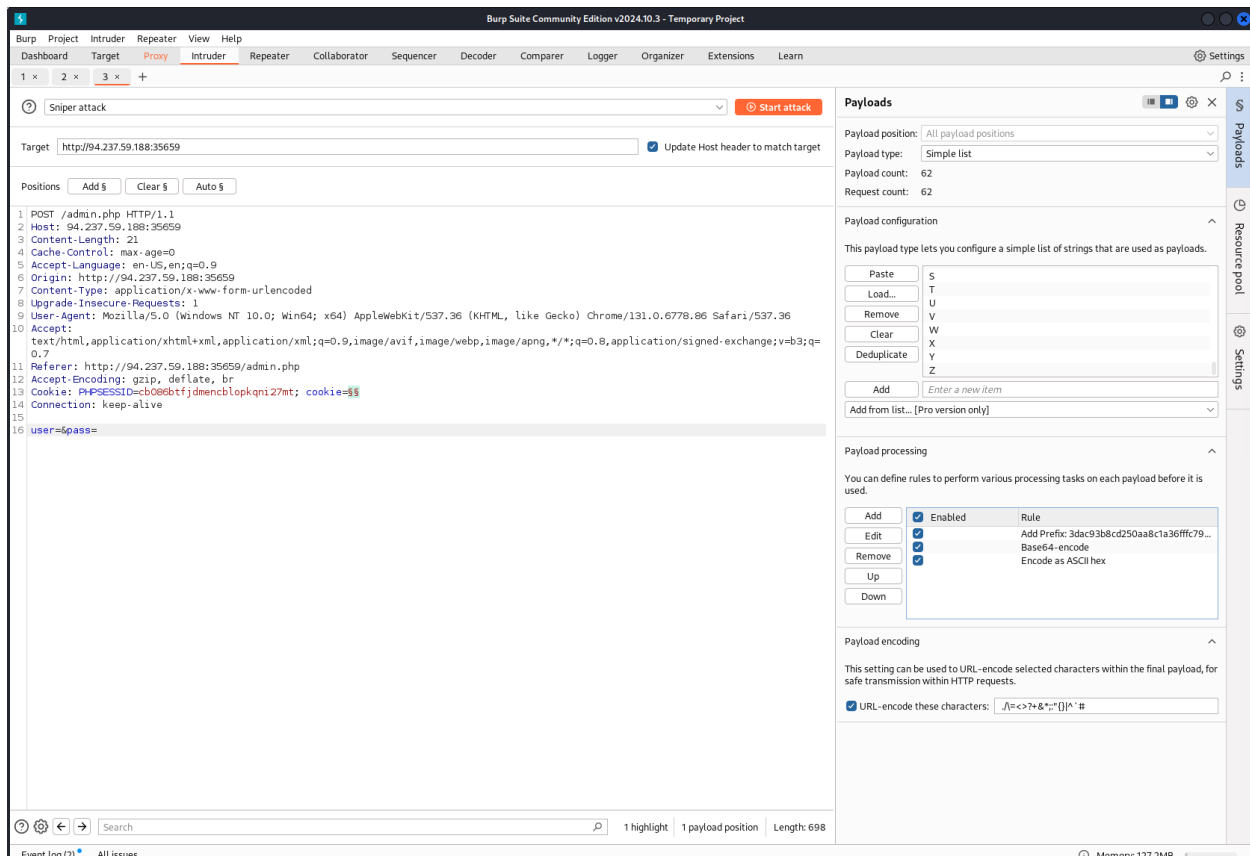
Using the same post request from before that I got the cookie in, I send that to intruder

Finding the location of the word list they wanted me to use

```
find /usr/share/wordlists/seclists/* -name alphanum-case.txt  
  
/usr/share/wordlists/seclists/Fuzzing/alphanum-case.txt
```

At this point I used intruder and inserted the decoded string as a prefix to the payload and encoded the entire payload doing the inverse of our cyber chef operation from the previous question.





Doing so, I get the flag in one of the request that vary in length by fuzzing for the right cookie.

You are using the **'auxiliary/scanner/http/coldfusion\_locale\_traversal'** tool within Metasploit, but it is not working properly for you. You decide to capture the request sent by Metasploit so you can manually verify it and repeat it. Once you capture the request, what is the **'XXXXX'** directory being called in **'/XXXXX/administrator/..'**?

Making sure my proxychains is still setup from earlier in the module (that last line being the added config, you can also uncomment out the quite line to make the tool less noisy)



Opening Metasploit, setting and configuring the module they wanted me to use

Opened up burp, and made sure to turn intercept on so it would catch this request going through its proxy port

```

Metasploit Documentation: https://docs.metasploit.com/

msf6 > use auxiliary/scanner/http/coldfusion_locale_traversal
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > set PROXY http:127.0.0.1:8080
[!] Unknown datastore option: PROXY. Did you mean Proxies?
PROXY => http:127.0.0.1:8080
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > show options

Module options (auxiliary/scanner/http/coldfusion_locale_traversal):



| Name        | Current Setting | Required | Description                                                                                            |
|-------------|-----------------|----------|--------------------------------------------------------------------------------------------------------|
| FILE        |                 | no       | File to retrieve                                                                                       |
| FINGERPRINT | false           | yes      | Only fingerprint endpoints                                                                             |
| Proxies     |                 | no       | A proxy chain of format type:host:port[,type:host:port][...]                                           |
| RHOSTS      |                 | yes      | The target host(s), see https://docs.metasploit.com/docs/using-metasploit/basics/using-metasploit.html |
| RPORT       | 80              | yes      | The target port (TCP)                                                                                  |
| SSL         | false           | no       | Negotiate SSL/TLS for outgoing connections                                                             |
| THREADS     | 1               | yes      | The number of concurrent threads (max one per host)                                                    |
| VHOST       |                 | no       | HTTP server virtual host                                                                               |



View the full module info with the info, or info -d command.

msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > set PROXIES http:127.0.0.1:8080
PROXIES => http:127.0.0.1:8080
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > run

[-] Msf::OptionValidateError One or more options failed to validate: RHOSTS.
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > set rhosts 94.237.59.188:35659
rhosts => 94.237.59.188:35659
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > run

[-] Msf::OptionValidateError The following options failed to validate:
[-] Invalid option RHOSTS: Host resolution failed: 94.237.59.188:35659
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > set rhosts 94.237.59.188
rhosts => 94.237.59.188
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > set rport 35659
rport => 35659
msf6 auxiliary(scanner/http/coldfusion_locale_traversal) > run

```

When you run the tool, burp should catch the request

Burp Suite Community Edition v2024.10.3 - Temporary Project

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

Intercept HTTP history WebSockets history Match and replace Proxy settings

Intercept on Forward Drop

Request to http://94.237.59.188:35659 Open browser

Time	Type	Direction	Method	URL	Status code	Length
16:20:35.8 Jan...	HTTP	→ Request	GET	http://94.237.59.188:35659/CFIDE/administrator/index.cfm		

**Request**

Pretty Raw Hex

```
1 GET /CFIDE/administrator/index.cfm HTTP/1.1
2 Host: 94.237.59.188:35659
3 User-Agent: Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/129.0.0.0 Safari/537.36 Edg/129.0.2792.79
4 Connection: keep-alive
5
6
```

**Inspector**

Request attributes 2

Request query parameters 0

Request body parameters 0

Request cookies 0

Request headers 3

0 highlights

Event log All issues

Memory: 114.5MB